

Module Catalogue

for the Subject

Economathematics

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Examination regulations version: 2016 Responsible: Faculty of Mathematics and Computer Science Responsible: Faculty of Management and Economics

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88|276|-|-|H|2016



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Stochastics and Statistics	10	42
Financial and Insurance Mathematics	10	55
Compulsory Electives Business Management and Economics	40	64
Economic Policy	20	65
Compulsory Core Electives	20	66
Strategic Marketing Management	20	84
Compulsory	10	85
Compulsory Core Electives	10	90
Industrial Management	20	107
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Learning Outcomes

German contents and learning outcome available but not translated yet.

Wissenschaftliche Befähigung

- Die Absolventinnen und Absolventen sind geschult in analytischem Denken, besitzen ein stark ausgeprägtes Abstraktionsvermögen, universell einsetzbare Problemlösungskompetenz und die Fähigkeit, komplexe ökonomische Zusammenhänge zu strukturieren.
- Die Absolventinnen und Absolventen sind in der Lage, sich selbständig mithilfe von Fachliteratur in aktuelle Forschungsgebiete der Mathematik und Wirtschaftswissenschaften einzuarbeiten.
- Die Absolventinnen und Absolventen sind in der Lage, ihre Kenntnisse, Ideen und Problemlösungen zu komplexen Sachverhalten einem Fachpublikum gegenüber verständlich zu präsentieren.
- Die Absolventinnen und Absolventen besitzen die für selbstständiges wissenschaftliches Arbeiten, insbesondere für ein Promotionsstudium erforderlichen Fachkenntnisse, Denk- und Arbeitsweisen und Methodenkenntnisse.
- Die Absolventinnen und Absolventen kennen die Regeln guter wissenschaftlicher Praxis und sind in der Lage, sie bei umfangreichen Arbeiten zu beachten.
- Die Absolventinnen und Absolventen besitzen weiterführende Kenntnisse aktueller Gebiete der Mathematik und Wirtschaftswissenschaften und können sicher mit fortgeschrittenen Methoden dieser Gebiete umgehen.
- Die Absolventinnen und Absolventen besitzen vertiefte Kenntnisse und Überblick über die aktuelle Forschung in mindestens einem Teilgebiet der Mathematik sowie zwei Teilgebieten der Wirtschaftswissenschaften.
- Die Absolventinnen und Absolventen können in aktuellen Gebieten der Wirtschaftswissenschaften mathematische Methoden zur Anwendung bringen.

Befähigung zur Aufnahme einer Erwerbstätigkeit

- Die Absolventinnen und Absolventen sind geschult in analytischem Denken, besitzen ein stark ausgeprägtes Abstraktionsvermögen, universell einsetzbare Problemlösungskompetenz und die Fähigkeit, komplexe ökonomische Zusammenhänge zu strukturieren.
- Die Absolventinnen und Absolventen sind in der Lage, ihre Kenntnisse, Ideen und Problemlösungen zielgruppenorientiert verständlich zu formulieren und zu präsentieren.
- Die Absolventinnen und Absolventen sind in der Lage, komplexe volks- und betriebswirtschaftliche Probleme zu erkennen, strukturieren und modellieren, mit mathematischen Methoden Lösungswege zu entwickeln und diese Ergebnisse zu interpretieren und bewerten.
- Die Absolventinnen und Absolventen besitzen ein ausgeprägtes Durchhaltevermögen bei der Lösung komplexer Probleme innerhalb eines vorgegeben Zeitrahmens.
- Die Absolventinnen und Absolventen sind in der Lage, konstruktiv und zielorientiert mit hoher Team- und Kommunikationsfähigkeit in Gruppen zu arbeiten und hierbei Verantwortung zu tragen.
- Die Absolventinnen und Absolventen sind in der Lage, sich neue Wissensgebiete und aktuelle Entwicklungen selbständig, effizient und systematisch zu erschließen.
- Die Absolventinnen und Absolventen besitzen die Fähigkeit, Projekte in interdisziplinär zusammengesetzten Teams im Bereich der Mathematik und Wirtschaftswissenschaften verantwortlich mitzugestalten.

Persönlichkeitsentwicklung

• Die Absolventinnen und Absolventen sind geschult in analytischem Denken, besitzen ein stark ausgeprägtes Abstraktionsvermögen, universell einsetzbare Problemlösungskompetenz und die Fähigkeit, komplexe ökonomische Zusammenhänge zu strukturieren.

Master's with 1 major Economathematics (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Wirtschaftsmathematik - 2016	page 11 / 590

- Die Absolventinnen und Absolventen sind in der Lage, in partizipativen Prozessen gestaltend mitzuwirken.
- Die Absolventinnen und Absolventen besitzen ein ausgeprägtes Durchhaltevermögen bei der Lösung komplexer Probleme innerhalb eines vorgegeben Zeitrahmens.
- Die Absolventinnen und Absolventen sind in der Lage, komplexe Ideen und Lösungsvorschläge allgemeinverständlich zu formulieren und professionell zu präsentieren.

Julius-Maxir

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Abbreviations used

Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

13-Jan-2016 (2016-3)

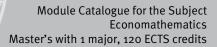
This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.



Compulsory Electives Mathematics

(40 ECTS credits)





Applied Mathematics

(ECTS credits)

Module title			Abbreviation			
Applied Analysis 10-M=AAAN-161-m01				01		
Module coordinator		Module offered by				
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i i		
1 seme	ster	graduate				
Conten	ts					
theory particu theory Recom	of Hilbo lar FEN of ellip mende	y of functional analysis ert spaces and Fourier a I methods), principles o tic, parabolic and hype d previous knowledge:	nalysis, spectral theor f functional analysis, f bolic partial differenti	y and quantum mech function spaces, emb al equations with me	nanics, numerical m bedding theorems, c thods from function	ethods (in ompactness,
		h the contents of the m	odule "Functional Ana	lysis" is strongly reco	ommended.	
The stu to esta	ident is blish a	ning outcomes acquainted with the fu connection between hi ther natural and engine	s/her acquired skills a			
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (4) + Module		t in: German and/or Eng	glish			
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) oral c) oral Langua	examir examin Ige of a ment o	mination (approx. 90 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	each (approx. 20 mini of 2, 15 minutes per c English	utes) or andidate)	ıbsequent semester	
Allocat						
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	immes)		
Module		ve in				
Master Master Master Master	's degr 's degr 's degr 's degr	ee (1 major) Mathemati ee (1 major) Physics (2c ee (1 major) Economath ee (1 major) Mathemati ee (1 major) Computatio	16) ematics (2016) cal Physics (2016)	6)		
		r Economathematics (2016)		generated 19-Apr-2025 • exa	ım. reg. da-	page 16 / 590
	,0		-	(120 ECTS) Wirtschaftsmathe	-	

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Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Computational Mathematics (2019) Master's degree (1 major) Mathematics (2019) Master's degree (1 major) Physics (2020) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module title Abbreviation				
Numeric of Large Systems of Equations 10-M=ANGG-161-m01				
Module coordinator Module offered by				
Dean of Studies Mathematik (Mathematics) Institute of Mathematics				
ECTS Method of grading Only after succ. compl. of module(s)				
10 numerical grade				
Duration Module level Other prerequisites				
1 semester graduate				
Contents				
Discretisation of elliptic differential equations, classical iteration methods, preconditioners, multigrid me	thods.			
Recommended previous knowledge: Basic knowledge of numerical mathematics, such as that acquired in the modules "Numerical Mathematic and "Numerical Mathematics 2", is required. Knowledge of the contents of the module "Basics in Optimiz is also recommended.				
Intended learning outcomes				
The student is acquainted with the most important methods for solving large systems of equations, and k the most efficient way to solve a given system of equations.	nows			
Courses (type, number of weekly contact hours, language — if other than German)				
V (4) + Ü (2) Module taught in: German and/or English				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on w	hether			
module is creditable for bonus)				
 a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus 				
Allocation of places				
Additional information				
Workload				
300 h				
Teaching cycle				
Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in				
Master's degree (1 major) Mathematics (2016)				
Master's degree (1 major) Economathematics (2016)				
Master's degree (1 major) Mathematical Physics (2016)				
Master's degree (1 major) Computational Mathematics (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)				
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)				
Master's degree (1 major) Computational Mathematics (2019)				
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Master's degree (1 major) Mathematics (2019) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

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Module title					Abbreviation		
Basics	in Opt	imization			10-M=AOPT-161-mc)1	
Module	e coord	inator		Module offered by			
Dean o	f Studi	es Mathematik (Mather	matics)	Institute of Mathem	atics		
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)			
10	nume	rical grade					
Duratio	on	Module level	Other prerequisites	5			
1 seme	ster	graduate					
Conten	ts						
	Fundamental methods and techniques in continuous optimization, unrestricted optimization, conditions for opti- mality, restricted optimization, examples and applications in natural and engineering sciences as well as econo- mics.						
Intende	ed lear	ning outcomes					
		nows the fundamental ecide which method is			lge their strengths a	nd weaknes-	
Course	S (type, I	number of weekly contact hours	s, language — if other than Ge	rman)			
V (4) + Module		t in: German and/or En	glish				
		Sessment (type, scope, lang ble for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
	ment o ble for			offered and in the su	ıbsequent semester		
Additio	onal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cycl	e					
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)			
Module appears in							
Master	's degr	ee (1 major) Mathemati	cs (2016)				
	-	ee (1 major) Economath					
	Master's degree (1 major) Mathematical Physics (2016)						
	-	ee (1 major) Computatio hing degree Gymnasiun			ork Bayaria (FNB) (a	016)	
		ry course MINT Teacher				510)	
		ee (1 major) Computatio			/ \/		
		ee (1 major) Mathemati					
Master	's teac	hing degree Gymnasiun	n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)	
Master's w	ith 1 majo	r Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 20 / 590	

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

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Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Mathematical Data Science (2025)

Master's degree (1 major) Economathematics (2025)

Module title					Abbreviation	
Control	Control Theory 10-M=ARTH-161-m01					1
Module	e coord	inator		Module offered by		
Dean o	f Studie	es Mathematik (Mathen	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semester graduate						
Conten	Contents					
Introduction to mathematical systems theory: stability, controllability and observability, state feedback and stability, basics in optimal control. Recommended previous knowledge: Basic knowledge of the contents of the module "Ordinary Differential Equations" is useful.						
		ning outcomes	,			
The stu blish a and oth	dent is connec ner fielc	acquainted with the fu ction between these res ds of mathematics.	ults and broader theor	ries, and learns abou		
V (4) +				inanj		
		t in: German and/or Enទ្	lish			
Method	d of ass	sessment (type, scope, langule for bonus)		examination offered — if no	t every semester, informati	on on whether
a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)		
Module appears in						
		ee (1 major) Mathematio	cs (2016)			
Master	's degr	ee (1 major) Economath	ematics (2016)			
	Master's degree (1 major) Mathematical Physics (2016)					
Master's degree (1 major) Computational Mathematics (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
		y course MINT Teacher			B) (2016)	
	-	ee (1 major) Computatio		-	m rog da	nago ao /
waster's wi	un i majoi	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmather	-	page 22 / 590



Master's degree (1 major) Mathematics (2019) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Bachelor's degree (1 major) Aerospace Computer Science (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) Master's degree (1 major) Economathematics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023)

Module title Abbreviation						
Numeri	Numeric of Partial Differential Equations 10-M=VNPE-161-m01					91
Module	e coord	inator		Module offered by		
Dean of	f Studi	es Mathematik (Mathem	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts		-			
Types of partial differential equations, qualitative properties, finite differences, finite elements, error estimates (numerical methods for elliptic, parabolic and hyperbolic partial differential equations; finite elements method, discontinuous Gelerkin finite elements method, finite differences and finite volume methods). Recommended previous knowledge: We recommend basic knowledge of functional analysis and partial differential equations, such as can be acqui-						
red in t	he moo	lules "Introduction to Fu	Inctional Analysis" an	d "Applied Analysis"		
Intende	ed lear	ning outcomes				
The stu	dent is	acquainted with advan	ced methods for discr	etising partial differe	ential equations.	
Course	S (type, r	umber of weekly contact hours	, language — if other than Ger	rman)		
V (4) + Module		t in: German and/or Enរ្	glish			
		s essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) oral c) oral e Langua	 a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester 					
Allocat	ion of p	olaces				
			_			
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	٩				
		-				
Referre	d to in	LPOI (examination regulation	ns for teaching-degree progra	mmes)		
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		ee (1 major) Mathematic	<u>(2016)</u>			
	-	ee (1 major) Physics (20				
Master	's degr	ee (1 major) Economath	ematics (2016)			
	Master's degree (1 major) Mathematical Physics (2016)					
Master's degree (1 major) Computational Mathematics (2016)						
		ning degree Gymnasium				016)
		y course MINT Teacher				
Master's wi	th 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 24 / 590

Master's degree (1 major) Computational Mathematics (2019) Master's degree (1 major) Mathematics (2019) Master's degree (1 major) Physics (2020) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Master's with 1 major Economathematics (2016)

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Module title					Abbreviation		
Selected Topics in Optimization 10-M=VC					10-M=VOPT-161-mc)1	
Module	coord	inator		Module offered by			
Dean of	fStudie	es Mathematik (Mather	natics)	Institute of Mathem	natics		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)			
10	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	ster	graduate					
Conten		3					
Selecte	Selected topics in optimization, e.g. inner point methods, semidefinite programs, non-smooth optimization, ga- me theory, optimization with differential equations.						
Intende	ed learı	ning outcomes					
		acquainted with advar research questions in			He gains the ability t	o work on	
Course	5 (type, n	umber of weekly contact hour	s, language — if other than Ger	man)			
V (4) + I Module		t in: German and/or En	glish				
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informati	ion on whether	
c) oral e Langua	examin ge of a ment o	ation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	s of 2, 15 minutes per c English	andidate)	ubsequent semester		
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachir	ng cycl	e					
	<u> </u>						
Referre	d to in	LPO I (examination regulati	ons for teaching-degree progra	mmes)			
Module	appea	irs in					
		ee (1 major) Mathemati	cs (2016)				
	-	ee (1 major) Economath					
Master'	s degr	ee (1 major) Mathemati	cal Physics (2016)				
Master'	s degr	ee (1 major) Computati	onal Mathematics (201	6)			
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's degree (1 major) Computational Mathematics (2019) Master's degree (1 major) Mathematics (2019)							
Master'	s teach	ning degree Gymnasiur y course MINT Teacher	n MINT Teacher Educat			020)	
Master's wi	th 1 majoı	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 26 / 590	

Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025)

Module title					Abbreviation	
Discret	Discrete Mathematics				10-M=VDIM-161-mc)1
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathem	natics)	Institute of Mathem	atics	
ECTS	1	od of grading	Only after succ. con			
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts	10				
Advanced methods and results in a selected field of discrete mathematics (e.g. coding theory, cryptography, graph theory or combinatorics) Recommended previous knowledge:						
		dge of the contents of th	e module "Introductio	n to Discrete Mather	matics" is required.	
		ning outcomes				
		acquainted with advan		ed topic in discrete r	mathematics.	
		number of weekly contact hours		•	nathematics	
V (3) +	Ü (1)	t in: German and/or Eng				
Metho	d of ass	S essment (type, scope, langu ole for bonus)		examination offered — if no	t every semester, informati	ion on whether
c) oral Langua	examin Ige of a ment o	nation of one candidate nation in groups (groups ssessment: German or l ffered: In the semester bonus	of 2, approx. 10 minu English	tes per candidate)	ıbsequent semester	
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Worklo	ad					
150 h	_					
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulatio	ns for teaching-degree progra	ummes)		
Module	e appea	ars in				
Module appears in Master's degree (1 major) Mathematics (2016)						
	-	ee (1 major) Physics (20				
	-	ee (1 major) Nanostructi				
Master	's degr	ee (1 major) Economath	ematics (2016)			
Master's degree (1 major) Mathematical Physics (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
		ee (1 major) Mathematic				
		ee (1 major) Nanostructu r Economathematics (2016)			m rog da	noge 20 /
waster SW	iti i majo			generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	•	page 28 / 590

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Master's degree (1 major) Physics (2020) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Quantum Technology (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module title			Abbreviation			
Dynam	Dynamical Systems 10-M=VDSY-161-m01					
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mathem	atics	
ECTS		od of grading	Only after succ. con			
5		rical grade				
Duratio		Module level	Other prerequisites			
		-				
1 seme		graduate]			
Conten		<u> </u>				
Fundan	nentals	s of dynamical systems, e	e. g. stability theory, e	ergodic theory, Hamil	tonian systems.	
		d previous knowledge:				
Basic k	nowled	lge of the contents of the	e module "Ordinary D	ifferential Equations	' is useful.	
Intende	ed lear	ning outcomes				
The stu quality.		nasters the mathematica	l methods in the theo	ry of dynamic system	ns, and is able to and	alyse their
		number of weekly contact hours,	- Ionguago if other than Co	rman)		
		iumber of weekly contact hours,	language — If other than Gel -	rman)		
V (3) + Module		t in: German and/or Eng	lish			
		Sessment (type, scope, langua	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
c) oral (Langua	examir ge of a ment o ble for		of 2, approx. 10 minu nglish	tes per candidate)	ibsequent semester	
Additio	nal inf	ormation	_			
Worklo	ad		_			
150 h						
Teachi	ng cvcl	e				
	0.7					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	ummes)		
			0.0001			
Module appears in						
Master's degree (1 major) Mathematics (2016)						
Master	Master's degree (1 major) Economathematics (2016)					
	-	ee (1 major) Mathematic				
	-	ee (1 major) Computation				
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
Master's degree (1 major) Computational Mathematics (2019)						
	Master's degree (1 major) Mathematics (2019)					
		hing degree Gymnasium				
waster's wi	itn 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 30 / 590

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

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Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Mathematical Data Science (2025)

Master's degree (1 major) Economathematics (2025)

Module title				Abbreviation			
Selecte	Selected Topics in Control Theory 10-M=VTRT-161-m01					1	
Module	e coord	inator		Module offered by			
Dean o	f Studi	es Mathematik (Mathem	natics)	Institute of Mathem	atics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
10	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	1 semester graduate						
Conten	Contents						
bilinea	r systei		ar control theory, e. g.	networked linear co	ntrol systems, contro	ollability of	
		d previous knowledge: the contents of the mod	lule "Mathematical Co	ntrol Theory" or "Cor	ntrol Theory" is requi	red.	
		ning outcomes					
The stu	dent g	ains insight into conter this field and can apply			/. He/She masters a	dvanced	
Course	S (type, r	number of weekly contact hours	, language — if other than Gei	rman)			
V (4) + Module		t in: German and/or Eng	lish				
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether	
b) oral c) oral (Langua	examir examin Ige of a ment o	mination (approx. 90 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	each (approx. 20 minu of 2, 15 minutes per c English	utes) or andidate)	ibsequent semester		
Allocat	ion of I	olaces					
Additio	nal inf	ormation					
Additio	inat init						
Worklo	ad		-				
300 h							
Teachi	ng cvcl	e					
	0 .)	-					
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	mmes)			
Module appears in							
			cs (2016)				
	Master's degree (1 major) Mathematics (2016) Master's degree (1 major) Economathematics (2016)						
	-	ee (1 major) Mathematic					
Master	's degr	ee (1 major) Computatio	nal Mathematics (201	6)			
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Master's degree (1 major) Computational Mathematics (2019)							
	-	ee (1 major) Mathematio					
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 32 / 590	



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) Master's degree (1 major) Economathematics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023)

Module	Module title				Abbreviation	
Inverse	Inverse Problems 10-M=VIPR-161-m01					
Module	e coord	inator		Module offered by		
Dean o	f Studie	es Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
Linear operator equations, ill-posed problems, regularisation theory, Tikhonov regularisation, iterative regulari- sation methods, examples of ill-posed problems. Recommended previous knowledge: Basic knowledge of functional analysis, such as that taught in the module "Functional Analysis", is recommen- ded.						
Intend	ed learı	ning outcomes				
		an judge whether a give mine them regarding s				
Course	S (type, n	number of weekly contact hours	, language — if other than Gei	rman)		
V (3) + Module		t in: German and/or En	glish			
Metho	d of ass	sessment (type, scope, lang	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
module is	s creditab	le for bonus)	-			
a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus						
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		ee (1 major) Mathemati	cs (2016)			
	-	ee (1 major) Economath				
	-	ee (1 major) Mathemati	•			
Master's degree (1 major) Computational Mathematics (2016)						
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)						
		y course MINT Teacher			3) (2016)	
	-	ee (1 major) Computatio		9) generated 19-Apr-2025 • exa	m, reg. da-	page 34 / 590
muster 5 W	i majoi	20010/matrematics (2010)		(120 ECTS) Wirtschaftsmather	•	Pase 24/ 390

Master's degree (1 major) Mathematics (2019) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021)

Module title				Abbreviation			
Non-lin	Non-linear Analysis 10-M=VNAN-161-m01						
Module	e coord	inator		Module offered by			
Dean o	f Studi	es Mathematik (Mathen	natics)	Institute of Mathem	atics		
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	its						
Method	ds in no	onlinear analysis (e. g. t	opological methods, n	nonotony and variation	onal methods) with a	applications.	
We rec	ommer	d previous knowledge: Id basic knowledge of fi Jules "Introduction to Fi				an be acqui-	
Intend	ed lear	ning outcomes					
The stu	ident is	acquainted with the co ical problems.	ncepts of non-linear a	nalysis, can compare	e them and assess t	heir applica-	
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)			
V (3) + Module		t in: German and/or Eng	glish				
		eessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
b) oral c) oral Langua Assess	examir examin age of a ment o	mination (approx. 60 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester	each (approx. 15 minu of 2, approx. 10 minu English	tes) or tes per candidate)	ibsequent semester		
credita							
Allocat	ion of _l	olaces					
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	е					
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)			
Module appears in							
Master's degree (1 major) Mathematics (2016)							
	-	ee (1 major) Economath					
	-	ee (1 major) Mathemati		~			
	-	ee (1 major) Computatio					
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)							
	-	ee (1 major) Computatio		9)			
	•	ee (1 major) Mathematio		generated to Apr acces	m rog da	page of 1	
waster s W	in i majo	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 36 / 590	



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module	Module title Abbreviation						
Optima	al Contr	ol			10-M=VOST-161-mc)1	
Module	e coord	inator		Module offered by			
Dean o	fStudie	es Mathematik (Mather	natics)	Institute of Mathem	atics		
ECTS	Metho	od of grading	Only after succ. con	Dnly after succ. compl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts		1				
optima Recom We rec quired the cor Intende The stu	Basics in optimal control of ordinary and partial differential equations, theory of optimal control, conditions for optimality, methods for numerical solution. Recommended previous knowledge: We recommend basic knowledge of functional analysis and ordinary differential equations, such as can be ac- quired in the modules "Introduction to Functional Analysis" and "Ordinary Differential Equations". Knowledge of the contents of the module "Basics in Optimization" may also be useful. Intended learning outcomes The student is acquainted with advanced methods in optimal control. He gains the ability to work on contempo- rary research questions in continuous optimization.						
		umber of weekly contact hours	*	rman)			
V (3) +	Ü (1)	t in: German and/or En					
module is	s creditab	sessment (type, scope, lang le for bonus)			t every semester, informati	on on whether	
b) oral c) oral Langua	examin examin Ige of a ment o	mination (approx. 60 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	each (approx. 15 minu s of 2, approx. 10 minu English	tes) or tes per candidate)	ıbsequent semester		
Allocat	ion of p	olaces					
Additio	onal info	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
	0 . /	2					
Referre	d to in	LPOI (examination regulation	ns for teaching degree progra	mmec)			
Module	annea	ors in					
Master Master Master Master	Module appears in Master's degree (1 major) Mathematics (2016) Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Mathematical Physics (2016) Master's degree (1 major) Computational Mathematics (2016)						
		ning degree Gymnasiun				016)	
		y course MINT Teacher		Network Bavaria (ENI generated 19-Apr-2025 • exa		page 38 / 590	
	1.			(120 ECTS) Wirtschaftsmathe		F-0- Jo / Jyo	

Master's degree (1 major) Computational Mathematics (2019) Master's degree (1 major) Mathematics (2019) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

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Module	Iodule title Abbreviation					
Learnin	g by T	eaching 1			10-M=ELT1-161-m01	
Module	e coord	inator		Module offered by		
Dean of	fStudi	es Mathematik (Mathema	atics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duration Module level Other prerequisites						
1 seme	ster	graduate				
Conten	ts					
Superv	ising a	tutorial or study group in	the Bachelor's progr	amme under guidan	ce of the respective lecturer.	
Intende	ed lear	ning outcomes				
	-	ains his/her first experier can apply them in practic	-	rsity mathematics. H	le/She knows basic didactical	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
Т (о)						
		Sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		f tutoring activities by su	pervising lecturers or	exercise supervisor	s (1 to 2 teaching units)	
Allocat				•		
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ıg cycl	e				
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Mathematics	s (2016)			
		ee (1 major) Economathe				
		ee (1 major) Mathematica				
Master	's degr	ee (1 major) Computation	al Mathematics (201	6)		

Module	Module title Abbreviation					
Selecte	ed Topi	cs in Business Mathen	natics		10-M=ATWM-161-m	01
Module	e coord	inator		Module offered by	<u> </u>	
		es Mathematik (Mathe	matics)			
_	1				latics	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10		rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ester	graduate				
Conten	nts					
mathei Recom	Contemporary topics in mathematics for economics, for example in the field of statistics, finance or insurance mathematics. Recommended previous knowledge: Depending on the content, basic and advanced knowledge from different areas of statistics or stochastics is re-					
		ning outcomes				
The stu	udent is	acquainted with funda	amental concepts and		porary field of math	ematics for
		· · · ·	e skills to complex que			
	-	number of weekly contact hour	s, language — if other than Ge	rman)		
V (4) +		tin Common and Ian En	aliah			
		t in: German and/or En				
			guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		le for bonus)		1)		
			o 120 minutes, usually e each (approx. 20 min			
			s of 2, 15 minutes per c			
		ssessment: German or				
			in which the course is	offered and in the su	ubsequent semester	
	ble for					
Allocal	tion of _l	Diaces				
Additio	onal inf	ormation				
Worklo	oad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Economatl	nematics (2016)			
Master	's degr	ee (1 major) Economatl	nematics (2021)			
Master	's degr	ee (1 major) Economatl	nematics (2022)			
1		gram Mathematics (20:	-			
	-	ee (1 major) Economatl				
Master	's degr	ee (1 major) Economatl	nematics (2025)			
Master's w	ith 1 majo	r Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 41 / 590



Stochastics and Statistics

(10 ECTS credits)

Module	Module title Abbreviation							
Industr	rial Sta	tistics 1			10-M=AIST-161-mo1	1		
Module	e coord	inator		Module offered by				
Dean o	f Studi	es Mathematik (Mathem	natics)	tics) Institute of Mathematics				
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)				
10	nume	rical grade						
Duratio		Module level	Other prerequisites					
1 seme	ster	graduate						
Conten	ts	0						
		meter and domain estir is, comparative analysis				irical distri-		
Intende	ed lear	ning outcomes						
The stu	dent m	asters the fundamental	statistical methods for	or industrial applicat	ions.			
Course	S (type, r	number of weekly contact hours	language — if other than Ge	rman)				
V (4) + Module		t in: German and/or Eng	lish					
		Sessment (type, scope, langu Ile for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether		
b) oral c) oral (Langua Assess	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
Allocat	ion of _l	olaces						
			-					
Additio	nal inf	ormation						
Worklo	ad							
300 h			_					
Teachi	ng cycl	e						
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	ammes)				
Module	e appea	ars in						
Master	's degr	ee (1 major) Mathematio	:s (2016)					
	-	ee (1 major) Economath						
	-	ee (1 major) Mathematic						
	-	ee (1 major) Computatio						
		hing degree Gymnasium				016)		
		ry course MINT Teacher			B) (2016)			
	-	ee (1 major) Computatio		9)				
	-	ee (1 major) Mathematic	-	ion DILIC Elita Natur	ork Ravaria (END) (a.	020)		
		hing degree Gymnasium ry course MINT Teacher I				020)		
		ee (1 major) Mathematic		inclinoir Davalla (EN	(2020)			
	Jacgi							
Master's wi	ith 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	_	page 43 / 590		

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Master's degree (1 major) Economathematics (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Mathematical Physics (2022)

Master's degree (1 major) Economathematics (2022)

exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Economathematics (2025)

Module	Module title Abbreviation					
Stocha	stical I	Processes			10-M=ASTP-161-mo	01
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mathem	atics	
ECTS	Meth	od of grading	Only after succ. con			
10	nume	rical grade				
Duratio	on .	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Markov	chain:	s, queues, stochastic pr	ocesses in C[0,1], Brov	wnian motion, Donsk	er's theorem, projec	ctive limits.
Recommended previous knowledge: Basic knowledge of stochastics is required, such as that acquired in the "Stochastics 1" module. Knowledge of the contents of the module "Stochastics 2" is also recommended.						
Intende	ed lear	ning outcomes				
		acquainted with the fur cal problems.	ndamental notions an	d methods of stocha	stical processes and	d can apply
Course	S (type, r	number of weekly contact hours,	language — if other than Gei	rman)		
V (4) + Module		t in: German and/or Eng	lish			
		sessment (type, scope, langu		examination offered — if no	t every comector informati	ion on whether
		le for bonus)			t every semester, mornati	ion on whether
b) oral c) oral Langua	examir examin Ige of a	mination (approx. 90 to nation of one candidate ation in groups (groups ssessment: German or E ffered: In the semester i	each (approx. 20 minu of 2, 15 minutes per c English	utes) or andidate)	ıbsequent semester	
credita	-		_			
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h			_			
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ummes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Mathematic	s (2016)			
Master	's degr	ee (1 major) Economathe	ematics (2016)			
	-	ee (1 major) Mathematic	•			
	-	ee (1 major) Computatio				
		hing degree Gymnasium				016)
		ry course MINT Teacher B			B) (2016)	
	-	ee (1 major) Computatio		9)		
	-	ee (1 major) Mathematic				
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 45 / 590



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module	Module title Abbreviation					
Time S	eries A	nalysis 1			10-M=AZRA-161-mc	01
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathen	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts		•			
Additiv	e mode	el, linear filters, autocor	relation, moving avera	ge, autoregressive p	rocesses, Box-Jenki	ns method.
Basic k	nowled	d previous knowledge: lge of stochastics is req of the module "Stochast			astics 1" module. Kn	owledge of
Intende	ed lear	ning outcomes				
	ident is	acquainted with the fu	ndamental methods o	f time series analysis	s and can apply then	n to practical
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (4) + Module		t in: German and/or Eng	glish			
		Sessment (type, scope, langule for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
b) oral c) oral Langua Assess	examir examin age of a ment o	mination (approx. 90 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester	each (approx. 20 minu of 2, 15 minutes per c English	utes) or andidate)	ibsequent semester	
credita						
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	е				
Referre	ed to in	LPOI (examination regulation	ons for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Mathemati	cs (2016)			
	-	ee (1 major) Economath				
	-	ee (1 major) Mathematio				
	-	ee (1 major) Computatio				
		ning degree Gymnasium				016)
		ry course MINT Teacher			B) (2016)	
	-	ee (1 major) Computatio		9)		
	•	ee (1 major) Mathemati				,
Master's w	ith 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 47 / 590



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020)

Module	Module title Abbreviation						
Industr	ial Sta	tistics 2			10-M=VIST-161-mo:	1	
Module	e coord	inator		Module offered by	fered by		
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	atics		
ECTS		od of grading	Only after succ. con	npl. of module(s)			
10		rical grade		• • • •			
Duratio		Module level	Other prerequisites	i i i i i i i i i i i i i i i i i i i			
1 seme	ster	graduate					
Conten		0					
ling, ba	isics in	, regression analysis, r empirical time series a ical process monitoring	nalysis, methods of ex				
Intende	ed lear	ning outcomes					
The stu	dent m	asters advanced statis	tical methods for indu	strial applications.			
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)			
V (4) + Module		t in: German and/or En	glish				
		Sessment (type, scope, lang Ile for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
Langua	ge of a ment o	ation in groups (groups ssessment: German or ffered: In the semester bonus	English		ıbsequent semester		
Allocat	ion of _l	olaces					
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cycl	e					
Referre	d to in	LPOI (examination regulation	ons for teaching-degree progra	ummes)			
Module	e appea	ars in					
Master	's degr	ee (1 major) Mathemati	cs (2016)				
	-	ee (1 major) Economath					
	-	ee (1 major) Mathemati					
	-	ee (1 major) Computatio					
		hing degree Gymnasiun				016)	
		ry course MINT Teacher			B) (2016)		
		ee (1 major) Computatio		9)			
		ee (1 major) Mathemati		ion DILIC Elita Natur	ork Rovaria (END) (a	020)	
		hing degree Gymnasiun ry course MINT Teacher				020)	
Master's wi	ith 1 majo	r Economathematics (2016)	-	9 generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 49 / 590	

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Economathematics (2025)

Module	Module title Abbreviation					
Statist	ical An	alysis			10-M=VSTA-161-mo	1
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathematics		
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
crimina Recom Basic k	Contingency tables, categorical regression, one-factorial variance analysis, two-factorial variance analysis, dis- criminant function analysis, cluster analysis, principal component analysis, factor analysis. Recommended previous knowledge: Basic knowledge of stochastics is required, such as that acquired in the "Stochastics 1" module. Knowledge of the contents of the module "Stochastics 2" is also recommended.					
Intend	ed lear	ning outcomes				
The stu problei		acquainted with the fu	ndamental methods ir	n statistical analysis	and can apply them	to practical
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
	V (4) + Ü (2) Module taught in: German and/or English					
		sessment (type, scope, lang		examination offered — if no	t everv semester. informati	on on whether
		le for bonus)			, , , , , , , , , , , , , , , , , , , ,	
b) oral c) oral Langua	examir examin age of a ment o	mination (approx. 90 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	each (approx. 20 minu s of 2, 15 minutes per c English	utes) or andidate)	ıbsequent semester	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	۵				
Teacin	ing cycl	6				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	e appea	nrs in				
	-	ee (1 major) Mathemati				
	-	ee (1 major) Economath				
	-	ee (1 major) Mathemati	•	()		
	-	ee (1 major) Computatio			ark Davaria (END) (-	
		ning degree Gymnasiun				J10J
		y course MINT Teacher ee (1 major) Computatio			DJ (2010)	
		r Economathematics (2016)		9) generated 19-Apr-2025 • exa	ım. reg. da-	page 51 / 590
	i majo	(2010)	-	(120 ECTS) Wirtschaftsmathe	-	2000 11 290

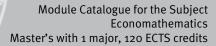
Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020)

Module	Module title Abbreviation						
Time So	eries A	nalysis 2			10-M=VZRA-161-mc)1	
Module	e coord	inator		Module offered by	lodule offered by		
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathematics			
ECTS	Metho	od of grading	Only after succ. con	/ after succ. compl. of module(s)			
10		rical grade		•			
Duratio		Module level	Other prerequisites				
1 seme:		graduate					
Conten		Sidduite	l				
	pace m	odels, Kalman filter, fre ions.	equency spaces, Fourie	er analysis, periodog	rams, characterisati	on of autoco-	
Intende	ed lear	ning outcomes					
The stu	dent is	acquainted with advar earch questions in this		series analysis. He ga	ains the ability to wo	ork on con-	
Course	S (type, r	umber of weekly contact hours	s, language — if other than Ge	rman)			
V (4) + Module	• •	t in: German and/or En	glish				
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
c) oral e Langua	examin ge of a ment o	ation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	s of 2, 15 minutes per c English	andidate)	ubsequent semester		
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
	au						
300 h		-					
Teachir	ig cycl	e					
Referre	d to in	LPOI (examination regulation	ons for teaching-degree progra	ammes)			
Module	e appea	rs in					
Master' Master' Master'	's degr 's degr 's degr	ee (1 major) Mathemati ee (1 major) Economath ee (1 major) Mathemati ee (1 major) Computatio	ematics (2016) cal Physics (2016) onal Mathematics (201		ork Douorio (END) (o		
Supple Master' Master'	mentai 's degr 's degr	ning degree Gymnasiun y course MINT Teacher ee (1 major) Computatio ee (1 major) Mathemati	Education PLUS, Elite onal Mathematics (201 cs (2019)	Network Bavaria (EN 9)	B) (2016)		
		ning degree Gymnasiun y course MINT Teacher				020)	
Master's wi	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 53 / 590	





Master's degree (1 major) Mathematical Physics (2020)



Financial and Insurance Mathematics

(10 ECTS credits)

Module	Nodule title Abbreviation						
Stocha	stic Mo	odels of Risk Managem	ent		10-M=ASMR-161-m	01	
Module	e coord	inator		Module offered by			
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathematics			
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)			
10	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	ster	graduate					
Conten		5.444446					
res, val la, mod estimat series a risk in t	Measure theory, risk diagrams, failure mode and effects analysis, risk assessment in auditing, shortfall measu- res, value at risk, conditional value at risk, axiomatic of risk measures, modelling of interdependencies, copu- la, modelling of functional interrelations, regression models, basics in time series modelling, aggregated losses, estimates of shortfall measures, estimates of value at risk and conditional value at risk, basics in empirical time series analysis, methods of exponential smoothing, predictions and prediction domains, estimates of value at risk in time series, elementary empirical regression analysis, simulation methods.						
Intende	ed lear	ning outcomes					
The stu	dent is	acquainted with the fu	Indamental methods o	f stochastic risk anal	lysis.		
Course	S (type, r	umber of weekly contact hour	s, language — if other than Ger	man)			
V (4) + Module		t in: German and/or En	glish				
		essment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	t every semester, informat	on on whether	
b) oral c) oral o Langua Assess	examir examin ge of a ment o	ation of one candidate ation in groups (group ssessment: German or ffered: In the semester	o 120 minutes, usually o e each (approx. 20 minu s of 2, 15 minutes per c English in which the course is	ites) or andidate)	ubsequent semester		
credita							
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cycl	e					
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)			
				,			
Module	appea	urs in					
		ee (1 major) Mathemati	cs (2016)				
	-	ee (1 major) Economath					
	-	ee (1 major) Mathemati					
Master	's degr	ee (1 major) Computati	onal Mathematics (201	6)			
Master	's teacl	ning degree Gymnasiur	n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)	
		•	Education PLUS, Elite I		B) (2016)		
	-		onal Mathematics (201	9)			
		ee (1 major) Mathemati					
Master's wi	ith 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 56 / 590	



Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module	e title			Abbreviation			
Insurar	nce Ma	thematics 1			10-M=AVSM-161-m	01	
Module	e coord	inator		Module offered by			
Dean o	f Studi	es Mathematik (Mathen	natics)	Institute of Mathematics			
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)			
10	nume	rical grade		•			
Duratio		Module level	Other prerequisites				
1 seme		graduate					
Conten		Sidduite					
The module discusses policies on one life: distributions of future lifetime, life tables, life table approximations, types of benefits, present value, expection principle, premium calculation, commutation functions, reserves and policy values, expenses, bonus, recursive methods, Thiele's differential equation. Recommended previous knowledge: Depending on the content, basic and advanced knowledge from different areas of statistics or stochastics is required. In case of doubt, it is recommended to consult the lecturer.							
Intende	ed lear	ning outcomes					
		acquainted with the fu actical problems.	ndamental notions an	d methods of life ins	urance mathematics	s and can ap-	
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)			
V (4) + Module		t in: German and/or Eng	glish				
Method	d of ass	sessment (type, scope, langu	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
module is	s creditab	le for bonus)					
b) oral c) oral (Langua	examir examin Ige of a ment o	mination (approx. 90 to nation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	each (approx. 20 minu of 2, 15 minutes per c English	utes) or andidate)	ıbsequent semester		
Allocat	ion of _l	olaces					
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cycl	ρ					
reaction	is cyci						
Deferme				`			
Referre		LPO I (examination regulation	ins for teaching-degree progra	immes)			
		•					
Module							
	-	ee (1 major) Mathematic					
	-	ee (1 major) Economath ee (1 major) Computatic		6)			
	-	hing degree Gymnasium			ork Bayaria (FNR) (a	016)	
		ry course MINT Teacher				010)	
		ee (1 major) Computatio			L) (2010)		
		r Economathematics (2016)		generated 19-Apr-2025 • exa	am. reg. da-	page 58 / 590	
	.,-		-	(120 ECTS) Wirtschaftsmathe	-		

UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Economathematics (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Economathematics (2022)

exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Mathematical Data Science (2025)

Master's degree (1 major) Economathematics (2025)

Module	e title				Abbreviation	
Selecte	ed Topi	cs in Financial Mathem	atics		10-M=VFNM-161-m	01
Module	e coord	inator		Module offered by	ffered by	
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
10		rical grade				
Duratio		Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conter		0				
of asse stocha Recom Familia	et pricin stic inte mende urity wit	is in financial mathema g in discrete time for fine egration, stochastic diff d previous knowledge: h the contents of the m recommended.	nite spaces, American ferential equations and	put, Snell envelope, I Ito calculus, Black-	stopping time, optir Merton-Scholes mod	nal stopping, del.
The stu conter	ident is	ning outcomes acquainted with advar research questions in	financial mathematics	and can apply his/h		
		umber of weekly contact hours	s, language — if other than Ge	rman)		
V (4) + Module		t in: German and/or En	glish			
		eessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
b) oral c) oral Langua Assess	examir examin age of a	nination (approx. 90 to ation of one candidate ation in groups (groups ssessment: German or ffered: In the semester bonus	each (approx. 20 min 5 of 2, 15 minutes per c English	utes) or andidate)	ubsequent semester	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Module	e appea	irs in				
Master Master Master Supple	's degr 's degr 's teacl mentai	ee (1 major) Mathemati ee (1 major) Economath ee (1 major) Computatio ning degree Gymnasiun y course MINT Teacher	ematics (2016) onal Mathematics (201 n MINT Teacher Educat Education PLUS, Elite	ion PLUS, Elite Netw Network Bavaria (EN		016)
	-	ee (1 major) Computatio		• generated 19-Apr-2025 • exa	am, reg. da-	page 60 / 590
musici S W	in i majo	Leonomathematics (2010)		(120 ECTS) Wirtschaftsmathe		puge 00 / 590

UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Mathematics (2019)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)

Master's degree (1 major) Economathematics (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Economathematics (2022)

exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Mathematical Data Science (2025)

Master's degree (1 major) Economathematics (2025)

Module title				Abbreviation			
Insurance Mathematics 2					10-M=VVSM-161-m01		
Module coordinator				Module offered by			
Dean of Studies Mathematik (Mathema			natics)	atics) Institute of Mathematics			
ECTS Method of grading			Only after succ. con	Only after succ. compl. of module(s)			
10 numerical grade							
Duratio	n	Module level	Other prerequisites				
1 semester graduate							
Contents							
This module discusses modern valuation approaches and multiple decrement models regarding one life or two lives: modern valuation in life insurance mathematics, axiomatic derivation of the product measure approach, Markov chain models, Kolmogorov's differential equations, Thiele's differential equations, numerical applications, joint life policies. Recommended previous knowledge: Familiarity with the contents of the modules "Insurance Mathematics 1" and "Selected Topics in Financial Mathematics" is strongly recommended.							
		ning outcomes					
The stu	dent is	acquainted with advan research questions in i					
Course	S (type, n	umber of weekly contact hours	, language — if other than Ger	man)	·		
$V(4) + \ddot{U}(2)$ Module taught in: German and/or English							
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)							
a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
Allocation of places							
Additional information							
Workload							
300 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module appears in							
Master's degree (1 major) Mathematics (2016) Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Computational Mathematics (2016) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016) Master's with 1 major Economathematics (2016) Master's degree (1 major) Economathematics (2016) Master's with 1 major Economathematics (2016) Master's with 1 major Economathematics (2016) Master's degree (1 major) Economathematics (2016) Master's with 1 major Economathematics (2016)							
master's wi	tn 1 majoi	Economatnematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 62 / 590	

Master's degree (1 major) Computational Mathematics (2019) Master's degree (1 major) Mathematics (2019) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Economathematics (2025)

UNIVERSITÄT

WÜRZBURG

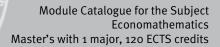


Compulsory Electives Business Management and Economics

(40 ECTS credits)

Two focuses with 40 ECTS credits





Economic Policy (20 ECTS credits)



Compulsory Core Electives

(20 ECTS credits)

Module title				Abbreviation		
European Competition Policy					12-M-WPE-161-m01	
Module coordinator				Module offered by		
holder of the Chair of Industrial Economics			nics	Faculty of Management and Economics		
ECTS Method of grading Onl			Only after succ. com	Only after succ. compl. of module(s)		
5 numerical grade						
Duration Module level		Other prerequisites				
1 semester graduate						
Conten	Contents					
 Legal environment, competition laws Market definition Qualitative methods Simple quantitative methods Hypothetical monopoly test Horizontal agreements and collusion: repeated games and factors affecting likelihood of collusion Horizontal mergers and collusion Economic theory Efficiency effects Coordinated effects Vertical relations and contracts Economic analysis of contracts "More economic approach" Abuse of dominant position Classification of abusive conduct Economic analysis of abusive conduct and theory of harm 						
		l be taught in English.				
Intended learning outcomes						
After completion of the module students can use the advanced concepts introduced in the lecture of competiti- on policy, including the legal framework, the trace models and methods for the study of competition policy issu- es, as well as understand the approach of European competition policy in high profile cases. When they are con- fronted with practical problems, they can refer to these cases, and the same logic to practical examples apply by draining the relevant economic theories that identify variables to be measured and methodologies for assessing, and based on that adequate conclusions for appropriate cases. They will sufficiently understand the subject in order to open up that build upon literature in journals and being able to think critically.						
Courses (type, number of weekly contact hours, language — if other than German)						
V (2)						
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus						
Allocation of places						

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Master's with 1 major Economathematics (2016)

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) Media Communication (2016)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Media Communication (2018)
Master's degree (1 major) Media Communication (2019)

Master's with 1 major Economathematics (2016)

Module title				Abbreviation			
Theory of Social Policy					12-M-TSP-161-m01		
Module coordinator				Module offered by			
holder of the Chair of Labour Economic			ics	Faculty of Management and Economics			
ECTS Method of grading			Only after succ. compl. of module(s)				
5 numerical grade							
			Other prerequisites	er prerequisites			
1 seme	ster	graduate					
Contents							
This course offers an introduction to the fundamentals of causal inference and to widely used research desi- gns in the social sciences. In the first part a framework for understanding causality is introduced. Specifically, the epistemological differences between association, intervention and counterfactuals are explained. Then it is shown why experiments are paramount in generating causal knowledge and which assumptions are needed for which level of the causal hierarchy. Finally, we will discuss two widely used approaches to causality in the social sciences, i.e. potential outcomes and directed acyclic graphs.							
The second part is devoted to the research designs regressions analysis, difference-in-differences, instrumen- tal variables, and regression discontinuity. The emphasis is how these research designs are for example applied to answer important questions in labour economics such as the effects of a minimum wage increase on employ- ment or the effect of children on female labour supply and wages.							
The assumptions each research design requires in order to identify a causal effect will be at center stage of the lecture. Therefore the emphasis is to teach students <i>what</i> one needs to estimate in order to answer a given question. Further, the research designs are discussed such that students will be able to evaluate and apply these research designs to other questions and fields.							
Intende	ed learı	ning outcomes					
At the end of the course, students should be able to understand basic concepts and methods of causal infe- rence, as well as read, interpret, and assess the credibility of scientific publications. In addition, the course ser- ves as preparation for advanced statistics and econometrics courses.							
Courses (type, number of weekly contact hours, language — if other than German)							
V (2) + Ü (2)							
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)							
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English							
Allocation of places							
Additional information							
Workload							
150 h							
Teaching cycle							
Teaching cycle: no courses offered							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module appears in							
Master's degree (1 major) Economathematics (2016) Master's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Wirtschaftsmathematik - 2016				page 69 / 590			

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

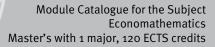
Module title				Abbreviation	
Labor Market Ec	onomics			12-M-OEA-161-m01	
Module coordina	ator		Module offered by		
holder of the Jun Economics of Di	ior Professorship of Mi gitization	croeconomics, esp.	Faculty of Management and Economics		
ECTS Method of grading Only after succ. co			npl. of module(s)		
5 numeric	al grade				
Duration Module level		Other prerequisites			
1 semester graduate					
Contents					
 pics: Labor supply Labor demand Human capital formation Compensating wage differentials Discrimination The course will consist of frontal teaching of the basic theoretical as well as empirical tools as well as a careful reading of some of the key scientific articles related to the outlined topics. Students are expected to read the scientific articles in advance and will be asked to discuss them in small groups during class. In addition, a discussion of the articles will help illustrating how established scholars approach the core questions in modern labor economics and giving students an understanding of high quality empirical research. The main reference for the lecture is Cahuc and Zylberberg. (2004): "Labor Economics", 1st edition, Massachusetts Institute of Technology. In addition, we will discuss well-published economic articles related to the single 					
topics discussed in class. Intended learning outcomes					
The aim of this course is to acquaint students with classical as well as modern topics in labor economics and to encourage the development of research interest in this field. As such, the course's objective is to familiarize students with both the core theoretical models of labor economics as well as the main econometric methods used to provide empirical evidence.					
Courses (type, num	ber of weekly contact hours, l	anguage — if other than Ger	rman)		
Ü (2) + V (2)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Teaching cycle: I	Teaching cycle: no courses offered				

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module	e title				Abbreviation			
Public	Debt				12-M-F2-161-m01			
Module	e coord	inator		Module offered by				
holder	ofthe	Chair of Public Finance		Faculty of Managem	nent and Economics			
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)				
5	nume	rical grade						
Duratio	on	Module level	Other prerequisites	;				
1 seme	ster	graduate						
Conten	ts							
The mo and sci	Description: The module provides an introduction to some specific issues of public debt that are in the focus of the public and scientific debate. Reading: lecture notes provided by Chair.							
 Meason Grow Inter Publ Neut 	Outline of syllabus: 1. Measurement of public debt 2. Growth effects of public debt 3. Intergenerational effects of public debt 4. Public debt in open economies 5. Neutrality of public debt 6. Political economy of public debt							
-		ning outcomes						
measu quence	rement es using n neutra	ing the course "Nationa concepts and problem g simple equilibrium m ality and know the polit s.	s of public debt. They o odels of closed and op	can discuss the grow en economies. They	th and distributiona can evaluate the rele	ll conse- evance of Ri-		
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)				
V (2) +	Ü (2)							
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether		
b) term	paper	mination (approx. 60 m (approx. 15 pages) .ssessment: German ar	·					
Allocat	ion of _l	places						
Additio	nal inf	ormation						
	-							
Worklo	ad							
150 h								
Teachi	ng cycl	e						
Teachi	ng cycl	e: no courses offered						
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)				
Module								
Master	's degr	ee (1 major) Economatl	nematics (2016)					
Master's w	ith 1 majo	r Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 73 / 590		



Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	e title				Abbreviation			
Social	Insurar	nce and the Welfare Sta	ate		12-M-F3-161-m01			
Module	e coord	inator		Module offered by				
holder	ofthe	Chair of Public Finance		Faculty of Managen	nent and Economics			
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)				
5	nume	rical grade						
Duratio	n	Module level	Other prerequisites					
1 seme	ster	graduate						
Conten	ts							
This mo and pro retirem Reading Conten 1. Publi	Description: This module discusses the economic justification for implementing social security systems in a market economy and provides students with deeper insights into this topic with the help of specific issues of public health and retirement policy. Reading: lecture notes provided by Chair. Contents: 1. Public intervention in insurance markets							
3. Socia 4. The o 5. Why	al secu optima do we	ice function of social se rity and social morale l health insurance cont need a public pension pay-as-you-go financin	ract system?					
	_	ning outcomes	<u> </u>					
dation cuss th	of the s e finan	ng the module "Theorie social security system i cing and contract struc uences of policy reforn	n a market economy. U ture of the public healt	sing simple partial e	quilibrium models t	hey can dis-		
		number of weekly contact hour		rman)				
V (2) +		,	<u>, , , , , , , , , , , , , , , , , , , </u>					
		Sessment (type, scope, lang Ile for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether		
a) writt	en exa	mination (approx. 60 m	inutes) or					
		(approx. 15 pages)	d /or English					
Allocat		ssessment: German ar						
		Jaces						
Additio	nal inf	ormation						
Worklo	ad							
150 h								
Teachi	ng cycl	e						
		e: winter semester						
		LPO I (examination regulati	ons for teaching-degree progra	immes)				
Module	e appea	ars in						
	-	ee (1 major) Economatł ee (1 major) Business I		016)				
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 75 / 590		

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	title				Abbreviation		
Moneta	ıry Poli	cy and the Financial Sy	vstem		12-M-EG1-161-m01		
Module	coord	inator		Module offered by			
holder nal Fina		Chair of Monetary Econo Narkets	omics and Internatio-	Faculty of Managen	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	mpl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites	i			
1 seme	ster	graduate					
Conten	ts						
repeats third or section	macro ne, mor deals	a thorough introduction economic concepts. The netary policy with the zo with linkages between	ne second one deals wi ero lower bound on no monetary and fiscal po	th core topics on mo minal interest rates o	netary policy and th	eory. In the	
Format	ofthe	module: lectures and e	xercise sessions				
		Basic knowledge of mi ess or similar fields.	croeconomics and ma	croeconomics as tau	ght in Bachelor prog	rams in Eco-	
Usabilit	ty: Mas	ter International Econo	mic Policy				
Require exam.	ements	for getting credit point	s according to the Erop	ean Credit Transfer S	System (ECTS): Pass	ing the final	
ECTS ar	nd grad	ling: 5 ECTS, Grading or	n a scale from 1-5 base	d on the final exam.			
Frequer	ncy of t	he module: Each winte	r term				
Workloa	ad: 150	hours (Lecture + Exerc	ise Session + Self Stuc	ly)			
Duratio	n: 1 Se	mester					
Intende	ed learı	ning outcomes					
pertise	on inst to unc	acquire a thorough und itutional aspects and t lerstand current develo hese.	heoretical monetary m	odels. Having compl	eted the module, st	udents will	
Course	S (type, n	umber of weekly contact hours	s, language — if other than Ge	rman)			
Ü (2) +	V (2)						
		e essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
b) term	paper	nination (approx. 60 m (approx. 15 pages) ssessment: German an					
Allocat	-						
30 plac by lot a number	es. (1) mong a r of pla	Should the number of a all applicants irrespecti ces will be allocated in a they become available	ve of their subjects. (2 the same procedure. () Places on all course	es of the module wit	h a restricted	
Additio	nal inf	ormation					
Master's wi	th 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 77 / 590	

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) Media Communication (2016)

Master's degree (1 major) China Language and Economy (2016)

Master's degree (1 major) Media Communication (2018)

Master's degree (1 major) Media Communication (2019)

Module	e title				Abbreviation
Moneta System	•	icy, Foreign Exchange M	arkets, and the Interr	national Monetary	12-M-EG2-161-m01
Module	e coord	inator		Module offered by	
		Chair of Monetary Econo Markets	mics and Internatio-	Faculty of Manager	nent and Economics
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade		-	
Duratio	n	Module level	Other prerequisites	i	
1 seme	ster	graduate			
Conten	ts				
The for	eign ex ning o	•		players and evolution	on; FX transactions; hedging and
Theore and pu busch-) ce appr the cur Exchan	tical ba rchasir) overs roach; rent ac ge rate	ng power parity (PPP); Me hooting model; Balassa- Real effective exchange count. e regimes and monetary p	onetary approach: Fle Samuelson effect; FX rates; Empirical validi policy in open econom	xible price monetary valuation via the PP ity of the exchange ra nies:	ncovered interest rate parity (UIP) wodel and sticky price (Dorn- P and the macroeconomic balan- ate theories; Exchange rates and ; historical development of the
interna Modell Implica	tional i ing ope	monetary system; centra en economy macroecono	l bank interventions on mics at the intermedi	on the FX market. Tate level:	fixed and flexible exchange ra-
		MP-PC) model of the ope xchange rates; optimum			rry and fiscal policy under fixed practice.
Currend Interna ming fr	tional	experience with currency	rcrises since the 1970	os; modelling curren	cy crises within the Mundell-Fle-
Manag	ed-floa	ting as a solution for the	policy trilemma.		
Intende	ed lear	ning outcomes			
market Next to investn econon	s, the o a profe nent st nies, in	drivers of exchange rate ound knowledge of exch rategy. In the second par	movements and some ange rate theory the c rt of the course stude d risks like currency c	e exchange rate valu course highlights its nts learn the princip rises. Students will	nctioning of foreign exchange ation methods used in practice. practical applicability, e.g. as an les of monetary policy in open be able to analyze these issues
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)	
Ü (2) +	V (2)				
		s essment (type, scope, langualle for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether
		mination (approx. 60 min (approx. 15 pages)	nutes) or		

b) term paper (approx. 15 pages) Master's with 1 major Economathematics (2016)

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Wirtschaftsmathematik - 2016

Language of assessment: German and/or English

Allocation of places

30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module	e title				Abbreviation	
Empiri	cal Reg	ional- and International	Economic Research		12-M-ERA-161-m01	
Module	e coord	inator		Module offered by		
Dean o mics	f the Fa	aculty of Business Manag	ement and Econo-	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	compl. of module(s)		
5		rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
No info	ormatio	n on contents available.				
Intend	ed lear	ning outcomes				
	-	n on intended learning o	utcomes available.			
		number of weekly contact hours, l		rman)		
V (2) +						
		Sessment (type, scope, langua ole for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
b) term c) portf Langua	i paper folio (a age of a	mination (approx. 60 to 9 (approx. 10 pages) on en pprox. 20 pages) ssessment: German and,	npirical analysis prep	pared by candidates	or	
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi						
		e: no courses offered				
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	ummes)		
Module	e appea	ars in				
Master Master Master Master	's degr 's degr 's degr 's degr	ee (1 major) Economathe ee (1 major) Business Ma ee (1 major) China Busine ee (1 major) International	nagement (2015) ess and Economics (2 Economic Policy (20	15)		
Master	's degr	ee (1 major) China Langu	age and Economy (20	016)		

Module	e title				Abbreviation	
Trade P	Policy a	nd the World Trading Sy	stem		12-M-TP-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of International Eco	omics Faculty of Management and Economics			
ECTS Method of grading			Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme		graduate				
Conten						
<u>Content</u> The module starts out with a sketch of key facts and the evolution of the world trading system as well as current trade policy controversies. The main part of the lecture deals with trade policy instruments (e.g. tariffs and quo- tas) and arguments in favor of trade policy interventions (the terms of trade, strategic trade policy, infant indu- stries, industrial policy, environmental policy). Political economy issues are also addressed.						
<u>Outline</u>	<u>)</u>					
1 The e	volutio	n of the world trading sys	stem and current issu	es		
2 Trade	e policy	instruments and their ef	fects under perfect co	ompetition		
3 The c	ompeti	tion effect of trade openi	ng			
4 Dome	estic di	stortions				
5 Interr	nationa	l market power and trade	e policy			
6 Politi	cal eco	nomy and the world trad	ing system			
<u>Literatu</u>	ur:					
The ma	in text	used is:				
Helpma setts.	an, E. u	nd P.R. Krugman (1989).	Trade Policy and Mar	ket Structure. The M	IT Press, Cambridge, Massachu-	
The foll licy ma	-	monographs cover the ev	volution of the world	trading system and t	he evolution of ideas in trade po-	
Bhagwa	ati, J. (2	2002). Free Trade Today,	Princeton University I	Press		
Bhagwa	ati, J. (2	2005). In Defense of Glob	alization. Oxford Univ	versity Press		
	-	o). Free Trade Under Fire, ther material)	Princeton University	Press, 5th Edition (a	s well as former editions partially	
Irwin, D). (1996	5). Against the Tide. An In	tellectual History of F	Free Trade, Princeton	University Press	
Basic re	efreshe	ers are				
Krugma 11th Ed		, M. Obstfeld und M. Mel	itz (2018), Internation	nal Economics. Theo	ry and Policy. Addison-Wesley,	
Caves, Edition		. Jones und J.A. Frankel (:	2007), World Trade a	nd Payments. An Intr	oduction. Addison-Wesley, 10th	

Master's with 1 major Economathematics (2016)

This literature is complemented by papers from scholarly journals.

Intended learning outcomes

Students acquire the ability to critically understand the effects and issues associated with the use of trade policy instruments. They are enabled to understand and evaluate the causes and consequences of interventions in international trade on the aggregate economy, producers and consumers, the foreign trading partners and the world trading system both analytically as well as in an intuitive manner. Students also acquire the scientific knowledge to grasp the factors determining the structure and dynamics of the world trading order.

Courses (type, number of weekly contact hours, language - if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 120 minutes) or

b) term paper (approx. 15 to 20 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) Media Communication (2016)

Master's degree (1 major) China Language and Economy (2016)

Master's degree (1 major) Media Communication (2018)

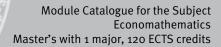
Master's degree (1 major) Media Communication (2019)



Strategic Marketing Management

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module	e title				Abbreviation		
Interna	tional	Marketing			12-M-IMM-161-m01		
Module	e coord	inator		Module offered by			
holder ting	of the (Chair of Business Admi	nistration and Marke-	Faculty of Managem	nent and Economics	i	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites	i			
1 seme	ster	graduate					
Conten	ts						
(stage I nal con nalisati as a tin ket ent Outline 1. Inter • C 2. Inter • M • T • In 3. Theo • F • M • In	I studie itexts. T ion stra ning of ry and I e of syll nationa lobalis compet nationa Market o iming s nternat oreign Aultina nternat	alisation of the econom	natic introduction to str inly by Porter's diamon ountry analyses and de evelopment. In addition y and regional integrate industries and compan ecisions	rategic marketing dec nd and cluster model ecisions on the selec n, the module discus	cisions in global and ls. Another focus is tion of national ma sses different strate	d internatio- on internatio- rkets as well	
on).	, H. / B , R. / Fa	urmann C. / Becker, C. Intapié-Altobelli C. / Sa			-		
Intende	ed lear	ning outcomes					
the inte of inter	ernation nation	uire in-depth skills in th nal context. Students a al business decisions a vally-active companies.	chieve particular exper	tise in the analysis,	assessment and im	plementation	
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)			
V (2) +	Ü (2)						
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
		nation (approx. 60 min ssessment: German an					
Allocat							
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 86 / 590	

Additional information
Workload
150 h
Teaching cycle
Teaching cycle: after announcement
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)

Module	e title				Abbreviation	
Strateg	gic Mar	keting			12-M-SM-161-m01	
Module	e coord	inator		Module offered by		
holder ting	of the (Chair of Business Admin	nistration and Marke-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten						
	dule ra	ises awareness in stud ical competitive proces		and necessity of strat	tegic management ir	n a competiti-
discuss	on the ses the of the m	marketing strategies as roots of the concept of odule is on thinking in	strategy in marketing	based on Drucker, Po	orter, Ansoff and Mir	ntzberg. The
1. Com 2. Mark 3. Obje 4. Com 5. Grow 6. Futur 7. Natu	petitive keting s ctives a petitive th stra re tech re and	e dynamics requires stra strategies, stakeholder and tasks of corporate g e forces, strategies and tegies and marketing m nologies, new business principles of responsib	management and entro governance in manage benefits according to nyths ses and dynamic capat	ment practice Nichael Porter		
Eschen bis Ulri Freema	d, CI (19 bach, I ch, 5th in, RE (2	938): The Functions of t R.; Eschenbach, S.; Kun ed., Schäffer-Poeschel 2010): Strategic Manag lippa, M. (2006): Strate	esch, H. (2008): Strate Stuttgart. ement: A Stakeholder	egische Konzepte: M Approach, Cambridg	anagement-Ansätze e University Press.	von Ansoff
	uber, H	rategien, 5th ed., Pears I. H. (2011): Strategisch		ng I. Strategisches	Denken, 8th ed., Eri	ich Schmidt
Hunger Gabler,	nberg, I Wiesb	H. (2012): Strategisches aden.	-			
Hall Ha Kotler,	rlow. P.; Ber	choles, K.; Whittington ger, R.; Bickhoff, N. (20 pnaway RN (2014): The F	10): The Quintessence	of Strategic Manage	ment, Springer, Heic	lelberg.
ty, and Meffert	Ethics, , H.; Bı	Cengage Stamford. Irmannn, C.; Kirchgeorg Gabler, Wiesbaden.		-		
nehmu	ng, Gal	95): Ökonomische Orga oler, Wiesbaden. 1s, G.; Lechner, C. (2011		_		
Porter, Porter,	M. (199 M. (20)	., Schäffer-Poeschel St 99): Wettbewerb und St 14): Wettbewerbsvortei k. (Original: Porter, M.:	rategie, Econ Munich. le Spitzenleistungen	erreichen und behau		
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 88 / 590

Porter, M. (2013): Wettbewerbsstrategie -- Methoden zur Analyse von Branchen und Konkurrenten, 12th ed., Campus, Frankfurt / New York. (Original: Porter, M.: Competitive Strategy, New York, 1980) Welge, M. K.; Al-Laham, A. (2012): Strategisches Management: Grundlagen -- Prozesse -- Implementierung, 6th ed., Springer Wiesbaden.

Intended learning outcomes

The students have a deeper understanding of the sustainable corporate management and have the basics of the competitive process and competitive dynamics available. In addition, they can use the acquired knowledge, while taking into account the conventional problems of the strategic and sustainable management, to solve business case studys on their own.

Courses (type, number of weekly contact hours, language – if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes)

Language of assessment: German and/or English

Allocation of places

--

Additional information

--

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)



Compulsory Core Electives

(10 ECTS credits)

Module	e title				Abbreviation	
Strateg	gic Net	works in Industry			12-M-MS-161-m01	
Module	e coord	linator		Module offered by	<u> </u>	
		aculty of Business Mana	gement and Econo-		nent and Economics	;
mics		•	- -			
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
fication The foc ble inn Outline 1. Strat 2. Trans plier 3. Man 4. Clust	n of the cus is o ovation of syll cegic ne saction s ageme ter and	etworks and clusters in i a types of Williamson as nt of business types, in entrepreneurship activi	I companies and also ent strategy types of so ndustrial industries so well as strategic coop particular the busines	on CSR - CSR is consustainable innovatio ustainable innovatio uch as the automotiv peration between aut	sidered the "driver" ns. re industry omobile manufactu	of sustaina- rers and sup-
-		e innovation strategies	_			
		ning outcomes				
		the course, students ga s will aquire sectoral kno				
		· · · · ·		•		SKIIIS.
V (2) +	-	number of weekly contact hours	, language — Ir otner than Ge	rman)		
		Sessment (type, scope, langu	if other then Common	in-tion offered if a		
		ble for bonus)	lage — Il other than German,		it every semester, mormat	tion on whether
		nation (approx. 60 minu assessment: German and				
Allocat						
		<u>.</u>				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi		e				
		e: no courses offered				
	<u> </u>		na fanta al lucal d			
		LPO I (examination regulatio	ns for teaching-degree progra	ammes)		
Module			emetice (e.c. ()			
	-	ee (1 major) Economath		016)		
	-	ee (1 major) Business In ee (1 major) Business M	•	010)		
	-	ee (1 major) Busiless M ee (1 major) China Busir		2016)		
	-	ee (1 major) Internation				
muster				<u>ر - ر</u>		
Master's w	ith 1 maio	r Economathematics (2016)	IMIL Würzburg	generated 19-Apr-2025 • exa	am reg da-	page 91 / 590

Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021)

	e title				Abbreviation	
Brand	Manag	ement & Market Resea	rch		12-M-MM-161-m01	
Modul	e coord	inator		Module offered by	l	
		aculty of Business Mana	agement and Econo-		nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	Its					
ment a organis quirem Outline 1. Bran	pproac sation o ents re e of syll d leade id leade	ership and brand asses ership, identity and rele	ed to be seen as the er roadly speaking - for s istainable positioning sment	ntrepreneurial task o ociety on the other h of the brand as well	f creating "shared v and. This idea leads as brand manageme	alue" for the s to high re-
4. Cons 5. Mark	sumer l ket rese	behaviour earch methods and the earch methods	development of brand	strategies		
		ning outcomes				
which which which which which which which we have a second	will be tools, i	theories of Meffert and deepened by many prac it's the defined goal of t nd management.	cital implications and	examples. Provided I	by cases studies and	d market re-
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		nation (approx. 60 mini ssessment: German an				
Allocat	ion of _l	places				
			-			
	onal inf	ormation				
 Additic		ormation				
 Additic Worklo		ormation				
 Additic Worklo 150 h	ad					
 Additio Worklo 150 h Teachi	oad ng cycl	e				
 Additic 150 h Teachin Teachin	ng cycl ng cycl	e e: no courses offered				
 Additic 150 h Teachin Teachin	ng cycl ng cycl	e	ons for teaching-degree progra	ammes)		
 Additio 150 h Teachin Teachin Referre	ng cycl ng cycle ed to in	e e: no courses offered LPO I (examination regulation	ons for teaching-degree progra	ammes)		
 Additic 150 h Teachin Teachin Referre Module	ng cycl ng cycl ed to in e appea	e e: no courses offered LPO I (examination regulation ars in		ammes)		
 Additic 150 h Teachin Teachin Referre Module	ng cycl ng cycl ed to in e appea	e e: no courses offered LPO I (examination regulation	ematics (2016)			

Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)

Module title					Abbreviation	
Industrial Management 1 12-M-SBM-161-m01						
Module	coord	inator		Module offered by		
holder of the Chair of Business Management and Industrial Faculty of Management and Economics Management						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
(purcha	ising, r	dresses central issues c naterials management, leveloped that are releve	procurement logistics)			
Intende	ed leari	ning outcomes				
Students learn the principles of performance-oriented optimization of all procurement activities to develop long- term, competitively sensitive potential for success. After completion of the module students are able to prepa- re structured, to goal-oriented analyze and to respond to performance-oriented issues of strategic procurement based on key instruments. Students are able to accurately classify the tasks of the procurement and to describe and discuss their strategic importance and dominate essential methods and procedures used in this area to ap- ply.					e to prepa- rocurement to describe	
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ger	rman)		
V (2) + Ú Course		Iternatively eLearning, S	5, WS			
Method	l of ass	essment (type, scope, langu	age — if other than German, o	examination offered — if no	t every semester, informati	on on whether
		le for bonus)				
a) written examination (approx. 40 to 60 minutes) or b) presentation (approx. 20 minutes) and term paper (approx. 15 to 20 pages); (weighted 1:1) or c) term paper (approx. 30 to 40 pages) Language of assessment: German and/or English creditable for bonus						
Allocation of places						
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available.						
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: after announcement						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016)						
	-	ee (1 major) Business In ee (1 major) Business M)16)		
		Economathematics (2016)		generated 19-Apr-2025 • exa	ım, reg. da-	page 95 / 590
		(2010)	-	(120 ECTS) Wirtschaftsmathe	-	P~5~ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7



Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					
Strategic Managerial Accounting 12-M-INST-161-m01					
Module coordinator				Module offered by	l
holder of the Chair of Business Management, Controlling and Accounting			ement, Controlling	Faculty of Managen	nent and Economics
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
5					
5 numerical grade Duration Module level Other prerequisites					
1 semester graduate					
Conter		Sidudite			
The module focuses on accounting instruments, which are applied in the context of strategic management of enterprises. First, it addresses important drivers of strategic decisions from a microeconomic perspective, such as the emergence of cost and quality advantages in competition as well as scale and experience curve effects. Second, the module covers analytical and heuristic techniques of planning and control. In the context of these techniques, instruments of target costing, life cycle cost analysis, benchmarking and business wargaming are discussed with regard to their theoretical foundation and fields of application. Intended learning outcomes Initially, knowledge about fundamental requirements concerning instruments of decision-making and behavior control within enterprises is acquired. What is more, the module conveys obtaining knowledge about the strengths and weaknesses and therewith fields of application and limits of prevalent instruments of strategic corporate management used by practitioners. Courses (type, number of weekly contact hours, language – if other than German) $V(2) + U(2)$ Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English					
	tion of _l				
Additio	onal inf	ormation			
Worklo	bad				
150 h					
	ng cycl	e			
		e: summer semester			
		LPO I (examination regulation	s for teaching-degree progra	ammes)	
Modul	e appea	ars in			
Master's degree (1 major) Economathematics (2016)					
Master's degree (1 major) Business Information Systems (2016)					
	-	ee (1 major) Business Ma			
	-	ee (1 major) China Busin			
	-	ee (1 major) Internationa		-	
Master	r's degr	ee (1 major) China Langu	age and Economy (20	016)	

Module title Abbreviation					Abbreviation
Coord	Coordination, Budgeting and Incentives in Companies 12-M-KOBO-161-mo1				
Module coordinator Module offered by					
	r of the (ccountir	Chair of Business Mana	igement, Controlling	Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)	
5	nume	rical grade			
Duration Module level Other prerequisites					
1 sem	ester	graduate			
Conte	nts				
course as info	e first di ormatio	scusses the role of acc	ounting in the context s, the most common ir	of decision-making an arright of the second se	ecentralized enterprises. The and behavioral controlling as well ioral controlling (budgeting, va- and practice.
Intend	led lear	ning outcomes			
quiren	nents or		behavioral control are		enterprises. Knowledge about re- betences for deployment, struc-
Cours	es (type, r	number of weekly contact hour	s, language — if other than Ge	erman)	
V (2) +	- Ü (2)				
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, information on whether
		nation (approx. 60 min ssessment: German an			
Alloca	tion of _l	olaces			
Additi	onal inf	ormation			
Workl	oad				
150 h					
Teach	ing cycl	e			
Teach	ing cycl	e: winter semester			
		LPO I (examination regulati	ons for teaching-degree progra	ammes)	
Module appears in					
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016)					
Maste	r's degr	ee (1 major) China Dasi ee (1 major) Internation ee (1 major) China Lang	al Economic Policy (20	015)	

Module	e title				Abbreviation
Business Software 1: IS-based Enterprise Management			12-GPU-161-m01		
Module coordinator Module offered by				I	
Dean of the Faculty of Business Management and Econo- mics					nent and Economics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
stems a busines which f Section The firs pany. S	are cen ss proc focuses n 1: ERP st part c fudent case stu	tral building blocks in mo esses, data management on practical application selection process with a of the module is dedicate s are familiarized with pr	odern business mana t and decision-makin s and examples in ad pplication examples d to the complex pro oven methods and to	agement and play a c og. This module is div Idition to theory. of two ERP systems cess of selecting a s pols that are used in	e Planning (ERP) systems. ERP sy- crucial role in the integration of vided into three sections, each of uitable ERP system for a com- the evaluation of ERP systems. selection process in a real-life en-
Section 2: Low-code and no-code systems with application examples In this part, students are familiarized with low-code and no-code platforms that enable the efficient development of individual ERP applications. The focus is on dealing with a specific software solution from a leading compa- ny in this field. Students learn the basics of these platforms and create their own applications in order to experi- ence the advantages of low-code and no-code approaches in practice.					
In the fi system	inal pa SAP S	4HANA. Students are en	ics of customizing EF abled to adapt SAP S	RP software. The focu /4HANA to the spec	us is on the world's leading ERP ific requirements of a company. niques in real-life scenarios.
					offer the opportunity to access ans of extensive case studies.
Intende	ed lear	ning outcomes			
 The "Business Software 1: Management and Implementation of Information Systems" module aims to achieve the following learning outcomes: 1. ERP Systems - Overview and Differentiation: Students gain a comprehensive understanding of various ERP systems, their architectures, and philosophies. 2. Integration of Business Processes: Participants learn how ERP systems map and optimize business operations. 3. Selection and Customizing of ERP Systems: Students develop skills to evaluate, select, and adapt ERP systems to meet business needs. 4. Implementation of Business Processes: Students gain practical experience in independently implementing business processes in ERP and low-code/no-code platforms, and learn practical ERP customizing. 					
		umber of weekly contact hours, l	· · · · ·		<u> </u>
V (2) +		,			
Methoo module is	d of ass creditab	le for bonus)		examination offered — if no	ot every semester, information on whether
a) written examination (approx. 60 minutes) or					

b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or
c) term paper (approx. 15 to 20 pages)
Language of assessment: German and/or English

Assessment offered: Once a year, winter semester

creditable for bonus

Allocation of places

20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

WUIKIUa

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					Abbreviation
Management and Leadership in Organizations					12-MFO-161-m01
Module coordinator Module off				Module offered by	
Dean of the Faculty of Business Management and Econo- mics			anagement and Econo-	Faculty of Management and Economics	
ECTS	Meth	od of grading	Only after succ. cor	Only after succ. compl. of module(s)	
5	nume	rical grade			
Duration Module level Othe		Other prerequisites	Other prerequisites		
1 semester graduate					
Contents					

Part I:

The complexity of the modern work environment and the constantly changing organisational structures of companies lead to a demand for young mangers with a high diversity of expertise that are able to play their part in managing the organisational world. The lecture will provide students with an insight into the characteristics, tasks and instruments as well as the challenges of management in organisations and situations that are becoming ever more complex.

Outline of syllabus:

- Introduction -- Power in the daily management routine
- Fundamentals of management in complex organisations
- Tasks and instruments of management
- Leadership in an intercultural context
- Assurance of employability
- Conclusion -- Management of supervisors and colleagues

Part II: Today's world of work is characterised by continuous change in a global context. Mergers, integrations and acquisitions - these are key terms in this context.

The majority of change processes does not have the desired effect or even fails. This is not least due to the fact that not enough attention is paid to the complexity of these processes and to employees.

The support and integration of successful change processes is a central responsibility of managers as well as a complex and central task that requires sound preparation.

Outline of syllabus:

- Introduction typical change scenarios
- Psychological basics and concepts
- Approaches and control in change projects
- Measures and instruments of change management
- The role of management
- Conclusion example of application acquisitions and cases

Intended learning outcomes

Part I: Course objectives:

- Provide a widespread insight into the current status of theory and practice regarding management in complex organizations
- Introduction of essential tasks and instruments of managers and their apply to authentic cases.
- To illustrate and reflect the tensions of management in complex situations and international context Part II: Course objectives:

Provide a widespread insight into the current status of theory and practice regarding changes

- Introduction, suitability of daily use and critical reflection of essential concepts, models and methods
- Foster the understanding for the necessity, complexity of changes as well as their constraints and barriers.

Courses (type, number of weekly contact hours, language – if other than German)

V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus
Allocation of places
Additional information
Workload
150 h
Teaching cycle
Teaching cycle: no courses offered
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation			
E-Busiı	E-Business Strategies 12-M-IBS-161-m01							
Module coordinator				Module offered by				
holder of the Chair of Information Syste			stems Engineering	Faculty of Management and Economics				
ECTS	Meth	od of grading	Only after succ. cor	Only after succ. compl. of module(s)				
5	nume	rical grade						
Duratio	on	Module level	Other prerequisites	Other prerequisites				
1 seme	ster	graduate						
Conten	its							
industr applied	ries and d to dig	rovides an overview of d value networks. To th ital innovations and ill nown digital companie:	is end, concepts and fr ustrated with numerou	rameworks from strat s examples. In the ac	egic technology mar ccompanying exercis	nagement are		
Intend	ed lear	ning outcomes						
logies.	differe	theoretical concepts of nt frames of reference						
		concepts to real busine	ess situations					
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)				
V (2) +	Ü (2)							
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether		
a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English creditable for bonus						; groups of 3:		
Allocat	ion of	places						
40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places, places will be allocated by lot among applicants from this group.								
Additio	onal inf	ormation						
Workload								
150 h								
Teaching cycle								
Teaching cycle: winter semester								
Referred to in LPO I (examination regulations for teaching-degree programmes)								
Module appears in								
	-	ee (1 major) Economatl ee (1 major) Business I		016)				
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 103 / 590		

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation
Interna	International Trade and the Multinational Firm 12-M-ITMF-161-m01				
Module coordinator				Module offered by	
holder of the Chair of International Ecor			omics Faculty of Management and Economics		nent and Economics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5		rical grade			
Duratio		Module level	Other prerequisites		
1 seme		graduate	<u> </u>		
Conten					
scher-C trade. T the sta)hlin) fo The fina ndard r	ollowed by theories base	d on monopolistic an geneity and multinati	d oligopolistic comp	advantage (Ricardo and Heck- petition to explain intra-industry ermits the Armington model and
<u>Outline</u>					
l Ricard	lian Tra	de Theory			
II Hecks	scher-C	hlin Trade Theory			
III New	Trade 1	Theory: Intra-Industry Tra	de, Increasing Return	s to Scale, Imperfect	t Competition
IV Firm	Hetero	geneity, Trade and FDI			
V The M	Aultina	tional Firm			
<u>Literatu</u>	ire:				
further	referer				detailed list of references with lecture. Material from the followi-
Helpma	an, E. (2	2011). Understanding Glo	bal Trade. Princeton	University Press.	
Feenstr Edition		(2016). Advanced Interna	ational Trade. Theory	and Evidence. Prince	eton University Press, Second
Caves,	R., R.W	. Jones and J.A. Frankel (2007). World Trade a	nd Payments. Addisc	on Wesley
Bhagwati, J., A. Panagariya and T. N. Srinivasan (1998). Lectures on International Trade. Second Edition. MIT Press					
Gandolfo, G. (1998). International Trade Theory and Policy. Springer-Verlag, Berlin and New York					
Markusen, J.R., J.R. Melvin, W.H. Kaempfer, K. E. Maskus (1995). International Trade. McGrawHill					
Barba Navaretti, G. and A.J. Venables (2004). Multinational Firms in the World Economy. Princeton University Press					
Intended learning outcomes					
ments	The students acquire the ability to critically understand the causes and drivers of world trade and the develop- ments of specialization patterns in the global economy. They learn to analyze, discuss and defend these deve- lopments and to apply the tools and methods to evaluate controversies associated with the ongoing deepening				

of the international division of labor, in particular the repercussions of the global economy on national economies.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)



Industrial Management

(20 ECTS credits)





Compulsory (15 ECTS credits)

Module title Abbreviation						
Industri	ial Mar	nagement 1			12-M-SBM-161-m01	
Module	coord	inator		Module offered by		
holder of the Chair of Business Management and Industrial Faculty of Management and Economics Management						
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	5 numerical grade					
Duratio	n	Module level	Other prerequisites			
1 semes	1 semester graduate					
Content	ts					
(purcha	ising, n	dresses central issues c naterials management, leveloped that are relev	procurement logistics)			
Intende	ed learn	ning outcomes				
term, co re struc based c	Students learn the principles of performance-oriented optimization of all procurement activities to develop long- term, competitively sensitive potential for success. After completion of the module students are able to prepa- re structured, to goal-oriented analyze and to respond to performance-oriented issues of strategic procurement based on key instruments. Students are able to accurately classify the tasks of the procurement and to describe and discuss their strategic importance and dominate essential methods and procedures used in this area to ap-					
Courses	S (type, n	umber of weekly contact hours,	language — if other than Ger	man)		
	V (2) + Ü (2) Course type: alternatively eLearning, S, WS					
		essment (type, scope, langu le for bonus)	age — if other than German, e	examination offered — if no	t every semester, informati	on on whether
b) prese c) term	entatio paper ge of a	nination (approx. 40 to n (approx. 20 minutes) (approx. 30 to 40 pages ssessment: German and bonus	and term paper (appro)	ox. 15 to 20 pages); (weighted 1:1) or	
Allocati	ion of p	olaces				
by lot a number	mong a r of pla	Should the number of a all applicants irrespectiv ces will be allocated in s they become available	ve of their subjects. (2) the same procedure. () Places on all course	es of the module wit	h a restricted
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachin	ng cycl	е				
Teachin	ng cycle	e: after announcement				
Referre	d to in	LPOI (examination regulatio	ns for teaching-degree progra	mmes)		
Module	appea	ars in				
		ee (1 major) Economath				
	-	ee (1 major) Business In	•	016)		
		ee (1 major) Business M				
Master's wit	th 1 major	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 109 / 590



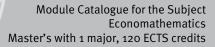
Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					Abbreviation	
Industri	ial Mar	nagement 2			12-M-LA-161-m01	
Module	coord	inator		Module offered by		
holder o Manage		Chair of Business Manage	ement and Industrial	Faculty of Managem	ent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
method	ls and i		scheduling. The focus	s is on the determina	ntrol. In addition, it develops ation of optimal production and	
Intende	d lear	ning outcomes				
the dete sequen cies are tative m le stude can also	Students learn essential concepts, principles and methods of production planning and control with emphasis on the determination of optimal production and transport volumes as well as the planning of production and order sequences. Then, based on this expertise related knowledge broadening and deepening, essential competencies are conveyed, which allow the imaging of realistic situations and problems using mathematical and quantitative models for the derivation and assessment of alternative courses of action. After completion of the module students can answer, analyze and structure questions of production planning and control, goal-oriented. They can also arrange the planning areas in the overall business context and have an in-depth overview of the production planning and control.					
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + ĺ Course		lternatively eLearning, S,	WS			
		e ssment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) prese c) term	entatio paper ge of a	nination (approx. 40 to 6 n (approx. 20 minutes) a (approx. 30 to 40 pages) ssessment: German and/ bonus	nd written elaboratio	n (approx. 15 to 20 p	ages); weighted 1:1 or	
Allocati	ion of p	olaces				
by lot a number	mong a r of pla	all applicants irrespective	of their subjects. (2)) Places on all course	e places, places will be allocated es of the module with a restricted be maintained and places re-allo-	
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachin	ig cycl	e				
Teachin	ıg cycle	e: after announcement				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	appea	ins in				

Master's degree (1 major) Economathematics (2016)

Master's with 1 major Economathematics (2016)

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Wirtschaftsmathematik - 2016



Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation		
Industr	Industrial Management 3 12-M-SPM-161-mo1						
Module	e coord	inator		Module offered by			
holder	of the (Chair of Business Manag	ement and Industrial	Faculty of Managem	nent and Economics		
Manag	ement						
ECTS	1	od of grading	Only after succ. con	pl. of module(s)			
5	·	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	1 semester graduate						
Conten	ts						
ning an Studen cal moo princip	nd cont Its will I dels wi Ies of v	vill discuss contents and rol concepts. become familiar with the Il be used for analysing l alue structure optimisat ical models.	e essentials of strateg both economic and ec	ic production manag ological issues. In a	ement. Theoretical a ddition, the module	and analyti- will discuss	
Intende	ed learı	ning outcomes					
strateg the ma concep	y struct in strat ots for t	on of the module studer tured and goal-oriented egic tasks and objective he production in realistic number of weekly contact hours,	in a global context us s in production mana c application situatior	ing appropriate meth gement and evaluate ns.	ods. Furthermore, t	hey know	
V (2) +			language — Il other than der	ilidi)			
. ,	• •	Ilternatively eLearning, S	s, WS				
		sessment (type, scope, langule for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
b) pres c) term	entatio paper age of a	mination (approx. 40 to 6 n (approx. 20 minutes) a (approx. 30 to 40 pages) ssessment: German and bonus	and term paper (appro	ox. 15 to 20 pages); (weighted 1:1) or		
Allocat	ion of p	olaces					
by lot a numbe	among a r of pla	Should the number of a all applicants irrespectiv ces will be allocated in t s they become available	e of their subjects. (2 he same procedure. () Places on all course	es of the module wit	h a restricted	
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	е					
Teachir	ng cycle	e: after announcement					
Referre	ed to in	LPO I (examination regulation	is for teaching-degree progra	mmes)			
Module	e appea	urs in					
	-	ee (1 major) Economathe ee (1 major) Business Inf		016)			
Master's wi	ith 1 majoı	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 113 / 590	

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Compulsory Core Electives

(5 ECTS credits)

Module title Abbreviation					Abbreviation	
Industri	ial Mar	nagement 4			12-M-BE-161-m01	
Module	coord	inator		Module offered by		
holder o Manage		Chair of Business Manage	ement and Industrial	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
ses with	n a spe	cial focus on catalogue-b	based procurement sy	stems, electronic te	v supported procurement proces- ndering systems, electronic (re- d eSupply chain management sy-	
Intende	d learr	ning outcomes				
cureme sight in talog-ba supplie dule, st	The students will be able to describe and evaluate both the potentials and goals of electronic supported pro- curement systens and will be able to design appropriate systems for real-life applications. Students will get in- sight into the essentials of operational procurement management, especially e-procurement with a focus on ca- talog-based procurement systems, electronic tendering systems, electronic (reverse) auctions, e-marketplaces, supplier relationship management systems and eSupply chain management systems. After completing this mo- dule, students can define and analyze the related tasks and processes and show or develop theory-based and application-oriented possible solutions at a high professional level.					
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + ĺ Course		Iternatively eLearning, S,	WS			
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) prese c) term d) entire	entatio paper ely or p ge of a	nination (approx. 40 to 6 n (approx. 20 minutes) a (approx. 30 to 40 pages) partly computerised writte ssessment: German and/ bonus	nd term paper (appro or en examination (appr		weighted 1:1) or	
Allocati	ion of p	olaces				
de for s Econom	tudent nics an	s of the Master's degree	programmes Busines	s Management and	laces, 15 places will be set asi- International Economic Policy or ogramme Wirtschaftsinformatik	
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachin						
		e: after announcement				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	appea	ars in				

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	e title				Abbreviation
Advanc	ed Op	erations & Logistics Man	agement		12-M-AOLM-161-m01
Module	e coord	inator		Module offered by	
holder	older of the Chair of Logistics and Quantitative Method			Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)	
5		rical grade		•	
Duratio	•	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten		Siddate	1		
plannir	ng of in				s with advanced methods for the application of these with the help
Intende	ed lear	ning outcomes			
(ii) dev (iii) eva (iv) app	elop ar aluate t oly con	d evaluate integrated pro nd apply appropriate met he consequences of unco cepts and methods to pla	hods to plan complex ertainties in processe an uncertainties proce	c production and log s, and esses.	istics systems;
	_	number of weekly contact hours, I	language — If other than Ger	man)	
V (2) +					
		5essment (type, scope, langua ole for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
b) term	i paper ige of a	mination (approx. 60 mir (approx. 15 to 20 pages) ssessment: German and bonus			
Allocat	ion of _l	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachi	ng cycl	e: summer semester			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
			-		
Module	e appea	ars in			
Master	's degr	ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Inf	· ·	016)	
	-	ee (1 major) Business Ma			
	-	ee (1 major) China Busine			
Mactor	's degr	ee (1 major) International	/	`	
	-	ee (1 major) China Langu	l Economic Policy (20	-	

	e title				Abbreviation	
Global Logistics & Supply Chain Management12-M-GLSC-161-m01						
Module	e coord	inator		Module offered by	<u> </u>	
holder	of the	Chair of Logistics and Qu	antitative Methods	Faculty of Manager	nent and Economics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
5	; numerical grade					
Duratio	•	Module level	Other prerequisites			
1 seme		graduate				
Conten		Sidduite	L			
	ng of gl				with advanced methods for the ese with the help of multiple cas	
Intend	ed lear	ning outcomes				
(ii) dev	elop ar aluate t	d evaluate global produc nd apply appropriate met he consequences of unco	hods to plan product		ts and methods to plan uncertain	
Course	S (type, 1	number of weekly contact hours,	anguage — if other than Gei	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
b) term	paper age of a	mination (approx. 60 mir (approx. 15 to 20 pages) Issessment: German and bonus	·			
Allocat	ion of	places				
Additio	onal inf	ormation				
Additio	onal inf	ormation				
		formation				
		ormation				
 Worklo	ad					
 Worklo 150 h Teachi	oad ng cycl					
 Worklo 150 h Teachi i Teachii	ng cycl	e e: winter semester	s for teaching-degree progra	ummes)		
 Worklo 150 h Teachi i Teachii	ng cycl	e	s for teaching-degree progra	ımmes)		
 Worklo 150 h Teachin Teachin Referre	ng cycl ng cycl ng cycl ed to in	e e: winter semester LPOI (examination regulation	s for teaching-degree progra	ımmes)		
 Worklo 150 h Teachin Teachin Referre Module Master Master Master Master	ng cycl ng cycl ed to in 's degr 's degr 's degr 's degr	e e: winter semester LPOI (examination regulation	matics (2016) ormation Systems (20 nagement (2015) ess and Economics (2	016) 2016)		

Module	e title				Abbreviation
Manag	erial A	nalytics & Decision Maki	ng		12-M-MADM-161-m01
Module	e coord	inator		Module offered by	
holder	holder of the Chair of Logistics and Quantitative Methods			Faculty of Managem	nent and Economics
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
5 numerical grade					
			Other prerequisites		
1 semester graduate					
Conten		gladdale	[
a diver	se set o				ethods to structure and solve dern methods with the help of
Intende	ed lear	ning outcomes			
(ii) app sion m (iii) imp	ly impo aking; plemen	t advanced analytical me	pirical frameworks to ethods to support dec	ision making under	that evaluate good and bad dec risk.
Course	S (type, 1	number of weekly contact hours,	language — if other than Ger	rman)	
V (2) +	Ü (2)				
		sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, information on whether
b) term	paper age of a	mination (approx. 60 mir (approx. 15 to 20 pages) ssessment: German and bonus			
Allocat	ion of	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachi	ng cycl	e: winter semester			
		LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	ars in			
		ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Inf		016)	
	-	ee (1 major) Business Ma	•		
Master	's degr	ee (1 major) China Busin	ess and Economics (2	2016)	
	's degr	ee (1 major) Internationa			

Module	title			Abbreviation	
Theory of Industrial Organization 1					12-M-Tl1-161-m01
Module	coord	inator		Module offered by	
holder	of the O	Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duration Module level Other prerequisites					
1 semester graduate					
Conten	ts				
Theory of industrial organisation: 1. Monopoly pricing Nonlinear pricing and mechanism design Dynamic pricing: experience goods, durable goods 2. Oligopoly pricing Static price and quantity competition in homogeneous and differentiated goods markets Comparative statics Equilibrium market structure 3. Dynamic competition in oligopoly markets Subgame perfect equilibrium and models of dynamic competition Repeated games and collusion 4. Strategic behaviour by incumbent firms Entry deterrence and predation Signalling and reputation 5. Behavioral Industrial Organization Reference Dependent Preferences and Framing Effects Time inconsistent behavior					
		ll be taught in English.			
		ning outcomes			
tition in conditio advanc in mark ly releva	oligop ons un ed gam ets. By ant pro	boly markets as well as so der which the predictions the theoretic tools, such a means of comprehensiv blems. They will be in a p	ophisticated pricing t of these models are s dynamic models of e exercises, they will position to read acad	echniques in monop valid. They will becc competition, for stu- apply the methods t emic papers on relat	ed theoretical models of compe- boly markets. They will learn the ome familiar with applications of dying interactions between firms they learn in class to practical- ted topics, assess the strengths I suggest possible extensions.
		number of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + (Ü (2)				
module is	creditab	le for bonus)	-	examination offered — if no	t every semester, information on whether
b) term	paper ge of a	mination (approx. 60 to 1 (approx. 15 to 20 pages) ssessment: German and, bonus			
Allocati	ion of p	olaces			
Additio	nal inf	ormation			

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation							
Theory of Industrial Organization 2 12-M-Tl2-161-m01							
Module	e coord	inator		Module offered by			
holder	of the (Chair of Industrial Econo	omics	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	f grading Only after succ. compl. of module(s)				
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	1 semester graduate						
Conten	ts						
This co Outline 1. The c nance, 2. Cont 3. Com 4. The c 5. The c 6. Inter 7. Forec Intende After cc (i) expl (ii) app (iii) rec	Description: This course discusses vertical contracts in supply chains and their impact on competition. Outline of syllabus: 1. The classic problem of double marginalisation and its solution by nonstandard contracts (resale price mainte- nance, nonlinear pricing (rebates), exclusive territories, exclusive dealing etc.) 2. Contracts for service 3. Common agency 4. The delegation principle 5. The commitment problem 6. Interlocking relationships 7. Foreclosure by vertical contracts or mergers Intended learning outcomes After completing the course students are able to (i) explain the results of theoretical industrial economics on vertical contracts; (ii) apply the involved methods to given simple examples on their own;						
		e impact of certain vert					
	S (type, n	umber of weekly contact hours	, language — if other than Ger	man)			
		s essment (type, scope, langu le for bonus)	lage — if other than German,	examination offered — if no	t every semester, informati	on on whether	
b) term Langua	paper ge of a ment o	mination (approx. 60 to (approx. 15 to 20 pages ssessment: German an ffered: In the semester bonus) d/or English	offered			
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
		e: no courses offered					
		LPO I (examination regulation	ns for teaching-degree progra	mmes)			
		_	· · · ·				
Module	e appea	irs in					
Master's wi	ith 1 majoi	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 123 / 590	

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Modul	e title				Abbreviation
Projec	t Mana	gement and Control			12-M-PROM-161-m01
Modul	e coord	linator		Module offered by	L
	r of the ccounti	Chair of Business Manage	ement, Controlling	Faculty of Managen	nent and Economics
ECTS Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade			
			Other prerequisites	;	
1 semester graduate					
Conte	nts		.		
ment a metho	are cons ds and	sidered. It covers characte	eristic features and s id management of pr	tructures of projects, ojects in various pro	pproaches to project manage- , their possible success factors, ject phases. The theoretical basis
Intend	led lear	ning outcomes			
fields thin th	of appli ie confi	cation and limits of comr	nonly used instrume	nts and methods of p	and weaknesses and therewith practitioners. Competences wi- as well as skills within the practi-
Course	es (type,	number of weekly contact hours, l	anguage — if other than Ge	rman)	
V (2) +	Ü (2)				
		s essment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
		nation (approx. 60 minut issessment: German and,			
Alloca	tion of	places			
Additi	onal inf	ormation			
Workl	oad				
150 h					
-	ing cycl	e			
		e: winter semester			
		LPO I (examination regulation	s for teaching-degree progra	ammes)	
Modul	e appe	ars in			
Maste		ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Economathe ee (1 major) Business Ma			
Maste	r's degr	ee (1 major) Economathe ee (1 major) Business Ma ee (1 major) China Busine	nagement (2015)	2016)	
Maste Maste	r's degr r's degr	ee (1 major) Business Ma	nagement (2015) ess and Economics (2		

Module title	2		Abbreviation			
Decision Su	pport Systems			12-M-DSS-161-m01		
Module coo	rdinator		Module offered by			
holder of the	e Chair of Business Analy	ics	Faculty of Managem	nent and Economics		
ECTS Met	hod of grading	Only after succ. compl. of module(s)				
5 numerical grade						
Duration	Module level	Other prerequisites	i			
1 semester graduate						
Contents						
	The course discusses advanced approaches for modelling and solving decision problems in business settings. The acquired insights are used to design and implement decision support systems using standard software tools (Python).					
Intended lea	arning outcomes					
 Under Isolate Solve stocha 						
Courses (type	e, number of weekly contact hours	, language — if other than Ge	rman)			
V (2) + Ü (2)						
Method of a module is credit	SSESSMENT (type, scope, lang table for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
b) oral exam approx. 30 r	f assessment: German an	ach: approx. 15 to 20 r	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:	
Allocation o	f places					
Master's stu on. (2) The r cordance wi allocated by	number of applications ex Idents of Wirtschaftsinfor remaining places will be a th (1) and (2) and the nun v lot among applicants fro	matik (Business Inforn llocated to students o nber of applications ex	nation Systems) will f other subjects. (3) \	be given preferentia Nhen places are allo	l considerati- ocated in ac-	
Additional i	nformation					
Workload						
150 h						
Teaching cy	cle					
Teaching cy	cle: winter semester					
Referred to	in LPO I (examination regulation	ns for teaching-degree progra	ammes)			
Module app	ears in					
Master's de	gree (1 major) Economath gree (1 major) Business Ir gree (1 major) Business N	formation Systems (2	016)			
Master's with 1 ma	ajor Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 126 / 590	

Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module	e title			Abbreviation		
E-Busiı	ness St	rategies			12-M-IBS-161-m01	
Module	e coord	inator		Module offered by	<u> </u>	
holder	of the (Chair of Information Sy	stems Engineering	Faculty of Management and Economics		
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	6		
1 seme	1 semester graduate					
Conten	Its					
industr applied	ries and d to dig	rovides an overview of d value networks. To th ital innovations and ill nown digital companie:	is end, concepts and fr ustrated with numerou	rameworks from strat s examples. In the ac	egic technology mar ccompanying exercis	nagement are
Intend	ed lear	ning outcomes				
logies.	differe	theoretical concepts of nt frames of reference				
- Trans	fer the	concepts to real busine	ess situations			
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, lang ole for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) oral approx	examir . 30 mi age of a	ssessment: German ar	each: approx. 15 to 20 r	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:
Allocat	ion of	places				
follows consid cated i ces wil	40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places, places will be allocated by lot among applicants from this group.					
Additio	onal inf	ormation				
Worklo	ad					
150 h	-		_			
Teachi						
		e: winter semester				
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)		
Module						
	-	ee (1 major) Economatl ee (1 major) Business I		016)		
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 128 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	Module title Abbreviation						
Busine	ss Soft	ware 1: IS-based Enterpr	ise Management		12-GPU-161-m01		
Module	e coord	inator		Module offered by			
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managen	nent and Economics		
ECTS Method of grading Only after succ. compl. of module(s)							
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
stems a busines which f Section The firs pany. S	The module offers a comprehensive insight into the world of Enterprise Resource Planning (ERP) systems. ERP sy- stems are central building blocks in modern business management and play a crucial role in the integration of business processes, data management and decision-making. This module is divided into three sections, each of which focuses on practical applications and examples in addition to theory. Section 1: ERP selection process with application examples of two ERP systems The first part of the module is dedicated to the complex process of selecting a suitable ERP system for a com- pany. Students are familiarized with proven methods and tools that are used in the evaluation of ERP systems. Using case studies, students compare two different ERP systems and apply the selection process in a real-life en-						
In this p of indiv ny in th	part, st ⁄idual E iis field	RP applications. The focu	vith low-code and no- us is on dealing with cs of these platforms	code platforms that a specific software s and create their ow	enable the efficient development solution from a leading compa- n applications in order to experi-		
In the fi system	inal pa SAP S	4HANA. Students are en	ics of customizing EF abled to adapt SAP S	RP software. The focu /4HANA to the spec	us is on the world's leading ERP ific requirements of a company. niques in real-life scenarios.		
					offer the opportunity to access ans of extensive case studies.		
Intende	ed lear	ning outcomes					
 The "Business Software 1: Management and Implementation of Information Systems" module aims to achieve the following learning outcomes: 1. ERP Systems - Overview and Differentiation: Students gain a comprehensive understanding of various ERP systems, their architectures, and philosophies. 2. Integration of Business Processes: Participants learn how ERP systems map and optimize business operations. 3. Selection and Customizing of ERP Systems: Students develop skills to evaluate, select, and adapt ERP systems to meet business needs. 4. Implementation of Business Processes: Students gain practical experience in independently implementing business processes in ERP and low-code/no-code platforms, and learn practical ERP customizing. 							
		umber of weekly contact hours, l	· · · · ·		<u> </u>		
V (2) +		,					
Methoo module is	d of ass creditab	le for bonus)		examination offered — if no	ot every semester, information on whether		
a) written examination (approx. 60 minutes) or							

Master's with 1 major Economathematics (2016)

b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or
c) term paper (approx. 15 to 20 pages)
Language of assessment: German and/or English

Assessment offered: Once a year, winter semester

creditable for bonus

Allocation of places

20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

WUIKIUa

150 h Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) Dusiness Management (2015) Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) Enhances and Economics (2010 Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Busine	ss Soft	ware 2: Enterprise-Resou	Irce-Planning-Systen	ns	12-M-ERP-161-m01	
Module	e coord	inator		Module offered by		
Dean o mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 semester graduate						
Conten	ts					
in ente	rprises.				analysis of business processes port real-time decision-making	
Intende	ed learr	ning outcomes				
 Undeculation culation culation culation culation culation culation concerning concerning concerning concerning culation <	 Intended learning outcomes The module "Business Software 2: Data-driven Business Process Management and Automation" aims to achieve the following learning outcomes: 1. Understanding of Business Process Management: Upon completion of the course, students will be able to articulate the fundamental theories and practical methodologies of Business Process Management. This includes the ability to analyze, redesign, and implement improved business processes both manually and using automated tools. 2. Application of Modern Data Management Techniques: Students will acquire competencies in modern data management practices that are essential for real-time decision-making in business contexts. 3. Conducting Process Mining: Students will develop skills in process mining, enabling them to extract data from event logs and analyze this information to uncover inefficiencies and opportunities within business processes. They will learn to apply process mining tools and techniques to real datasets, interpret results, and propose actionable improvements. 4. Implementation of Process Automation Solutions: The course equips students with the knowledge and skills to automate business processes for automation, design automation software such as UiPath. Students will learn to identify suitable processes for automation, design automation workflows, and implement these systems to enhance operational efficiency. 5. Engagement in Scientific Research and Practical Application: Students will expand their academic and practical understanding by engaging with fundamental research papers in the field of Business Process Management. They will also gain practical experience through case studies and hands-on projects, allowing them to effectively apply theoretical knowledge to solve real-world problems. 6. Development of Professional Competencies: Throughout the course, students will develop a range of professional skills, including critical thinking, problem-solving, teamwork					
		umber of weekly contact hours, l	anguage — If other than Ger	iiidii)		
V (2) + Ü (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English Assessment offered: Once a year, summer semester creditable for bonus						

UNIVERSITÄT WÜRZBURG

Allocation of places

20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Master's with 1 major Economathematics (201	6)
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	e title				Abbreviation		
Analytical Information Systems					12-Bl-161-m01		
Module coordinator				Module offered by			
		aculty of Business Man	agement and Econo-		nent and Economics		
mics				racatly of manager			
ECTS	Meth	od of grading	ding Only after succ. compl. of module(s)				
5	numerical grade						
Duration Module level Other prerequisites							
1 seme	ester	graduate					
Conten	nts	•					
cus is o	on indi	ovides an overview of t vidual quantitative met e for participation in this	hods of data analysis.				
Intend	ed lear	ning outcomes					
		rovides students with k	nowledge of:				
		nousing & OLAP	d mothodo of data and	lucic			
		al application areas and		•			
		number of weekly contact hour	s, language — if other than Ge	rman)			
V (2) +							
		sessment (type, scope, lang ble for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether	
		nation (approx. 60 min					
		assessment: German ar	ıd/or English				
credita							
Allocat		places					
on. (2) cordan	r's stud The re Ice with	umber of applications e ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat	r's stud The re ice with ed by l	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the nu	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat	r's stud The re ice with ed by l	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat	r's stud The re ice with ed by l onal inf	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic	r's stud The re ice with ed by l onal inf	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo	r's stud The re ace with red by l ronal inf	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the nu ot among applicants fro formation	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo 150 h Teachin	's stud The re ace with ed by I onal inf oad	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the nu ot among applicants fro formation	rmatik (Business Inforr allocated to students o mber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additio Worklo 150 h Teachin	r's stud The re ice with ed by l onal inf oad ng cycl	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the nur ot among applicants fro formation	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additio Worklo 150 h Teachin	r's stud The re ice with ed by l onal inf oad ng cycl	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the nu ot among applicants fro formation	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additio Worklo 150 h Teachin Teachin Referre	r's stud The re ace with ed by l onal inf oad ng cycl ed to in	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulati	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo	s stud The re- ace with ed by I onal inf oad ng cycl ed to in e appe	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the num ot among applicants fro formation e: summer semester LPO I (examination regulati	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo	r's stud The re ace with ed by l onal inf oad ng cycl ed to in e apper	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the num ot among applicants fro formation e: summer semester LPO I (examination regulati ars in ree (1 major) Economath	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additio Worklo 150 h Teachin Teachin Referre Module Master Master	r's stud The re ace with ed by I onal inf oad ng cycl ed to in e appea r's degr	ents of Wirtschaftsinfo maining places will be a n (1) and (2) and the num ot among applicants fro formation e: summer semester LPO I (examination regulati	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Module Master Master Master	r's stud The re ace with ed by I onal inf oad ng cycl ed to in e appea r's degr r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulati ars in ree (1 major) Economath ree (1 major) Business I	rmatik (Business Inforr allocated to students o mber of applications e om this group.	nation Systems) will f other subjects. (3) ' xceeds the number o ammes) 016)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo Master Master Master Master	r's stud The re- ace with ed by I onal inf oad ng cycl ed to in e appe r's degr r's degr r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the num ot among applicants fro formation e: summer semester LPO I (examination regulati ars in ree (1 major) Economath ree (1 major) Business I ree (1 major) Business I	rmatik (Business Inforr allocated to students o mber of applications e om this group. ons for teaching-degree progr nematics (2016) nformation Systems (2 Aanagement (2015) ness and Economics (2	nation Systems) will f other subjects. (3) xceeds the number o ammes) 016) 2016)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Yorklo 150 h Teachin Teachin Teachin Referre Modula Master Master Master Master Master Master	r's stud The re the de with ed by I onal inf oad ng cycl ed to in e appea r's degr r's degr r's degr r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the num ot among applicants fro formation ee: summer semester LPO I (examination regulati ars in ree (1 major) Economath ree (1 major) Business I ree (1 major) Business I ree (1 major) Business I ree (1 major) Internation ree (1 major) Internation ree (1 major) Internation ree (1 major) China Busi	rmatik (Business Inforr allocated to students of mber of applications er om this group.	ammes) 016) 2016) 2016)	be given preferentia When places are allo	l considerati ocated in ac-	
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo Master Master Master Master Master Master Master	r's stud The re- ice with ed by I onal inf oad ng cycl ed to in e appe r's degr r's degr r's degr r's degr r's degr r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the num ot among applicants fro formation ee summer semester LPO I (examination regulati ars in ree (1 major) Economath ree (1 major) Business I ree (1 major) Business I ree (1 major) China Busi ree (1 major) Internation	rmatik (Business Inforr allocated to students of mber of applications en- om this group.	ammes) 016) 2016) 2016)	be given preferentia When places are allo f available places, p	l considerati ocated in ac-	



Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module	Module title Abbreviation						
Mobile	and U	biquitous Systems			12-M-MUS-161-m01		
Module coordinator				Module offered by			
holder	of the (Chair of Information Syst	tems Engineering	Faculty of Managem	nent and Economics		
ECTS	Meth	od of grading	Only after succ. con	pl. of module(s)			
5	nume	rical grade					
Duratio	on .	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
The module provides an overview of technologies and business applications of mobile & ubiquitous computing. Concepts and applications are illustrated using numerous examples from mobile telecommunications to the In- ternet of Things. In the accompanying exercise, corresponding case study texts are analysed and discussed.							
Intende	ed lear	ning outcomes					
- Under	rstand	the technological basics	of mobile & ubiquito	us computing.			
- Analy:	sing bu	isiness applications in p	processes, products/s	ervices and business	s models		
- Apply	the co	ncepts learned to real-li	fe problems in a busir	ess context			
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	man)			
Ü (2) +	V (2)						
a) writt b) oral approx Langua credita Allocat Additio Teachin Teachin	en exa en examir . 30 mi age of a ble for ion of p onal inf mad	ssessment: German and bonus places ormation e e: summer semester	nutes) or ach: approx. 15 to 20 n d/or English	ninutes; groups of 2:			
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)			
Module	e appea	ars in					
Master Master Master Master Master Master Master Master	's degr 's degr 's degr 's degr 's degr 's degr 's degr 's degr	ee (1 major) Economathe ee (1 major) Business In ee (1 major) Business M ee (1 major) China Busin ee (1 major) Internationa ee (1 major) Media Com ee (1 major) Media Com ee (1 major) Media Com	formation Systems (20 anagement (2015) less and Economics (2 al Economic Policy (20 munication (2016) Jage and Economy (20 munication (2018) nt (2018)	2016) 15) 016)	im rog da		
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 136 / 590	

Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) Media Communication (2019) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021)

Module title					Abbreviation		
Semina	ar: Sup	ply Chain Competition			12-M-SCC-161-m01		
Module	e coord	inator		Module offered by			
holder of the Chair of Logistics and Quantitative Metho				Faculty of Managen	nent and Economics		
ECTS Method of grading Only after succ			Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duration Module level Other prerequisites				i			
1 seme	ster	graduate					
Contents							
		r "Supply Chain Compe perations and supply cl		ipate in an online mu	ulti-round simulatior	1 and apply	
Intende	ed lear	ning outcomes					
i. selec ii. faceo	ted and d the p	ng this seminar studer d applied quantitative r ractical problems wher stand the challenges to	nodels for procuremen using real data to feed	d models,		anagement,	
		number of weekly contact hour			y.		
S (2)	S (type, f	fumber of weekly contact hour	, language — Il other than Ge	illidil)			
Method module is term pa Langua	aper (aper of a	sessment (type, scope, lang le for bonus) oprox. 15 to 20 pages) a ssessment: German an ffered: Once a year, wil	and presentation (appr d/or English			on on whether	
	-	· · · · ·					
as follo Quantit succes in man ment) c	Allocation of places 12 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Students who already have successfully completed courses offered by the Chair of Logistics and Quantitative Methods will be given preferential consideration. (2) Among applicants with the same number of successfully completed modules, places will be allocated according to the total number of ECTS credits achieved in mandatory courses of the focus Logistik und Supply Chain Management (Logistics and Supply Chain Manage- ment) or Value Chain Management or another specialisation the applicant has selected which includes courses offered by the Chair. (3) Among applicants with the same number of ECTS credits, places will be allocated by lot.						
Additio	nal inf	ormation					
 Worklo	ad						
150 h							
Teachi	ng cycl	e					
Teachir	ng cycle	e: each semester					
Referre	d to in	LPO I (examination regulati	ons for teaching-degree progra	ummes)			
Module	e appea	urs in					
Master Master Master Master Master	's degru 's degru 's degru 's degru 's degru	ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang ee (1 major) Manageme r Economathematics (2016)	Management (2015) ness and Economics (2 al Economic Policy (20 guage and Economy (20 ent (2018)	15)	ım reg da-	page 138 / 590	
Musici s Wi	iai i maju		-	(120 ECTS) Wirtschaftsmathe	-	page 130 / 590	

Master's degree (1 major) International Economic Policy (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Busines	ss Proc	esses Organisation, Bus	Process Industries	12-GLP-161-m01		
Module	coord	inator		Module offered by		
holder o Informa		Chair of Business Manage /stems	ement and Business	Faculty of Managem	nent and Economics	
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
ger be r en usec solutior	nanage I for a l ns. This	ed without using such ER ong time, but business p	P systems. In financi rocesses e. g. for log	al departments of co istical tasks have so	cesses in companies can no lon- ompanies, such systems have be- far not been supported by ERP at constraints and what depen-	
Intende	d learr	ning outcomes				
followir 1. Fund unde ted p 2. Unde ta str ness 3. Spec of sp sider 4. Appli ERP s busir	ng learn amenta rstand roblem rstand uctures proces ializati ecific in ing the cation system. ness pr	ning outcomes: al Knowledge of Business ing of the essential busin is in the organization and ing and Designing ERP System on and data flows within a sess within an ERP system on in Industry Requirement ndustries, such as the pro- specific characteristics of and Integration into ERP . They are capable of app occesses into ERP system	s Processes: Upon co ness processes within d design of logistical ystems: Students are n ERP system. They h n. ents: Participants hav ocess industry. They of these industries. Systems: Students a lying theoretical kno s to support busines:	mpleting the course, n companies. They has business processes capable of understan ave acquired practic re gained specialized understand how to course re able to map core has wledge practically ar s objectives.	es" module aims to achieve the , students will possess a solid ave learned how to identify selec- and develop solutions. anding and designing basic da- cal skills to effectively map busi- d knowledge of the requirements organize business processes con- business processes within an nd optimizing the integration of	
		umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + l						
		s essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
	ge of a	nation (approx. 60 minut ssessment: German and, bonus				
Allocati	ion of p	olaces				
by lot a number	20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.					
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachin	ig cycl	e				
Teachin	ig cycle	e: winter semester				

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Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) Information Systems (2022)

Module	e title				Abbreviation	
Strateg	gic Man	agement of Global Supp	ly Chains		12-M-SMGS-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of Logistics and Quantitative Method			antitative Methods	Faculty of Manager	nent and Economics	
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	isites		
1 semester graduate						
Conten	Its		•			
	les of b				ecome familiar with the basic nave learned working on multiple	
Intend	ed lear	ning outcomes				
(i) can results	apply t , and	ng this course students he basic methods and co d the effects of global va			practical settings and evaluate the	
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether	
	age of a	nation (approx. 60 minut ssessment: German and bonus				
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycle	e: no courses offered				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master Master Master	's degr 's degr 's degr	ee (1 major) Economathe ee (1 major) Business Inf ee (1 major) Business Ma ee (1 major) China Busin ee (1 major) Internationa	ormation Systems (2 anagement (2015) ess and Economics (2	2016)		
	-	ee (1 major) China Langu		-		

Module	e title				Abbreviation			
Global Value Management					12-M-GVM-161-m01			
		• ,						
Module			· -	Module offered by				
Dean o mics	f the Fa	iculty of Business Mana	gement and Econo-	Faculty of Managen	nent and Economics			
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)				
5	numerical grade							
Duratio	on	Module level	Other prerequisites	;				
1 seme	ster	graduate						
Conten	ts							
In this	course.	students will explore s	elected issues of proc	urement, production	and logistics manage	gement.		
		ning outcomes				Sementa		
		the necessary expertise	in the more service t	falabal value setue	vice in this service -	(intox) dia		
ciplina gement	ry and s t at lea	social competences are st partially independent tercultural) cooperation	taught, because these capabilities provide a	e from procurement, a not important succe	production and logi ess factor of a succe	stics mana- ssful (global		
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)				
V (2) +								
• •	• •	lternatively eLearning,	S, WS					
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether		
Langua	ige of a ment o	(approx. 15 pages) ssessment: German and ffered: In the semester i bonus	-	offered and in the su	ıbsequent semester			
Allocat	ion of _l	olaces						
Additio	nal inf	ormation						
Worklo	ad							
150 h								
Teachi	ng cvcl	e						
		e: no courses offered						
		LPOI (examination regulatio	no fortooching de					
Kelelle		LFUT (examination regulatio	ns for teaching-degree progra	ammes)				
 Module	e appea	urs in						
		ee (1 major) Economath	ematics (2016)					
	-	ee (1 major) Business M						
	-	ee (1 major) China Busir		2016)				
Master	's degr	ee (1 major) Internationa	al Economic Policy (20	915)				
	-	ee (1 major) China Lang	- ,	016)				
	-	ee (1 major) Manageme						
	-	ee (1 major) Internationa	•					
	-	ee (1 major) China Busir		•				
		ee (1 major) China Langı r Economathematics (2016)		D 19) • generated 19-Apr-2025 • exa	am reg da-	nage 1/2 / 500		
master S WI	iai i maju			(120 ECTS) Wirtschaftsmathe		page 143 / 590		

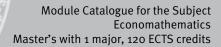
Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022)



Information Management

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation		
E-Busir	ness St	rategies			12-M-IBS-161-m01		
Module coordinator				Module offered by			
holder	ofthe	Chair of Information Sys	stems Engineering	Faculty of Managen	nent and Economics		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites	;			
1 seme	ster	graduate					
Conten	Its						
industr applied	ries and d to dig	rovides an overview of I value networks. To thi ital innovations and illu nown digital companies	is end, concepts and fr ustrated with numerou	ameworks from strat s examples. In the ac	egic technology mar ccompanying exercis	nagement are	
Intende	ed lear	ning outcomes					
logies. - Apply applica	- Understand theoretical concepts of strategy development and implementation in the context of digital techno-						
		concepts to real busine					
	-	number of weekly contact hour	s, language — if other than Ge	rman)			
V (2) +			_				
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
b) oral approx	examir . 30 mi age of a	ssessment: German ar	each: approx. 15 to 20 r	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:	
Allocat	ion of _l	olaces					
follows conside cated i ces wil	40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allo- cated in accordance with (1) and (2) and the number of applications exceeds the number of available places, pla- ces will be allocated by lot among applicants from this group.						
Additio	onal inf	ormation					
			_				
Worklo	ad						
150 h			_				
Teachi	ng cycl	e					
		e: winter semester					
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)			
Module appears in							
		ee (1 major) Economatł ee (1 major) Business I		016)			
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 147 / 590	

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation		
Informa	nformation Processing within Organizations 12-IV-161-m01						
Module coordinator Module offered by							
Dean of mics	f the Fa	culty of Business Manag	gement and Econo-	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites	;			
1 semes	ster	graduate					
Conten	ts						
field. It	covers	ays the foundation for ur different application are existing structures.					
 C D B Ir C D P Intende 	hange ata sto usines ternal loud, o ata ano rocess ed learn	ion into information syst and project managemen orage, processing, and st s logic, algorithms, optir vs. external integration, operational models, platf d IT security /task mining, hyperautor	t, requirements engin ructures nization, system arch technical interfaces forms, distributed led mation, business inte	nitecture, microservic ger technology elligence, machine le	arning		
 Know and s Analy proce Deve tellig Evalu 	vledge system vsis of l esses, a lopmer ence to ration o	on Processing within Org of Information Systems: architecture, can integra Business Processes: The and optimize system lan nt of Business Solutions o develop integrative bus of Technology Trends: Th as technology trends, an	Students understand ate new technologies by recognize and anal dscapes using ERP sy contents use their k siness solutions and ey have a deep unde	I and apply core cond into systems, and de yze business informa ystems and project m nowledge of modern solve operational cha rstanding of IT securi	eepts such as data p evelop practical app ation systems, mode nanagement method technologies and b allenges. ty and modern tech	processing lications. el business ls. pusiness in-	
Courses	S (type, n	umber of weekly contact hours,	language — if other than Ge	rman)			
V (2) + (Ü (2)						
		essment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
	ge of a	nation (approx. 60 minut ssessment: German and bonus					
Allocati	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachir	ng cycl	e					
Teachir	ng cycle	e: winter semester					
Master's wi	th 1 major	Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 149 / 590	

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)



Compulsory Core Electives

(10 ECTS credits)

Master's with 1 major Economathematics (2016)

Module title				Abbreviation		
Adaption and Continuous System Engineering12-ACSE-161-m01						
Module c	oordinator		Module offered by			
Dean of th mics	he Faculty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics		
ECTS M	Aethod of grading	Only after succ. con	npl. of module(s)			
5 n	umerical grade					
Duration	Module level	Other prerequisites				
1 semeste	er graduate					
Contents						
(Continue dule discu ple of the amples. B ticipants gain pract Content: • Fun • Clou • Arcl • Plat • Bas						
	nds-on SDK: independently de learning outcomes	esigning and develop	ing a demo app			
special re of busine ledge will in cloud c SAP Busir	equirements of a company. Th ess software libraries. Based o l be deepened by using case s computing for businesses, ER	ey also develop a fur n selected examples studies. Business Ap P systems architectur ndependent planning	ndamental understar from the SAP Busine ps: The course impar re and software deve g, implementation ar	usiness software solution to the ading of the dynamic adaptation ess Suite that the acquired know- ts knowledge and delivers skills lopment at the example of the ad documentation of a business atics.		
Courses (t	type, number of weekly contact hours, l	anguage — if other than Gei	rman)			
V (2) + Ü ((2)					
	of assessment (type, scope, langua reditable for bonus)	ge — if other than German,	examination offered — if no	t every semester, information on whether		
b) term pa c) oral exa approx. 3 Language	a) written examination (approx. 60 minutes) or b) term paper (approx. 20 pages) or c) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English creditable for bonus					
Allocation of places						
by lot amo number o	20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available.					

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Wirtschaftsmathematik - 2016

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) Information Systems (2022)

Module title					Abbreviation	
Analytical Information Systems					12-Bl-161-m01	
Module coordinator				Module offered by		
Dean of the Faculty of Business Management and Econo- Faculty of Management and Econo-						
mics		actually of Business man	agement and Leono	rucally of manager		
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster	graduate				
Conten	ts	• •				
cus is o	on indi	ovides an overview of tl vidual quantitative met for participation in this	hods of data analysis.			
Intend	ed lear	ning outcomes				
(i) Data	a Wareł	rovides students with k nousing & OLAP	-			
		al application areas and				
	_	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, lang ble for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
	age of a	nation (approx. 60 min Issessment: German an bonus				
Allocat	ion of	places				
Master on. (2) cordan	l the nu 's stud The rei ce with	umber of applications en ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	matik (Business Inforr Illocated to students o nber of applications e:	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	l considerati- ocated in ac-
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: summer semester				
		LPO I (examination regulation	ons for teaching-degree progr	ammes)		
Module	anne	ars in				
		ree (1 major) Economath	ematics (2016)			
Master Master Master	's degr 's degr 's degr	ee (1 major) Economia ee (1 major) Business N ee (1 major) China Busi ee (1 major) Internation	nformation Systems (2 Nanagement (2015) ness and Economics (:	2016)		
		ee (1 major) China Lang				
	-	ee (1 major) Manageme				
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • ex	-	page 154 / 590
			ta record master	(120 ECTS) Wirtschaftsmathe	matik - 2010	



Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module title				Abbreviation		
Busines	Business Service Platforms 1 12-BSA-161-m01					
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
nologie product 1. be se 2. be of 3. addre 4. allow 5. be su These n Intende Be awa ons of t sess the the nec Courses	A next generation of enterprise systems called business service platforms is emerging using new disruptive tech- nologies such as cloud computing, big data and mobility. These business service platforms apply the concept of product platforms to software. They will 1. be services based 2. be offered as a service in the cloud 3. address new classes of users and types of business especially in the service business 4. allow for a high degree of business adaptability and extensibility. 5. be supplemented by a broad offer of partner add-ons supporting accelerated innovation. These new business service platforms will play a key role in the digital transformation of the software industry. Intended learning outcomes Be aware of the big business productivity progress enabled by BIS in the last 50 years. Understand the limitati- ons of these systems in spite of the digital transformation of the software industry ahead. Be able to critically as- sess the business potential of new IC technologies. Understand the business demand for change. Understand the necessary organizational learning needed to leverage new technology for business change management. Courses (type, number of weekly contact hours, language – if other than German)					
V (2)						
		essment (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
	ge of a	nation (approx. 60 minute ssessment: German and/ bonus				
Allocati	ion of p	olaces				
Should Master' on. (2) cordane	40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential considerati- on. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in ac- cordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group.					
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	9				
Teachin	ng cycle	e: no courses offered				
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)		
	-					

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Business Software 1: IS-based Enterprise Management					12-GPU-161-m01	
Module	e coord	inator		Module offered by	<u>.</u>	
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
stems a busines which f Section The firs pany. S	The module offers a comprehensive insight into the world of Enterprise Resource Planning (ERP) systems. ERP sy- stems are central building blocks in modern business management and play a crucial role in the integration of business processes, data management and decision-making. This module is divided into three sections, each of which focuses on practical applications and examples in addition to theory. Section 1: ERP selection process with application examples of two ERP systems The first part of the module is dedicated to the complex process of selecting a suitable ERP system for a com- pany. Students are familiarized with proven methods and tools that are used in the evaluation of ERP systems. Using case studies, students compare two different ERP systems and apply the selection process in a real-life en-					
In this p of indiv ny in th	part, st ⁄idual E iis field	RP applications. The foci	vith low-code and no- us is on dealing with cs of these platforms	code platforms that a specific software s and create their ow	enable the efficient development solution from a leading compa- n applications in order to experi-	
In the fi system	inal pa SAP S	4HANA. Students are en	ics of customizing EF abled to adapt SAP S	RP software. The focu /4HANA to the spec	us is on the world's leading ERP ific requirements of a company. niques in real-life scenarios.	
					offer the opportunity to access ans of extensive case studies.	
Intende	ed lear	ning outcomes				
the foll 1. ERP S stem 2. Integ ons. 3. Selec stem 4. Imple	 The "Business Software 1: Management and Implementation of Information Systems" module aims to achieve the following learning outcomes: 1. ERP Systems - Overview and Differentiation: Students gain a comprehensive understanding of various ERP systems, their architectures, and philosophies. 2. Integration of Business Processes: Participants learn how ERP systems map and optimize business operations. 3. Selection and Customizing of ERP Systems: Students develop skills to evaluate, select, and adapt ERP systems to meet business needs. 4. Implementation of Business Processes: Students gain practical experience in independently implementing business processes in ERP and low-code/no-code platforms, and learn practical ERP customizing. 					
		umber of weekly contact hours, l	· · · · · ·		<u> </u>	
V (2) +		, ,		,		
Methoo module is	Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
a) written examination (approx. 60 minutes) or						

Master's with 1 major Economathematics (2016)

b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or
c) term paper (approx. 15 to 20 pages)
Language of assessment: German and/or English

Assessment offered: Once a year, winter semester

creditable for bonus

Allocation of places

UNIVERSITÄT

WÜRZBURG

20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

WUIKIUa

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) Dusiness management (2015) Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation			
Supply	Supply Network Information Management 12-M-SCIM-161-m01							
Module	coord	inator		Module offered by				
Dean of the Faculty of Business Management and Econo- mics								
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)				
5	nume	rical grade						
Duratio	n	Module level	Other prerequisites					
1 seme	ster	graduate						
Conten	ts							
sible ar It has b ply cha works (of all su cular, h look at used to system: Intende Studen ducts a spectiv gards.	Since mass production on the assembly line with continuous deliveries (supply chain) revolutionised the procurement process in the 19th century, the usage of information processing has made more flexible operations possible and the demand of customers for individualised products has made more flexible operations necessary. It has become possible to adopt a much more differentiated and sophisticated approach to the electronic supply chain and the planning of the same so that the challenge we are facing today is designing procurement networks (supply networks) that also take into account the delivery sequence for all deterministically procured parts of all suppliers. This module will discuss these conceptual fundamentals of supply management and, in particular, how the managing of procurement activities can be supported by information processing. The module will look at how well ERP systems can support these activities, how new hardware and software technologies can be used to accelerate the currently time-consuming procurement processes and how formerly isolated information systems of individual firms can be integrated into a network of supply management. Intended learning outcomes Students will earn an overall understanding of the complex structure of supply relationships for individual products and their dependencies for a variety of products. Student will also be trained to recognize (from the perspective of the parties involved into the production process) opportunities and to make decisions in these regards. These relations will be of crucial importance for all production-oriented managers because only a solid un-							
		f these relationships will number of weekly contact hours,		-	<u>.</u>			
V (2) +	Ü (2)							
		essment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether		
	ge of a ble for							
Additio	nal info	ormation						
Worklo	ad							
150 h								
Teachir	ng cycl	e						
Teachir	ng cycle	e: no courses offered						
		LPO I (examination regulation	is for teaching-degree progra	mmes)				
		-	· · · · ·					
Module	Module appears in							
Master'	s degre	ee (1 major) Economathe ee (1 major) Business Inf		016)				
Master's wi	th 1 major	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 160 / 590		

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Work and Information 12-ITA-161-m01 Module coordinator Module offered by Dean of the Faculty of Business Management and Economics mics Faculty of Management and Economics ECT Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents This module discusses relevant principles, concepts and applications of business information processing and its impact on organisational and process structures in today's business world. Internet levent concepts and interdepending in this module. For decisions in regards to human resources planning, interded learning outcome The expentise gained from other modules related to business management issues can be interpreted and classified in a certain way by participating in this module. For decisions in regards to human resources planning, inder eventice, which come with taking information processing into account as the so called "fourth" factor of production. Courses (type, number of weekly contact hours, language – if other than Geman. V (2) Method of assessment (type, scope, language – if other than Geman, examination offered – if not every senset, information whether module is creditate for banu.) a) written examination (approx. Go minutes) or b) oral examination (approx. So minutes) or <t< th=""><th colspan="5">Module title Abbreviation</th><th>Abbreviation</th></t<>	Module title Abbreviation					Abbreviation
Dean of the Faculty of Business Management and Economics Faculty of Management and Economics mics Faculty of Management and Economics ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contemts This module discusses relevant principles, concepts and applications of business information processing and its impact on organisational and process structures in today's business world. Intended learning outcomes The expertise gained from other modules related to business management issues can be interpreted and classified in a certain way by participating in this module. For decisions in regards to human resources planning, investment, and a company's strategy, the students will get to know all the relevant concepts and interdependencies, which come with taking information processing into account as the so called "fourth" factor of production. Courses type, number of weekly contact hours, language – if other than German. Contents V (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for boms0 a) written examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 20 minutes; Language of assessment: German and/or English Alditional	Work a	Work and Information 12-ITA-161-m01				
mics	Module	coord	inator		Module offered by	
5 numerical grade		f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics
Duration Module level Other prerequisites 1 semester graduate Contents This module discusses relevant principles, concepts and applications of business information processing and its impact on organisational and process structures in today's business world. Intended learning outcomes The expertise gained from other modules related to business management issues can be interpreted and classified in a certain way by participating in this module. For decisions in regards to human resources planning, investment, and a company's strategy, the students will get to know all the relevant concepts and interdependencies, which come with taking information processing into account as the so called "fourth" factor of production. Curses (type, number of weekly contact hours, language – if other than German) V (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English Alditional information Additional information Morkload	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
Duration Module level Other prerequisites 1 semester graduate Contents This module discusses relevant principles, concepts and applications of business information processing and its impact on organisational and process structures in today's business world. Intended learning outcomes The expertise gained from other modules related to business management issues can be interpreted and classified in a certain way by participating in this module. For decisions in regards to human resources planning, investment, and a company's strategy, the students will get to know all the relevant concepts and interdependencies, which come with taking information processing into account as the so called "fourth" factor of production. Courses (type, number of weekly contact hours, language – if other than German) V (2) Method of assessment (type, scope, language – if other than German) V (2) Method of assessment (type, scope, language – if other than German) V (2) Aution (approx. 6 on minutes) or b) oral examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English Allocation of places Additional information -	5	nume	rical grade		-	
1 semester graduate Contents Contents This module discusses relevant principles, concepts and applications of business information processing and its impact on organisational and process structures in today's business world. Intended learning outcomes The expertise gained from other modules related to business management issues can be interpreted and classified in a certain way by participating in this module. For decisions in regards to human resources planning, investment, and a company's strategy, the students will get to know all the relevant concepts and interdependencies, which come with taking information processing into account as the so called "fourth" factor of production. Courses (type, number of weekly contact hours, language – if other than German) V (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) oral examination (approx. 60 minutes) or b) oral examination (aper candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English Allocation of places Additional information Morkload <tr< td=""><td></td><td>1</td><td></td><td>Other prerequisites</td><td></td><td></td></tr<>		1		Other prerequisites		
Contents This module discusses relevant principles, concepts and applications of business information processing and its impact on organisational and process structures in today's business world. Intendel learning outcomes The expertise gained from other modules related to business management issues can be interpreted and classified in a certain way by participating in this module. For decisions in regards to human resources planning, investment, and a company's strategy, the students will get to know all the relevant concepts and interdependencies, which come with taking information processing into account as the so called "fourth" factor of production. Courses (type, number of weekly contact hours, language – if other than German) V (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) oral examination funce candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English Allocation of places	1 semes	ster	graduate			
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Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Information Systems (2019)		-				
Master's degree (1 major) Information Systems (2019)		-			-	
		-			16)	
Master's degree (1 major) Information Systems (2022)		-				
	Master'	s degre	ee (1 major) Information S	systems (2022)		

Module title					Abbreviation		
Decision Support Systems 12-M-DSS-161-m01							
Module coordinator			Module offered by				
holder	of the (Chair of Business Analy	tics	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites	i			
1 seme	ster	graduate					
Conten	ts						
	quired i	scusses advanced appr nsights are used to de					
Intende	ed lear	ning outcomes					
• U • Is • S s							
Course	S (type, r	umber of weekly contact hour	s, language — if other than Ge	rman)			
V (2) +	Ü (2)						
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
b) oral approx	examir . 30 mi ge of a	ssessment: German an	ach: approx. 15 to 20 n	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:	
Allocat	ion of p	olaces					
Master on. (2) cordan	the nu 's stud The rer ce with	mber of applications e ents of Wirtschaftsinfor naining places will be a (1) and (2) and the nur ot among applicants fro	matik (Business Inforn Illocated to students o nber of applications e>	nation Systems) will f other subjects. (3) \	be given preferentia Nhen places are allo	l considerati- ocated in ac-	
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi							
Teaching cycle: winter semester							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module							
Master	's degr	ee (1 major) Economath ee (1 major) Business II ee (1 major) Business N	nformation Systems (20	016)			
Master's wi	ith 1 majo	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 163 / 590	

Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module title	Abbreviation			
Information systems research 12-M-ISR-161-m01				
Module coordinator	Module offered by			
holder of the Chair of Information Syst	tems Engineering	Faculty of Managem	ent and Economics	
ECTS Method of grading	Only after succ. com	pl. of module(s)		
5 numerical grade				
Duration Module level	Other prerequisites			
1 semester graduate				
Contents				
The course provides an overview of th international research in business info		Indations, theories, I	research topics and	methods of
Intended learning outcomes				
The module provides students with kr (i) Exploration of classical themes of V (ii) Getting to know the relevant parad (iii) Recognition of the interfaces to ot (iv) Gain experience in finding and eva	VI / IS research; igms, theories and me her areas of business aluation of scientific li	administration and r terature.	nanagement practic	:e;
Courses (type, number of weekly contact hours,	language — if other than Ger	man)		
V (2) + Ü (2)	_			
Method of assessment (type, scope, langumodule is creditable for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	ion on whether
a) written examination (approx. 60 mi b) oral examination (one candidate ea approx. 30 minutes) Language of assessment: German and creditable for bonus	ach: approx. 15 to 20 n	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:
Allocation of places				
40 places. Should the number of applications ex Master's students of Wirtschaftsinforr on. (2) The remaining places will be al cordance with (1) and (2) and the num allocated by lot among applicants from	natik (Business Inforn located to students of ber of applications ex	nation Systems) will f other subjects. (3) V	be given preferentia Vhen places are allo	l considerati- ocated in ac-
Additional information				
Workload				
150 h	_			
Teaching cycle				
Teaching cycle: each semester				
Referred to in LPO I (examination regulation	ns for teaching-degree progra	mmes)		
Module appears in				
Master's degree (1 major) Economatho Master's degree (1 major) Business In Master's degree (1 major) Business M Master's degree (1 major) China Busin Master's degree (1 major) Internationa	formation Systems (20 anagement (2015) less and Economics (2	2016)		
Master's with 1 major Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 165 / 590



Master's degree (1 major) China Language and Economy (2016)

Modul	e title				Abbreviation
Work C	Order P	lanning for Automated	Manufacturing		12-M-AGAF-161-m01
Module	e coord	linator		Module offered by	·
Dean o mics	f the Fa	aculty of Business Man	agement and Econo-	Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)	
5	nume	rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conten		0			
in term ply net stomer	s of bu work) a orders	siness application area and connection of legal	as, their temporal overl tasks (eGovernment). rre technical view of the	ap (data warehouse) However, linking the scheduling of prod	nd developed as an ERP system), their spatial relationship (sup- commercial view of incoming cu uction orders and the resulting
Intend	ed lear	ning outcomes			
Busine	ss Inte		s a conceptual as well a	as practical insight in	l as the orientation of the Chair of nto the challenges of this in the
Course	S (type, 1	number of weekly contact hour	s, language — if other than Ge	rman)	
V (2) +	Ü (2)				
		sessment (type, scope, lang ble for bonus)	guage — if other than German,	examination offered — if no	ot every semester, information on whether
Langua	ige of a	nation (approx. 60 min ssessment: German ar			
Allocat	ion of	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachi	ng cycl	e: no courses offered			
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Economatl ee (1 major) Business I		016)	
	-	ee (1 major) Business N	•	<i>,</i>	
	-	ee (1 major) China Busi		2016)	
	-	ee (1 major) Internatior	-	-	
	-	ee (1 major) China Lang	,	016)	
Master	's degr	ee (1 major) Informatio	n Systems (2019)		

Module title Abbreviation							
Management and Leadership in Organizations					12-MFO-161-m01		
Module coordinator Module offered by							
Dean of the Faculty of Business Management and Ec mics			anagement and Econo-	Faculty of Management and Economics			
ECTS	ECTS Method of grading Only after succ. co		Only after succ. co	mpl. of module(s)			
5	nume	rical grade					
Duration Module level		Other prerequisites	Other prerequisites				
1 semester graduate							
Conte	Contents						

Part I:

The complexity of the modern work environment and the constantly changing organisational structures of companies lead to a demand for young mangers with a high diversity of expertise that are able to play their part in managing the organisational world. The lecture will provide students with an insight into the characteristics, tasks and instruments as well as the challenges of management in organisations and situations that are becoming ever more complex.

Outline of syllabus:

- Introduction -- Power in the daily management routine
- Fundamentals of management in complex organisations
- Tasks and instruments of management
- Leadership in an intercultural context
- Assurance of employability
- Conclusion -- Management of supervisors and colleagues

Part II: Today's world of work is characterised by continuous change in a global context. Mergers, integrations and acquisitions - these are key terms in this context.

The majority of change processes does not have the desired effect or even fails. This is not least due to the fact that not enough attention is paid to the complexity of these processes and to employees.

The support and integration of successful change processes is a central responsibility of managers as well as a complex and central task that requires sound preparation.

Outline of syllabus:

- Introduction typical change scenarios
- Psychological basics and concepts
- Approaches and control in change projects
- Measures and instruments of change management
- The role of management
- Conclusion example of application acquisitions and cases

Intended learning outcomes

Part I: Course objectives:

- Provide a widespread insight into the current status of theory and practice regarding management in complex organizations
- Introduction of essential tasks and instruments of managers and their apply to authentic cases.
- To illustrate and reflect the tensions of management in complex situations and international context Part II: Course objectives:

Provide a widespread insight into the current status of theory and practice regarding changes

- Introduction, suitability of daily use and critical reflection of essential concepts, models and methods
- Foster the understanding for the necessity, complexity of changes as well as their constraints and barriers.

Courses (type, number of weekly contact hours, language – if other than German)

V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether
module is creditable for bonus)
written examination (approx. 60 minutes)
Language of assessment: German and/or English
creditable for bonus
Allocation of places
Additional information
Workload
150 h
Teaching cycle
Teaching cycle: no courses offered
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)

Business Processes Organisation, Business Software and Process Industries 12-GLP-161-m01 Module coordinator Module offered by Faculty of Management and Business Faculty of Management and Economics Information Systems Faculty of Management and Economics Soft and the organization of grading Only after succ. compt. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies can no longer be managed without using such ERP systems. In financial departments of companies, such systems have been denois time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within notopanies. They have learned how to identify selected problems in the organization and design of logistical task have acquired practical shull be effectively map business processes within an ERP system. 2. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of speci	Module title Abbreviation							
holder of the Chair of Business Management and Business Faculty of Management and Economics Information Systems Faculty of Management and Economics ECTS Method of grading Only after succ. compl. of module(s) Duration Module level Other prerequisites 1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies, and systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes Intended learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding and designing ERP Systems: Students are capable of understanding and designing basic data tructures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within an ERP system. Students are capable of understanding and designing basic data tructures and data flows within an ERP system. They understand have to business processes considering the order business processes within an ERP system. 2. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements or specific industries, such as the process industry. They understand have to granize business processes considering the second these industries. 4. Application and Integration i	Busines	Business Processes Organisation, Business Software and Process Industries 12-GLP-161-mo1						
Information Systems ECTS Method of grading Only after succ. compl. of module(s) Touration Module level Other prerequisites I semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies can no lon- ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP Solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intende learning outcomes Inter "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: I. Fundamental Knowledge of Business Processes Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. J. Understanding and Designing ERP System: Students are capable of understanding and designing ERP Systems: Students are capable of understanding and designing they System. A. Optication and Integration into ERP Systems: Students have gained specialized knowledge of the requirements of specific industrive, scup as the process industries. 4. Application and Integration into ERP Systems to support business objectives. Courses (pre, number of weekly contact hours, language – if other than German) V(2) + 0(2) Method of assessment (pre, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus Alternation Courses of the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places Addition	Module	Module coordinator Module offered by						
5 numerical grade								
Duration Module level Other prerequisites 1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies can no lon. ger be managed without using such ERP systems. In financial departments of companies, such systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic da- ta structures and data flows within an ERP system. They have acquired practical skills to effectively map busi- ness processes within an ERP system. Studients are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) <t< td=""><td>ECTS</td><td>Metho</td><td>od of grading</td><th>Only after succ. con</th><th>npl. of module(s)</th><td></td></t<>	ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies, such systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selected problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP System: Students are capable of understanding and designing basic data tstructures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within an ERP system. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes considering the specific characteristics of these industries. 4. Application and Integration into ERP Systems is Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP systems to suppo	5	nume	rical grade					
Contents ERP systems have become key elements of successful companies. Business processes in companies can no longer be managed without using such ERP systems. In financial departments of companies, such systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes Intended learning outcomes: The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: I. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements or specific industries, such as the process industry. They understand how to organize business processes considering the specific characteristics of these industries. 4. Application and Integration into ERP Systems to support business objectives. Courses (type, number of explying theoretical knowledge practically a	Duratio	n	Module level	Other prerequisites				
ERP systems have become key elements of successful companies. Business processes in companies can no lon- ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far no been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 2. Understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes con- sidering the specific characteristics of these industries. 4. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ú (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) Allocation of places 20 places. (1) Should the number of appli	1 semes	ster	graduate					
ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic da- ta structures and data flows within an ERP system. They have acquired practical skills to effectively map busi- ness processes within an ERP system. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes con- sidering the specific characteristics of these industries. 4. Application and Integration into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ū (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places, (1) Should the number of applications exceed the number of available places, places will be allocated by lot as mogal lapplicants irrespective of their subjects. (2) Places o	Conten	ts						
The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selected problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic data structures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific characteristics of these industries. 4. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + U (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus written examination (approx. 60 minutes) Language of assessment: German and/or English creditable places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available. Method Information	ger be r en usec solutior	nanage l for a l ns. This	ed without using such ER ong time, but business p module explains how th	P systems. In financi rocesses e. g. for log	al departments of co istical tasks have so	mpanies, such systems have be- far not been supported by ERP		
The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selected problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic data structures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific characteristics of these industries. 4. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ú (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.	Intende	d learr	ning outcomes					
V (2) + Ü (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle	followir 1. Fund unde ted p 2. Unde ta str ness 3. Spec of sp sider 4. Appli ERP s busir	 following learning outcomes: Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic da- ta structures and data flows within an ERP system. They have acquired practical skills to effectively map busi- ness processes within an ERP system. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes con- sidering the specific characteristics of these industries. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of 						
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module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle			•					
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20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle	Langua	ge of a	ssessment: German and					
by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle	Allocati	ion of p	olaces					
 Workload 150 h Teaching cycle	by lot a number	by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo-						
150 h Teaching cycle	Additio	nal info	ormation					
150 h Teaching cycle								
Teaching cycle	Worklo	ad						
	150 h							
	Teachir	ig cycl	9					
Teaching cycle: winter semester	Teachir	ıg cycle	e: winter semester					

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) Information Systems (2022)



Logistics & Supply Chain Management

(20 ECTS credits)





Compulsory (15 ECTS credits)

Module	Module title Abbreviation					
Advanc	Advanced Operations & Logistics Management 12-M-AOLM-161-mo1					
Module coordinator Module offered by						
holder	ofthe	Chair of Logistics and Qu	antitative Methods	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade		· · · · · · · · · · · · · · · · · · ·		
Duratio	•	Module level	Other prerequisites			
1 seme		graduate				
Conten		Sidduite	l			
plannir	ng of in				s with advanced methods for the application of these with the help	
Intende	ed lear	ning outcomes				
(ii) dev (iii) eva (iv) app	elop ar aluate t oly con	d evaluate integrated pro nd apply appropriate me he consequences of unc cepts and methods to pl	thods to plan complex ertainties in processe an uncertainties proce	x production and log s, and esses.	istics systems;	
		number of weekly contact hours,	language — if other than Ger	man)		
V (2) +	Ü (2)					
		Sessment (type, scope, langu le for bonus)	age — if other than German, o	examination offered — if no	ot every semester, information on whether	
b) term	paper age of a	mination (approx. 60 mi (approx. 15 to 20 pages) ssessment: German and bonus)			
Allocat	ion of	places				
			-			
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: summer semester				
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)		
Module	e appea	ars in				
		ee (1 major) Economathe	ematics (2016)			
	-	ee (1 major) Business In		016)		
	-					
Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016)						
	Master's degree (1 major) International Economic Policy (2015)					
Master	-	ee (1 major) Internationa ee (1 major) China Langu	ll Economic Policy (20	15)		

Module title Abbreviation						
Global Logistics & Supply Chain Management 12-M-GLSC-161-m01						
Module	Module coordinator Module offered by					
holder	ofthe	Chair of Logistics and Qu	antitative Methods	Faculty of Managen	nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	1	rical grade		, ,,		
<u> </u>		Module level	Other prerequisites			
1 seme		graduate				
Conten		Sidduite	l			
	ng of gl				with advanced methods for the ese with the help of multiple cas	
Intend	ed lear	ning outcomes				
(ii) dev	elop ar aluate t	d evaluate global produc nd apply appropriate met he consequences of unco	hods to plan product		s and methods to plan uncertai	
Course	S (type, 1	number of weekly contact hours, I	anguage — if other than Ger	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	t every semester, information on whether	
b) term	paper ge of a	mination (approx. 60 mir (approx. 15 to 20 pages) assessment: German and bonus				
Allocat	ion of	places				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
		e: winter semester				
	<u> </u>	LPOI (examination regulation	s for teaching-degree progra	ummes)		
Module	appe	ars in				
		ee (1 major) Economathe	matics (2016)			
	0	ee (1 major) Business Inf	. ,	016)		
	-	ee (1 major) Business Ma	, ,	,		
	-					
Master	Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015)					
	-					

Module title Abbreviation							
Managerial Analytics & Decision Making 12-M-MADM-161-mo1							
Module	Module coordinator Module offered by						
holder	of the	Chair of Logistics and Qu	antitative Methods	Faculty of Managen	nent and Economics		
ECTS	1	od of grading	Only after succ. con	npl. of module(s)			
5	1	rical grade					
<u>J</u> Duratio		Module level	Other prerequisites				
1 seme		graduate					
Conten		gidudate	1				
a diver	se set o				ethods to structure and solve dern methods with the help of		
Intende	ed lear	ning outcomes					
(ii) app sion m (iii) imp	ly impo aking; plemen	t advanced analytical me	pirical frameworks to ethods to support dec	cision making under	that evaluate good and bad dec risk.		
Course	S (type, 1	number of weekly contact hours,	language — if other than Ger	rman)			
V (2) +	Ü (2)						
		sessment (type, scope, langua ble for bonus)	age — if other than German,	examination offered — if no	t every semester, information on whether		
b) term	paper age of a	mination (approx. 60 min (approx. 15 to 20 pages) Issessment: German and bonus					
Allocat	ion of	places					
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Teachi	ng cycl	e: winter semester					
		LPO I (examination regulation	is for teaching-degree progra	ammes)			
Module	e appea	ars in					
		ee (1 major) Economathe	ematics (2016)				
	-	ee (1 major) Business Inf		016)			
Master	's degr	ee (1 major) Business Ma	anagement (2015)				
	-	ee (1 major) China Busin					
Mactor	Master's degree (1 major) International Economic Policy (2015)						
	-	ee (1 major) China Langu		-			



Compulsory Core Electives

(5 ECTS credits)

Module title					Abbreviation			
Semina	ar: Sup	ply Chain Competition			12-M-SCC-161-m01			
Module coordinator				Module offered by				
holder	of the (Chair of Logistics and Q	uantitative Methods	Aethods Faculty of Management and Economics				
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)				
5	nume	rical grade						
Duratio	on	Module level	Other prerequisites	i				
1 seme	ster	graduate						
Conten	ts							
		r "Supply Chain Compe perations and supply cl		ipate in an online mu	ulti-round simulatior	1 and apply		
Intende	ed lear	ning outcomes						
i. selec ii. faceo	ted and d the p	ng this seminar studer d applied quantitative r ractical problems wher stand the challenges to	nodels for procuremen using real data to feed	d models,		anagement,		
		number of weekly contact hour			y.			
S (2)	J (type, i			iiiiaii)				
Method module is term pa Langua	Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) term paper (approx. 15 to 20 pages) and presentation (approx. 10 minutes), weighted 2:1 Language of assessment: German and/or English Assessment offered: Once a year, winter semester							
	-	· · · · ·						
as follo Quantit succes in man ment) c	Allocation of places 12 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Students who already have successfully completed courses offered by the Chair of Logistics and Quantitative Methods will be given preferential consideration. (2) Among applicants with the same number of successfully completed modules, places will be allocated according to the total number of ECTS credits achieved in mandatory courses of the focus Logistik und Supply Chain Management (Logistics and Supply Chain Manage- ment) or Value Chain Management or another specialisation the applicant has selected which includes courses offered by the Chair. (3) Among applicants with the same number of ECTS credits, places will be allocated by lot.							
Additio	nal inf	ormation						
 Worklo	ad							
150 h								
Teachi	ng cycl	e						
		e: each semester						
Referred to in LPO I (examination regulations for teaching-degree programmes)								
Module	e appea	urs in						
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's with 1 major Economathematics (2016) Master's with 1 major Economathematics (2016)								
			-	(120 ECTS) Wirtschaftsmathe	-			

Master's degree (1 major) International Economic Policy (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Modul	Module title Abbreviation						
Semina	Seminar: Special Topics in Supply Chain Management 12-M-TSC-161-m01						
Modul	Module coordinator Module offered by						
Dean o mics	of the Fa	culty of Business Manag	ement and Econo-	Faculty of Manager	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	ster	graduate					
Conter	Its	5	1				
• 0 • a • 0	ourses dditior ourses	erves the purpose of trar taken at other German o aal courses offered on a s offered by new Chairs th the respective Chairs wi	r non-German univer short-term basis at are yet to be inclu	sities ded in the FSB (subj [,]			
Intend	ed lear	ning outcomes					
		accrediting multiple kind	s of modules, a desc	ription of acquired s	kills cannot be given.		
		umber of weekly contact hours, l	· · · · ·	· ·	0		
S (2)		-					
	d of ass	essment (type, scope, langua	ge — if other than German.	examination offered — if no	ot every semester, information on whether		
		le for bonus)					
Langua	age of a	oprox. 15 to 20 pages) an ssessment: German and, ffered: Once a year, sum	/or English	ox. 10 minutes), wei	ghted 2:1		
	ion of p		-				
as follo Quanti succes in man ment) offereo	ows: (1) tative N sfully c datory or Value I by the	Students who already ha Aethods will be given pre ompleted modules, place courses of the focus Logi chain Management or a Chair. (3) Among applica	ave successfully com ferential considerations es will be allocated a stik und Supply Chai another specialisatio	pleted courses offer on. (2) Among applic ccording to the total n Management (Log n the applicant has s	laces, places will be allocated ed by the Chair of Logistics and cants with the same number of number of ECTS credits achieved istics and Supply Chain Manage- selected which includes courses cs, places will be allocated by lot.		
Additio	onal inf	ormation	-				
Worklo	ad						
150 h							
Teaching cycle							
Teaching cycle: no courses offered							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Modul	e appea	in .					
Master	's degr	ee (1 major) Economathe	matics (2016)				
	-	ee (1 major) Business Ma					
	-	ee (1 major) China Busine					
	Master's degree (1 major) International Economic Policy (2015)						
Master	's degr	ee (1 major) China Langu	age and Economy (20	016)			

Module	Module title Abbreviation					
Industr	Industrial Management 1 12-M-SBM-161-m01					
Module	coord	inator		Module offered by		
holder Manage		Chair of Business Mana	gement and Industrial	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	5 numerical grade					
Duratio	Duration Module level Other prerequisites					
1 seme	ster	graduate				
Conten	ts					
(purcha	asing, r	dresses central issues on naterials management, leveloped that are relev	procurement logistics)			
Intende	ed leari	ning outcomes				
term, co re struc based o	Students learn the principles of performance-oriented optimization of all procurement activities to develop long- term, competitively sensitive potential for success. After completion of the module students are able to prepa- re structured, to goal-oriented analyze and to respond to performance-oriented issues of strategic procurement based on key instruments. Students are able to accurately classify the tasks of the procurement and to describe and discuss their strategic importance and dominate essential methods and procedures used in this area to ap-					
Course	S (type, n	umber of weekly contact hours	language — if other than Ger	rman)		
V (2) + Course		lternatively eLearning, S	5, WS			
Method	l of ass	essment (type, scope, langu	age — if other than German, o	examination offered — if no	t every semester, informati	on on whether
module is	creditab	le for bonus)				
b) pres c) term	entatio paper ge of a	nination (approx. 40 to n (approx. 20 minutes) (approx. 30 to 40 pages ssessment: German and bonus	and term paper (appro)	ox. 15 to 20 pages); (weighted 1:1) or	
Allocat	ion of p	olaces	_			
by lot a number	20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.				h a restricted	
Additio	nal inf	ormation				
Worklo	ad					
150 h	150 h					
Teaching cycle						
Teaching cycle: after announcement						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	in in				
	-	ee (1 major) Economath				
	-	ee (1 major) Business In ee (1 major) Business M	,	016)		
				concreted in Annual -	am rag da	nago (0, /
waster's wi	ui i majoi	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 181 / 590

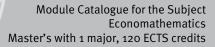


Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	Module title Abbreviation				
Industri	Industrial Management 2 12-M-LA-161-m01				
Module	coord	inator		Module offered by	
holder o Manage		Chair of Business Manage	ement and Industrial	Faculty of Managem	ent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
method	ls and i		scheduling. The focus	s is on the determina	ntrol. In addition, it develops ation of optimal production and
		ning outcomes			
the dete sequen cies are tative m le stude can also	Students learn essential concepts, principles and methods of production planning and control with emphasis on the determination of optimal production and transport volumes as well as the planning of production and order sequences. Then, based on this expertise related knowledge broadening and deepening, essential competencies are conveyed, which allow the imaging of realistic situations and problems using mathematical and quantitative models for the derivation and assessment of alternative courses of action. After completion of the module students can answer, analyze and structure questions of production planning and control, goal-oriented. They can also arrange the planning areas in the overall business context and have an in-depth overview of the production planning and control.				
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + ĺ Course		lternatively eLearning, S,	WS		
		s essment (type, scope, langua ₎ le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) prese c) term	entatio paper ge of a	nination (approx. 40 to 6 n (approx. 20 minutes) a (approx. 30 to 40 pages) ssessment: German and/ bonus	nd written elaboratio	n (approx. 15 to 20 p	ages); weighted 1:1 or
Allocati	ion of p	olaces			
by lot a number	20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.				
Additional information					
Worklo	ad				
150 h					
Teachin	ig cycl	9			
Teachin	ig cycle	e: after announcement			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	Module appears in				

Master's degree (1 major) Economathematics (2016)

Master's with 1 major Economathematics (2016)

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Wirtschaftsmathematik - 2016 

Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation						
Industi	rial Mai	nagement 3			12-M-SPM-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Business Manag	ement and Industrial	Faculty of Managen	nent and Economics	
Manag			r			
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
5	·	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme		graduate				
ning ar Studen cal moo princip ted ma	odule w nd cont nts will l dels wil les of v themat	vill discuss contents and rol concepts. become familiar with the Il be used for analysing I alue structure optimisat ical models.	e essentials of strateg both economic and ec	ic production manag ological issues. In a	ement. Theoretical a ddition, the module	and analyti- will discuss
		ning outcomes	<u> </u>			
strateg the ma	y struct in strat	on of the module studer cured and goal-oriented egic tasks and objective he production in realistic	in a global context us s in production mana	ing appropriate meth gement and evaluate	nods. Furthermore, t	hey know
Course	S (type, n	umber of weekly contact hours,	language — if other than Gei	rman)		
V (2) +	• •					
		Ilternatively eLearning, S				
		sessment (type, scope, langu le for bonus)	age — If other than German,	examination offered — if no	t every semester, informat	ion on whether
b) pres c) term	entatio paper ige of a	nination (approx. 40 to n (approx. 20 minutes) a (approx. 30 to 40 pages) ssessment: German and bonus	and term paper (appro)	ox. 15 to 20 pages); (weighted 1:1) or	
Allocat	ion of p	olaces				
by lot a numbe	imong a r of pla	Should the number of a all applicants irrespectiv ces will be allocated in t s they become available	e of their subjects. (2 he same procedure. () Places on all course	es of the module wit	h a restricted
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi						
		e: after announcement				
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	immes)		
Module						
	-	ee (1 major) Economathe ee (1 major) Business Int		016)		
Master's w	ith 1 majoı	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 185 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					
Industr	Industrial Management 4 12-M-BE-161-m01				
Module	coord	inator		Module offered by	
holder (Manage		Chair of Business Manage	ement and Industrial	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
ses with	h a spe	cial focus on catalogue-b	based procurement sy	ystems, electronic te	v supported procurement proces- ndering systems, electronic (re- d eSupply chain management sy-
Intende	ed learr	ning outcomes			
cureme sight in talog-ba supplie dule, st	The students will be able to describe and evaluate both the potentials and goals of electronic supported pro- curement systens and will be able to design appropriate systems for real-life applications. Students will get in- sight into the essentials of operational procurement management, especially e-procurement with a focus on ca- talog-based procurement systems, electronic tendering systems, electronic (reverse) auctions, e-marketplaces, supplier relationship management systems and eSupply chain management systems. After completing this mo- dule, students can define and analyze the related tasks and processes and show or develop theory-based and application-oriented possible solutions at a high professional level.				
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + l Course		Iternatively eLearning, S,	WS		
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) prese c) term d) entir Langua	a) written examination (approx. 40 to 60 minutes) or b) presentation (approx. 20 minutes) and term paper (approx. 15 to 20 pages); (weighted 1:1) or c) term paper (approx. 30 to 40 pages) or d) entirely or partly computerised written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus				
Allocati	ion of p	olaces			
de for s Econom	20 places. Should the number of applications exceed the number of available places, 15 places will be set asi- de for students of the Master's degree programmes Business Management and International Economic Policy or Economics and 5 places will be set aside for students of the Master's degree programme Wirtschaftsinformatik (Business Information Systems).				
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir					
		e: after announcement			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	appea	irs in			

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Business Processes Organisation, Business Software and Process Industries 12-GLP-161-m01 Module coordinator Module offered by Faculty of Management and Business Faculty of Management and Economics Information Systems Faculty of Management and Economics Soft and the organization of grading Only after succ. compt. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies can no longer be managed without using such ERP systems. In financial departments of companies, such systems have been denois time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within notopanies. They have learned how to identify selected problems in the organization and design of logistical task have acquired practical shull be effectively map business processes within an ERP system. 2. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of speci	Module title			Abbreviation		
holder of the Chair of Business Management and Business Faculty of Management and Economics Information Systems Faculty of Management and Economics ECTS Method of grading Only after succ. compl. of module(s) Duration Module level Other prerequisites 1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies, and systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes Intended learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding and designing ERP Systems: Students are capable of understanding and designing basic data tructures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within an ERP system. Students are capable of understanding and designing basic data tructures and data flows within an ERP system. They understand have to business processes considering the order showed apprecise business processes considering the second design of bugistical business objectives. 2. Understanding of the espectres industry. They understand have to granize business processes considering the integration into ERP Systems: Students are able to may core business processes within an ERP system. They arecapable of applying the integration of busi	Busines	Business Processes Organisation, Business Software and Process Industries 12-GLP-161-mo1				
Information Systems ECTS Method of grading Only after succ. compl. of module(s) Touration Module level Other prerequisites I semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies can no lon- ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP Solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intended learning outcomes Inter "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: I. Fundamental Knowledge of Business Processes Upon completing the course, students will posses a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. J. Understanding and Designing ERP System: Students are capable of understanding and designing ERP Systems: Students are capable of understanding and designing tab Systems. Application and Integration into ERP Systems: Students have gained specialized knowledge of the requirements of specific industrive, scupe, language – if other than German) V(2) + 0(2) Method of assessment type, scope, language – if other than German, examination offend – if not every semester, information on whether module is creditable for bonus Altonic Standard Commutes) Language of assessment type, scope, language – if other than German, examination offend – if not every semester, information on whether module is creditable for bonus Altonic To busines Commet Structures and ala policantions exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the modul	Module	coord	inator		Module offered by	
5 numerical grade			_	ement and Business	Faculty of Managem	nent and Economics
Duration Module level Other prerequisites 1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies can no lon- ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic da- ta structures and data flows within an ERP system. They have acquired practical skills to effectively map busi- ness processes within an ERP systems: Students are able to map core business processes con- sidering the specific characteristics of these industries. 2. Application in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific characteristics of these industries. 2. Application and Integraft on to ERP Systems:	ECTS	ECTS Method of grading Only after succ. compl. of module(s)				
1 semester graduate Contents ERP systems have become key elements of successful companies. Business processes in companies, such systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selected problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP System: Students are capable of understanding and designing basic data tstructures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within an ERP system. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes considering the specific characteristics of these industries. 4. Application and Integration into ERP Systems is Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP systems to suppo	5	nume	rical grade			
Contents ERP systems have become key elements of successful companies. Business processes in companies can no longer be managed without using such ERP systems. In financial departments of companies, such systems have been used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what dependencies have to be considered. Intended learning outcomes Intended learning outcomes: The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: I. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems: Students are capable of understanding and Designing ERP Systems. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements or specific industries, such as the process industry. They understand how to organize business processes considering the specific characteristics of these industries. 4. Application and Integration into ERP Systems to support business objectives. Courses (type, number of explying theoretical knowledge practically a	Duratio	n	Module level	Other prerequisites		
ERP systems have become key elements of successful companies. Business processes in companies can no lon- ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far no been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 2. Understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes con- sidering the specific characteristics of these industries. 4. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ú (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) Allocation of places 20 places. (1) Should the number of appli	1 semester graduate					
ger be managed without using such ERP systems. In financial departments of companies, such systems have be- en used for a long time, but business processes e.g. for logistical tasks have so far not been supported by ERP solutions. This module explains how this issue could be resolved as well as what constraints and what depen- dencies have to be considered. Intended learning outcomes The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic da- ta structures and data flows within an ERP system. They have acquired practical skills to effectively map busi- ness processes within an ERP system. 3. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes con- sidering the specific characteristics of these industries. 4. Application and Integration into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ū (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places, (1) Should the number of applications exceed the number of available places, places will be allocated by lot as mogal lapplicants irrespective of their subjects. (2) Places o	Conten	ts				
The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selected problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic data structures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific characteristics of these industries. 4. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + U (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus written examination (approx. 60 minutes) Language of assessment: German and/or English creditable places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available. Method Information	ger be r en usec solutior	nanage l for a l ns. This	ed without using such ER ong time, but business p module explains how th	P systems. In financi rocesses e. g. for log	al departments of co istical tasks have so	mpanies, such systems have be- far not been supported by ERP
The "Business Processes Organisation, Business Software and Process Industries" module aims to achieve the following learning outcomes: 1. Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selected problems in the organization and design of logistical business processes and develop solutions. 2. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic data structures and data flows within an ERP system. They have acquired practical skills to effectively map business processes within in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific characteristics of these industries. 4. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of business processes into ERP Systems to support business objectives. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ú (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.	Intende	d learr	ning outcomes			
V (2) + Ü (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle	followir 1. Fund unde ted p 2. Unde ta str ness 3. Spec of sp sider 4. Appli ERP s busir	 following learning outcomes: Fundamental Knowledge of Business Processes: Upon completing the course, students will possess a solid understanding of the essential business processes within companies. They have learned how to identify selec- ted problems in the organization and design of logistical business processes and develop solutions. Understanding and Designing ERP Systems: Students are capable of understanding and designing basic da- ta structures and data flows within an ERP system. They have acquired practical skills to effectively map busi- ness processes within an ERP system. Specialization in Industry Requirements: Participants have gained specialized knowledge of the requirements of specific industries, such as the process industry. They understand how to organize business processes con- sidering the specific characteristics of these industries. Application and Integration into ERP Systems: Students are able to map core business processes within an ERP system. They are capable of applying theoretical knowledge practically and optimizing the integration of 				
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle			umber of weekly contact hours, la	anguage — if other than Ger	man)	
module is creditable for bonus) written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle						
Language of assessment: German and/or English creditable for bonus Allocation of places 20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle				ge — if other than German, e	examination offered — if no	t every semester, information on whether
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle	Langua	ge of a	ssessment: German and			
by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available. Additional information Workload 150 h Teaching cycle	Allocati	ion of p	olaces			
 Workload 150 h Teaching cycle	by lot a number	by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo-				
150 h Teaching cycle	Additio	nal info	ormation			
150 h Teaching cycle						
Teaching cycle	Worklo	ad				
	150 h					
	Teachir	ig cycl	9			
Teaching cycle: winter semester	Teachir	ıg cycle	e: winter semester			

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) Information Systems (2022)

Module title Abbreviation				Abbreviation		
Theory of Industrial Organization 112-M-Tl1-161-m01				12-M-Tl1-161-m01		
Module	Module coordinator Mode			Module offered by		
holder	of the O	Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics	
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
5	5 numerical grade					
Duratio	Duration Module level Other prerequisites					
1 semes	ster	graduate				
Conten	ts					
 Theory of industrial organisation: Monopoly pricing Nonlinear pricing and mechanism design Dynamic pricing: experience goods, durable goods Oligopoly pricing Static price and quantity competition in homogeneous and differentiated goods markets Comparative statics Equilibrium market structure Dynamic competition in oligopoly markets Subgame perfect equilibrium and models of dynamic competition Repeated games and collusion 4. Strategic behaviour by incumbent firms Entry deterrence and predation Signalling and reputation Behavioral Industrial Organization Reference Dependent Preferences and Framing Effects Time inconsistent behavior 						
		l be taught in English.				
		ning outcomes	· · · ·			
Students which complete this class will acquire a working knowledge of advanced theoretical models of compe- tition in oligopoly markets as well as sophisticated pricing techniques in monopoly markets. They will learn the conditions under which the predictions of these models are valid. They will become familiar with applications of advanced game theoretic tools, such as dynamic models of competition, for studying interactions between firms in markets. By means of comprehensive exercises, they will apply the methods they learn in class to practical- ly relevant problems. They will be in a position to read academic papers on related topics, assess the strengths and weaknesses of an approach, summarize and comment on these papers and suggest possible extensions.						
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + (Ü (2)					
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) term Langua	a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus					
Allocati	ion of p	olaces				
Additio	nal info	ormation				

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module	Module title Abbreviation					
Theory	Theory of Industrial Organization 2 12-M-Tl2-161-m01					
Module coordinator Module offered by						
holder	of the (Chair of Industrial Econo	omics	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	ts					
This co Outline 1. The c nance, 2. Cont 3. Com 4. The c 5. The c 6. Inter 7. Forec Intende After cc (i) expl (ii) app (iii) rec	Description: This course discusses vertical contracts in supply chains and their impact on competition. Outline of syllabus: 1. The classic problem of double marginalisation and its solution by nonstandard contracts (resale price mainte- nance, nonlinear pricing (rebates), exclusive territories, exclusive dealing etc.) 2. Contracts for service 3. Common agency 4. The delegation principle 5. The commitment problem 6. Interlocking relationships 7. Foreclosure by vertical contracts or mergers Intended learning outcomes After completing the course students are able to (i) explain the results of theoretical industrial economics on vertical contracts; (ii) apply the involved methods to given simple examples on their own; (iii) recognize, in which real life situations (and how) the results can be applied;					
		e impact of certain verti				
	S (type, n	umber of weekly contact hours	, language — if other than Ge	rman)		
		s essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term Langua Assess	a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered creditable for bonus					
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teachi	ng cycl	e	_			
		e: no courses offered				
		LPO I (examination regulatio	ns for teaching-degree progra	ammes)		
		-				
Module	e appea	irs in				
Master's wi	ith 1 majoı	Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 193 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Modul	e title				Abbreviation
Project Management and Control					12-M-PROM-161-m01
Modul	e coord	linator		Module offered by	<u> </u>
	of the	Chair of Business Manage	ement, Controlling	Faculty of Managen	nent and Economics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5		rical grade			
Durati	on	Module level	Other prerequisites	i	
1 seme	ester	graduate			
Conte	nts		1		
ment a metho as wel	are cons ds and l as pot	sidered. It covers character instruments of control ar cential applications of the	eristic features and s id management of pr	tructures of projects, ojects in various pro	pproaches to project manage- , their possible success factors, ject phases. The theoretical basis
Intend	led lear	ning outcomes			
fields thin th	of appli ie confi	cation and limits of comr	nonly used instrume	nts and methods of p	and weaknesses and therewith practitioners. Competences wi- as well as skills within the practi-
Course	es (type,	number of weekly contact hours, l	anguage — if other than Ge	rman)	
V (2) +	Ü (2)				
		sessment (type, scope, langua ole for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
		nation (approx. 60 minut assessment: German and			
Alloca	tion of	places			
Additi	onal inf	ormation			
Workl	oad				
150 h					
-	ing cycl	e			
		e: winter semester			
		LPOI (examination regulation	s for teaching-degree progra	ammes)	
				/	
	e appe	arc in			
Modul					
			matics (2016)		
Maste	r's degr	ee (1 major) Economathe ee (1 major) Business Ma			
Maste Maste	r's degr r's degr	ee (1 major) Economathe	nagement (2015)	2016)	
Maste Maste Maste	r's degr r's degr r's degr	ee (1 major) Economathe ee (1 major) Business Ma	nagement (2015) ess and Economics (2		

Module title Abbreviation					
Decision S	Decision Support Systems 12-M-DSS-161-m01				
Module co	oordinator		Module offered by		
holder of t	the Chair of Business Analy	tics	Faculty of Managem	nent and Economics	
ECTS M	ethod of grading	Only after succ. con	npl. of module(s)		
5 nı	umerical grade				
Duration	Module level	Other prerequisites	i		
1 semeste	r graduate				
Contents					
	e discusses advanced appi red insights are used to de				
Intended l	learning outcomes				
 Und Isola Solv stoc 	essfully completing the cou lerstand the structure of cla ate key elements from gene ve different classes of opti chastic) lement decision support sy	ssic business decisior ral problem descriptior mization problems (lir	problems s and convert them to		
Courses (ty	ype, number of weekly contact hour	, language — if other than Ge	rman)		
V (2) + Ü (2	2)				
	f assessment (type, scope, lang editable for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) oral exa approx. 30 Language	examination (approx. 60 m amination (one candidate e o minutes) of assessment: German an for bonus	ach: approx. 15 to 20 r	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:
Allocation	of places				
Master's s on. (2) The cordance allocated	e number of applications e students of Wirtschaftsinfor e remaining places will be a with (1) and (2) and the nur by lot among applicants fro	matik (Business Inforn Illocated to students o nber of applications ex	nation Systems) will f other subjects. (3) \	be given preferentia Nhen places are allo	l considerati- ocated in ac-
Additiona	linformation				
Workload					
150 h					
Teaching	cycle	-			
Teaching o	cycle: winter semester				
Referred t	o in LPO I (examination regulati	ons for teaching-degree progra	nmmes)		
Module ap	opears in				
Master's d	degree (1 major) Economath degree (1 major) Business I degree (1 major) Business N	nformation Systems (2	016)		
Master's with 1	major Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 196 / 590

Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module	Module title Abbreviation					
E-Busiı	-Business Strategies 12-M-IBS-161-m01					
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Information Sys	stems Engineering	Faculty of Managen	nent and Economics	
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	6		
1 seme	ster	graduate				
Conten	Its					
industr applied	ries and d to dig	rovides an overview of d value networks. To the ital innovations and illu nown digital companies	s end, concepts and fr ustrated with numerou	rameworks from strat s examples. In the ac	egic technology mar ccompanying exercis	nagement are
Intend	ed lear	ning outcomes				
logies.	differe	theoretical concepts of nt frames of reference				
- Trans	fer the	concepts to real busine	ess situations			
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, lang ble for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
b) oral approx	examir . 30 mi age of a	ssessment: German ar	ach: approx. 15 to 20 r	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:
Allocat	ion of j	places				
follows consid cated i ces wil	40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in accordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group.					
Additio	Additional information					
	Workload					
150 h						
Teaching cycle						
	Teaching cycle: winter semester					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module						
	-	ee (1 major) Economatł ee (1 major) Business I		016)		
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 198 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation				Abbreviation	
Business Software 1: IS-based Enterprise Management				12-GPU-161-m01	
Module	e coord	inator		Module offered by	<u>.</u>
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managen	nent and Economics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	Duration Module level Other prerequisites				
1 seme	ster	graduate			
Conten	ts				
stems a busines which f Section The firs pany. S	The module offers a comprehensive insight into the world of Enterprise Resource Planning (ERP) systems. ERP sy- stems are central building blocks in modern business management and play a crucial role in the integration of business processes, data management and decision-making. This module is divided into three sections, each of which focuses on practical applications and examples in addition to theory. Section 1: ERP selection process with application examples of two ERP systems The first part of the module is dedicated to the complex process of selecting a suitable ERP system for a com- pany. Students are familiarized with proven methods and tools that are used in the evaluation of ERP systems. Using case studies, students compare two different ERP systems and apply the selection process in a real-life en- vironment				
In this p of indiv ny in th	Section 2: Low-code and no-code systems with application examples In this part, students are familiarized with low-code and no-code platforms that enable the efficient development of individual ERP applications. The focus is on dealing with a specific software solution from a leading compa- ny in this field. Students learn the basics of these platforms and create their own applications in order to experi- ence the advantages of low-code and no-code approaches in practice.				
In the fi system	inal pa SAP S	4HANA. Students are en	ics of customizing EF abled to adapt SAP S	RP software. The focu /4HANA to the spec	us is on the world's leading ERP ific requirements of a company. niques in real-life scenarios.
					offer the opportunity to access ans of extensive case studies.
Intende	ed lear	ning outcomes			
the foll 1. ERP S stem 2. Integ ons. 3. Selec stem 4. Imple	 The "Business Software 1: Management and Implementation of Information Systems" module aims to achieve the following learning outcomes: 1. ERP Systems - Overview and Differentiation: Students gain a comprehensive understanding of various ERP systems, their architectures, and philosophies. 2. Integration of Business Processes: Participants learn how ERP systems map and optimize business operations. 3. Selection and Customizing of ERP Systems: Students develop skills to evaluate, select, and adapt ERP systems to meet business needs. 4. Implementation of Business Processes: Students gain practical experience in independently implementing business processes in ERP and low-code/no-code platforms, and learn practical ERP customizing. 				
		umber of weekly contact hours, l	· · · · · ·		<u> </u>
V (2) +		, ,		,	
Methoo module is	d of ass creditab	le for bonus)		examination offered — if no	ot every semester, information on whether
a) writt	a) written examination (approx. 60 minutes) or				

Master's with 1 major Economathematics (2016)

b) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or
c) term paper (approx. 15 to 20 pages)
Language of assessment: German and/or English

Assessment offered: Once a year, winter semester

creditable for bonus

Allocation of places

UNIVERSITÄT

WÜRZBURG

20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

WUIKIUa

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title			Abbreviation		
Business Software 2: Enterprise-Resource-Planning-Systems			ns	12-M-ERP-161-m01	
Module	e coord	inator		Module offered by	
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	5 numerical grade				
Duratio	Duration Module level Other prerequisites				
1 seme	ster	graduate			
Conten	ts				
in enter	rprises				analysis of business processes port real-time decision-making
Intende	ed leari	ning outcomes			
 Undeculat culat the a mate Applianage Cond even They actio Imple to au learn stem Enga tical ment effec Deves siona peter 	erstand e the fi bility to d tools ication ment p lucting t logs a will lea nable i ementa tomate to ide s to en gemen unders c. They tively a lopmen al skills ncies a	undamental theories and o analyze, redesign, and o analyze, redesign, and o f Modern Data Manager practices that are essentia Process Mining: Student and analyze this informat arn to apply process mini mprovements. ation of Process Automati e business processes usin ntify suitable processes usin ntify suitable processes usin thify sui	practical methodolo implement improved ment Techniques: Stu- al for real-time decisions s will develop skills i ion to uncover inefficion on Solutions: The con- ng industry-standard for automation, design ncy. Ind Practical Application fundamental resear sperience through case loge to solve real-world tencies: Throughout ing, problem-solving, career development in	gies of Business Pro business processes udents will acquire c on-making in busine n process mining, er iencies and opportu ues to real datasets, urse equips students automation software n automation workfl ion: Students will ex ch papers in the field se studies and hands d problems. the course, students teamwork, and effect	urse, students will be able to arti- cess Management. This includes s both manually and using auto- ompetencies in modern data ma- ess contexts. habling them to extract data from nities within business processes. interpret results, and propose s with the knowledge and skills e such as UiPath. Students will ows, and implement these sy- pand their academic and prac- d of Business Process Manage- s-on projects, allowing them to s will develop a range of profes- ctive communication. These com- Management and related fields.
		umber of weekly contact hours, l	anguage — If other than Ger	man)	
module is a) writte b) oral e approx. c) term Langua	d of ass creditab en exar examin . 30 mi paper ge of a ment o	le for bonus) mination (approx. 60 min lation (one candidate eac nutes) or (approx. 15 to 20 pages) ssessment: German and, ffered: Once a year, sumi	utes) or :h: approx. 10 to 15 m /or English		t every semester, information on whether approx. 20 minutes; groups of 3:

UNIVERSITÄT WÜRZBURG

Allocation of places

20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Master's with 1 major Economathematics (2016	5)
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	e title				Abbreviation	
Analytical Information Systems					12-Bl-161-m01	
Module coordinator				Module offered by		
Dean of the Faculty of Business Management and Econo-					nent and Economics	
mics		actually of Business man		racatly of manager		
ECTS	Meth	od of grading	Only after succ. cor	y after succ. compl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level Other prerequisites					
1 seme	semester graduate					
Conten	nts	•				
cus is o	on indi	ovides an overview of tl vidual quantitative met e for participation in this	hods of data analysis.			
Intend	ed lear	ning outcomes				
		rovides students with k	nowledge of:			
		nousing & OLAP	1 mathada af data ana	lucic		
		al application areas and		•		
		number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) +						
		sessment (type, scope, lang ble for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		nation (approx. 60 min				
		assessment: German an	d/or English			
credita						
Allocat		places				
	່ the nເ					
on. (2) cordan	The re ice with	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	When places are allo	Il considerati- ocated in ac-
on. (2) cordan allocat	The re ice with ed by l	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat	The re ice with ed by l	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic	The rep ace with ed by l onal inf	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo	The rep ace with ed by l onal inf	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h	The rep ace with and by l and inf	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h Teachin	The rem ice with ed by l onal inf oad	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation	matik (Business Inforr allocated to students o nber of applications e	nation Systems) will f other subjects. (3)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additio Worklo 150 h Teachin	The rent for the r	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation	matik (Business Informatik (Business Informatic allocated to students on the students on this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additio Worklo 150 h Teachin	The rent for the r	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation	matik (Business Informatik (Business Informatic allocated to students on the students on this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additio Worklo 150 h Teachin Teachin Referre	The rent rece with the device with the device with the device of the dev	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulation	matik (Business Informatik (Business Informatic allocated to students on the students on this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo	The rentries with the design of the rentries of the design	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulation ars in	matik (Business Inform allocated to students of mber of applications en- om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo	The reit rece with red by I onal inf oad ng cycl red to in e appea	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulation ars in ree (1 major) Economath	matik (Business Information (Business Information) allocated to students of the students of th	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additio Worklo 150 h Teachin Teachin Referre Module Master Master	The red red by I onal inf oad ng cycl ed to in e appea r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulation ars in	matik (Business Inforr allocated to students on mber of applications en- om this group.	nation Systems) will f other subjects. (3) xceeds the number o	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Module Master Master Master	The rest rece with ponal inf ponal i	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulation ars in ree (1 major) Economath ree (1 major) Business In	matik (Business Inform allocated to students of mber of applications en- om this group.	nation Systems) will f other subjects. (3) ' xceeds the number o ammes) 016)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo Master Master Master Master	The red teed by I onal inf oad ng cycl ed to in e appea r's degr r's degr r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation e: summer semester LPO I (examination regulation ars in ree (1 major) Economath ree (1 major) Business In ree (1 major) Business In	matik (Business Inforr allocated to students on mber of applications en- om this group.	nation Systems) will f other subjects. (3) xceeds the number o ammes) 016) 2016)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Yorklo 150 h Teachin Teachin Teachin Referre Modula Master Master Master Master Master Master	The rest rece with paal inf paal ng cycl ed to in e appea r's degr r's degr r's degr r's degr	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation ee: summer semester LPO I (examination regulation ars in ree (1 major) Economath ree (1 major) Business In ree (1 major) Business In ree (1 major) Business In ree (1 major) China Busi ree (1 major) Internation ree (1 major) China Lang	matik (Business Inform allocated to students of mber of applications er- om this group.	ammes) 016) 2016) 2016)	be given preferentia When places are allo	Il considerati ocated in ac-
on. (2) cordan allocat Additic Worklo 150 h Teachin Teachin Referre Modulo Master Master Master Master Master Master Master	The rest rece with onal inf onal info onal info info info info info info info info	ents of Wirtschaftsinfor maining places will be a n (1) and (2) and the nur ot among applicants fro formation ee summer semester LPO I (examination regulation ars in ree (1 major) Economath ree (1 major) Business In ree (1 major) Business In ree (1 major) China Busi ree (1 major) Internation	matik (Business Informations ender of applications (2016) and anagement (2015) and Economics (2018) ent (2018)	ammes) 016) 2016) 2016)	be given preferentia When places are allo f available places, p	Il considerati ocated in ac-



Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Mobile	Mobile and Ubiquitous Systems 12-M-MUS-161-mo1					
Module coordinator				Module offered by		
holder of the Chair of Information Systems Engineering			tems Engineering	Faculty of Managem	nent and Economics	
ECTS	Meth	od of grading	Only after succ. compl. of module(s)			
5	nume	rical grade				
	uration Module level Other prerequisites					
1 seme	ster	graduate				
Conten	ts					
Concep	ots and	rovides an overview of to applications are illustra gs. In the accompanying	ited using numerous e	examples from mobil	e telecommunication	ns to the In-
Intende	ed lear	ning outcomes				
- Under	rstand	the technological basics	of mobile & ubiquito	us computing.		
- Analy	sing bu	isiness applications in p	processes, products/s	ervices and business	s models	
- Apply	the co	ncepts learned to real-li	fe problems in a busin	ess context		
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	man)		
Ü (2) +	V (2)					
a) writt b) oral approx Langua credita Allocat Additio Worklo 150 h Teachin	en exa examir . 30 mi ge of a ble for ion of p mal inf ad	ssessment: German and bonus places ormation	nutes) or ach: approx. 15 to 20 n			
Keferre	a to in	LPO I (examination regulation	ns tor teaching-degree progra	mmes)		
		•				
Module appears in						
Master Master Master Master Master Master Master	's degr 's degr 's degr 's degr 's degr 's degr 's degr 's degr	ee (1 major) Economatho ee (1 major) Business In ee (1 major) Business M ee (1 major) China Busin ee (1 major) Internationa ee (1 major) Media Comu ee (1 major) China Langu ee (1 major) Media Comu ee (1 major) Managemer	formation Systems (20 anagement (2015) less and Economics (2 al Economic Policy (20 munication (2016) Jage and Economy (20 munication (2018) nt (2018)	2016) 15)	ım. reg. da-	page 206 / 590
master S W	iti i najo			(120 ECTS) Wirtschaftsmathe		page 200 / 590

Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) Media Communication (2019) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021)

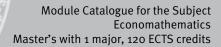
Module	e title				Abbreviation	
Strateg	gic Man	agement of Global Supp	ly Chains		12-M-SMGS-161-m01	
Module coordinator				Module offered by		
holder	of the (Chair of Logistics and Qu	antitative Methods	Faculty of Manager	nent and Economics	
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	es		
1 seme	ster	graduate				
Conten	Its		•			
	les of b				ecome familiar with the basic nave learned working on multiple	
Intend	ed lear	ning outcomes				
(i) can results	apply t , and	ng this course students he basic methods and co d the effects of global va			practical settings and evaluate the	
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether	
	age of a	nation (approx. 60 minut ssessment: German and bonus				
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycle	e: no courses offered				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master Master Master	's degr 's degr 's degr	ee (1 major) Economathe ee (1 major) Business Inf ee (1 major) Business Ma ee (1 major) China Busin ee (1 major) Internationa	ormation Systems (2 anagement (2015) ess and Economics (2	2016)		
	-	ee (1 major) China Langu		-		



Human Resource Management and Organization

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title Abbreviation							
Incentiv	Incentives in Organizations 12-M-AO-161-m01						
Module coordinator Module offered by							
holder of the Chair for Human Resource Management and Faculty of Management and Economics Organisation							
ECTS	TS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Conten							
		classical principal-ager ganisations. It uses con					
Outline	of syll	abus					
1. Princi	ipal-ag	ent theory					
2. Do to	p man	agers earn too much? (application)				
3. Perfo	rmanc	e-based payment					
4. Imple	ementa	ition of performance-ba	ised payment in comp	anies (application)			
5. Senic	ority pa	yment (with application	n)				
6. Financial incentives to work after retirement (with application)							
7. Effici	7. Efficiency wages (with case study)						
		tives (with case study)					
		ning outcomes					
Students acquire a working knowledge of key incentive models models, selected empirical applications and the necessary econometric background. This enables them to identify the advantages and disadvantages of different incentive systems that are applied in the enterprise context, to make informed management analyses and to critically evaluate current controversies and developments as well as to conduct their own research.							
Courses	S (type, n	umber of weekly contact hours	, language — if other than Ge	rman)			
V (2) + ĺ	Ü (2)						
		e essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English							
Allocation of places							
Additio	nal inf	ormation					
Workload							
150 h							
Master's wit	th 1 major	Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmather	-	page 211 / 590	

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Human Resource Management and Industrial Relations12-M-HRM-					12-M-HRM-161-m01	
Module coordinator N				Module offered by		
holder of the Chair for Human Resource Management and Organisation				Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	mpl. of module(s)		
5	nume	rical grade				
Durati	uration Module level Other prerequisites					
1 seme	1 semester graduate					
Conte	nts		_			
techni	ques ar Is the di		the areas of human r		advanced theories, estimation ent and institutional frameworks	
		Human Resource Manag	ement & Industrial Re	lationships		
		e employment contract [i		······································		
Chapte	er 2: Mo	tivation [formal model]				
Chapte	er 3: Em	ployee resistance again	st reorganisations [en	npirical study]		
Chapte	er 4: The	e role of works councils	[formal model]			
Chapte	er 5: Wo	rks councils and the em	ployer wage structure	[empirical study]		
Chapte	er 6: The	e behaviour of labour un	ions [formal model]			
Chapte	er 7: Lea	arning process of employ	yers [formal model and	d empirical study]		
		mographic challenges o	f HRM [formal model a	and empirical study]		
Intend	led lear	ning outcomes				
	npirical				theories, estimation technique lations on the basis of scientifi	
Course	es (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
V (2) +	Ü (2)					
		Sessment (type, scope, langu Ile for bonus)	age — if other than German,	examination offered — if no	t every semester, information on whether	
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English						
	tion of _j					
mes B matior China	usiness 1 Syster Busines	Management, Internations), Wirtschaftsmathem	onal Economic Policy atik (Mathematics for al of 20 places will be	or Economics, Wirtso Economics) and Chin allocated to student	of the Master's degree program haftsinformatik (Business Infor nese and Economics as well as s of other subjects; should the	

Master's with 1 major Economathematics (2016)

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
exchange program Business Management and Economics (2022)

Master's with 1 major Economathematics (2016)



Compulsory Core Electives

(10 ECTS credits)

Module title					Abbreviation
Management and Leadership in Organizations					12-MFO-161-m01
Module coordinator				Module offered by	
Dean of the Faculty of Business Management and E mics			anagement and Econo-	Faculty of Management and Economics	
ECTS	Meth	Method of grading Only after succ. co		mpl. of module(s)	
5	nume	rical grade			
Duration Module level		Other prerequisites	Other prerequisites		
1 semester graduate					
Contents					

Part I:

The complexity of the modern work environment and the constantly changing organisational structures of companies lead to a demand for young mangers with a high diversity of expertise that are able to play their part in managing the organisational world. The lecture will provide students with an insight into the characteristics, tasks and instruments as well as the challenges of management in organisations and situations that are becoming ever more complex.

Outline of syllabus:

- Introduction -- Power in the daily management routine
- Fundamentals of management in complex organisations
- Tasks and instruments of management
- Leadership in an intercultural context
- Assurance of employability
- Conclusion -- Management of supervisors and colleagues

Part II: Today's world of work is characterised by continuous change in a global context. Mergers, integrations and acquisitions - these are key terms in this context.

The majority of change processes does not have the desired effect or even fails. This is not least due to the fact that not enough attention is paid to the complexity of these processes and to employees.

The support and integration of successful change processes is a central responsibility of managers as well as a complex and central task that requires sound preparation.

Outline of syllabus:

- Introduction typical change scenarios
- Psychological basics and concepts
- Approaches and control in change projects
- Measures and instruments of change management
- The role of management
- Conclusion example of application acquisitions and cases

Intended learning outcomes

Part I: Course objectives:

- Provide a widespread insight into the current status of theory and practice regarding management in complex organizations
- Introduction of essential tasks and instruments of managers and their apply to authentic cases.
- To illustrate and reflect the tensions of management in complex situations and international context Part II: Course objectives:

Provide a widespread insight into the current status of theory and practice regarding changes

- Introduction, suitability of daily use and critical reflection of essential concepts, models and methods
- Foster the understanding for the necessity, complexity of changes as well as their constraints and barriers.

Courses (type, number of weekly contact hours, language – if other than German)

V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus
Allocation of places
Additional information
Workload
150 h
Teaching cycle
Teaching cycle: no courses offered
Referred to in LPO I (examination regulations for teaching-degree programmes)
Module appears in
Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation	
Employment Law					12-M-AFW-161-m01
Modul	e coord	inator		Module offered by	
Dean of the Faculty of Business Management mics			gement and Econo-	Faculty of Management and Economics	
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)	
5	nume	rical grade			
Duration Module level		Other prerequisites			
2 semester graduate					
Contents					

Contents: employment and labour law and works constitution law incl. collective agreement law

Employment and Labour law

Legal sources of employment and labour law

Definitions, employment and labour law, employees

The employment contract

- Job application, permissible and impermissible questions in job interviews, consequences of lying, contesting the employment contract
- General Equal Treatment Act, claims for damages by applicants
- Conclusion of an employment contract, form, evidence under the Law of Proof of Substantial Conditions Applicable to the Employment Relationship
- Contents of the employment contract, company practice, overall commitment, reservation of the right of voluntariness and revocation
- General terms and conditions of business and control of terms and conditions of employment, invalid clauses and their consequences
- Limitation of the term of the employment contract, fixed term employment contracts

Rights and duties arising from the employment relationship

- Primary and secondary duties
- Employer's right to issue instructions, permissible and impermissible instructions
- Sickness, obligations to report and provide evidence under the Continued Remuneration Act
- Secondary employment, prohibition of competition, duty of confidentiality, occupational health and safety
- Granting of holiday leave
- Continued payment of wages in the event of illness, restrictions

Severe disability, special rights and protection against dismissal

Working hours and the Working Hours Act

The warning, formal and material requirements, consequences

Termination of employment

- Termination agreement
- Termination of employment
- Formal requirements
- Ordinary and extraordinary termination by the employer
- Behavioral termination
- Person-related (illness-related) dismissal

UNIVERSITÄT WÜRZBURG

- Dismissal for operational reasons
- Special protection against dismissal

Works constitution law incl. collective bargaining law

Legal sources of works constitution law

Definitions, company, works council, employee

The works council and its role

- Works council elections
- Start, end, duration of term of office
- Legal status of members, honorary office, leave of absence, special protection against dismissal
- Entitlement for training, works council costs
- Works meetings
- General works council, group works council, youth/apprentice representation

Material co-determination of the works council, participation

- Information rights (access to gross pay roll, expert advice)
- Consultation rights (consultation before each dismissal, right to object)
- Consultation rights (involvement of the economic committee, changes in operations)

Co-determination in the narrower sense

- Rights of consent and objection (staff questionnaire, selection guidelines, recruitment, transfers)
- Refusal of consent, legal proceedings Substitution of consent

Co-determination rights

- Enforceable co-determination, conciliation board, composition, procedure, decision
- Mandatory co-determination rights of works council, e.g. regarding
- Conduct of the workplace (smoking and alcohol bans, formalized sick leave talks, occupational integration management)
- Working hours, breaks, shift and flexi-time models, overtime, short-time work
- Holidays, company holidays
- Technical equipment for monitoring (time recording, access systems, video surveillance, telephone and internet use, skills database)
- Occupational health and safety
- Social facilities (canteen, company kindergarten)
- Company wage structure, remuneration (piece rates, bonuses)
- Company changes, reconciliation of interests and social plan

Collective bargaining law

Definition, contractual and normative part, legal effect

Application of collective agreements, parties of collective agreements

Dynamic and static clauses referring to a collective agreement

Collective agreement and company agreements, blocking effect of collective agreement

Collective arbitration board in cases of compulsory works council co-determination

Intended learning outcomes

At the end of this course, students will have the following competences:

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Students gain solid basic knowledge of employment and labour law, the works council and its tasks and an overview of collective agreement law. At the same time, methodically and substantively sound legal knowledge is conveyed and practical relevance is established with case studies and current case law.

By working on an exam in the form of a legal opinion, the students are taught to solve a demanding legal issue with legal problems in a given time. Within a narrow thematic field and a time-limited framework, they are able to work on a legal issue in a well-founded and largely independent manner.

Within the framework of the term paper on a judgement of the Federal Labour Court, the students deal with a concrete case and the case law of the highest German labour court. They are familiarised with the methods of legal work and are enabled to work independently in a problem-solving manner. In addition to understanding the facts of the case and the legal problems, they will focus primarily on the consequences of the judgement for their practice. Here, the legal knowledge imparted will be implemented with a practical approach and the opportunity to creatively develop their own recommendations on how to deal with the judgement. In addition, the students present the case and their own conclusions for practice. In the group discussion, the other students have the opportunity to gather further knowledge and actively participate in the exchange of opinions on current judgements and case law.

The knowledge imparted is relevant for a wide range of professional fields of activity and is especially valuable for students who will work in the field of human resources or are interested in the field of employee management.

Courses (type, number of weekly contact hours, language – if other than German)

S (2)

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

[a) written examination (approx. 120 minutes) and b) talk (approx. 30 minutes), weighted 3:2] or [a) written examination (approx. 120 minutes) and c) presentation (approx. 15 minutes) and d) written elaboration of presentation (approx. 10 pages), weighted 3:1:1]

Allocation of places

30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

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Workload

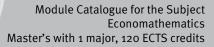
150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Master's degree (1 major) Economathematics (2016)						
Master's degree (1 major) Business	Management (2015)					
Master's degree (1 major) China Bus	iness and Economics (2016)					
Master's degree (1 major) Internatio	nal Economic Policy (2015)					
Master's degree (1 major) China Lan	guage and Economy (2016)					
Master's degree (1 major) Managem	Master's degree (1 major) Management (2018)					
Master's degree (1 major) China Bus	iness and Economics (2019)					
Master's degree (1 major) China Language and Economy (2019)						
Master's degree (1 major) China Business and Economics (2021)						
Master's degree (1 major) China Language and Economy (2021)						
Master's with 1 major Economathematics (2016)	pr Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 220					
ta record Master (120 ECTS) Wirtschaftsmathematik - 2016						



Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Advanc	ed Mic	roeconomics			12-M-AM-161-m01	
Module	e coord	inator		Module offered by		
holder formati		Chair for Economics, Cont nomics	tract Theory and In-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
foundar lysis an al decis riskless and lim Through and tall (e.g., di it will a introdu ant tha The exp • <i>N</i> • Je Intende	In a nutshell, microeconomic theory considers the behavior of individual economic agents and builds from this foundation to a theory of aggregate economic outcomes, which then can be applied for conducting welfare analysis and giving policy advice. This lecture addresses the core building block of this thought complex: individual decision making and behavior. Specifically, students will come to understand in detail the standard models of riskless consumer choice, choice under risk and intertemporal choice and learn about the empirical challenges and limitations of these models. Throughout the lecture, we will work with precise mathematical formalizations of the ideas that we want to think and talk about. In consequence, a solid understanding of the mathematical toolbox of standard microeconomics (e.g., differential calculus and constrained optimization; basic set theory; integration by parts) will be helpful as it will allow to focus on the underlying economic intuition. However, every required mathematical concept will be introduced and explained along the way, such that a strong interest in formal economic analysis is more important than an advanced mathematical background. The exposition is primarily based on the standard graduate textbooks Mas-Colell, Whinston and Green (1995): "Microeconomic Theory" Jehle and Reny (2001): "Advanced Microeconomic Theory"					
• a	pply th	essential findings of mici e involved methods to gi	ven stylized example			
		ze in which real life situat number of weekly contact hours, l	-			
V (2) +				inun <i>j</i>		
Method	l of ass	Gessment (type, scope, langua le for bonus)	ge — if other than German, d	examination offered — if no	t every semester, information on whether	
a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus						
Allocation of places						
Additional information						
Worklo	ad					
150 h	150 h					

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Theory	Theory of Industrial Organization 2 12-M-Tl2-161-m01					
Module	e coord	inator		Module offered by		
holder	of the (Chair of Industrial Econo	omics	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
Description: This course discusses vertical contracts in supply chains and their impact on competition. Outline of syllabus: 1. The classic problem of double marginalisation and its solution by nonstandard contracts (resale price mainte- nance, nonlinear pricing (rebates), exclusive territories, exclusive dealing etc.) 2. Contracts for service 3. Common agency 4. The delegation principle 5. The commitment problem 6. Interlocking relationships 7. Foreclosure by vertical contracts or mergers Intended learning outcomes After completing the course students are able to (i) explain the results of theoretical industrial economics on vertical contracts; (ii) apply the involved methods to given simple examples on their own;						
		e impact of certain vert				
	S (type, n	umber of weekly contact hours	, language — if other than Ger	rman)		
		s essment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered creditable for bonus						
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master's w	ith 1 majoı	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 224 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Theory	Theory of Social Policy				12-M-TSP-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Labour Economi	CS	Faculty of Managen	nent and Economics	
ECTS Method of grading			Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
gns in t the epis shown which la science The sec tal varia to answ ment of	This course offers an introduction to the fundamentals of causal inference and to widely used research desi- gns in the social sciences. In the first part a framework for understanding causality is introduced. Specifically, the epistemological differences between association, intervention and counterfactuals are explained. Then it is shown why experiments are paramount in generating causal knowledge and which assumptions are needed for which level of the causal hierarchy. Finally, we will discuss two widely used approaches to causality in the social sciences, i.e. potential outcomes and directed acyclic graphs. The second part is devoted to the research designs regressions analysis, difference-in-differences, instrumen- tal variables, and regression discontinuity. The emphasis is how these research designs are for example applied to answer important questions in labour economics such as the effects of a minimum wage increase on employ- ment or the effect of children on female labour supply and wages.					
lecture. stion. F	. There urther,	ons each research design fore the emphasis is to to the research designs ar- s to other questions and	each students <i>what</i> o e discussed such that	ne needs to estimate	e in order to answer	a given que-
Intende	ed lear	ning outcomes				
rence, a	as well	he course, students sho as read, interpret, and a ation for advanced statis	ssess the credibility o	of scientific publicati		
		umber of weekly contact hours,	language — if other than Ger	man)		
V (2) +	Ü (2)					
		essment (type, scope, langua le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	ion on whether
b) term	paper	nination (approx. 60 miı (approx. 15 pages) ssessment: German and				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
		ee (1 major) Economathe Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 226 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title	Abbreviation								
Labor Market Economics				12-M-OEA-161-m01					
Module coordinator			Module offered by						
holder of the Junior Professo Economics of Digitization	orship of Mi	croeconomics, esp.	Faculty of Managem	nent and Economics					
ECTS Method of grading		Only after succ. com	pl. of module(s)						
5 numerical grade									
Duration Module level	l	Other prerequisites							
1 semester graduate									
Contents									
This course provides an overview of the field of modern labor economics. The course will cover the following to- pics: 1. Labor supply 2. Labor demand 3. Human capital formation 4. Compensating wage differentials 5. Discrimination The course will consist of frontal teaching of the basic theoretical as well as empirical tools as well as a careful reading of some of the key scientific articles related to the outlined topics. Students are expected to read the scientific articles in advance and will be asked to discuss them in small groups during class. In addition, a dis- cussion of the articles will help illustrating how established scholars approach the core questions in modern la- bor economics and giving students an understanding of high quality empirical research. The main reference for the lecture is Cahuc and Zylberberg. (2004): "Labor Economics", 1st edition, Massachu- setts Institute of Technology. In addition, we will discuss well-published economic articles related to the single									
Intended learning outcome	s								
encourage the development	t of research eoretical mo	n interest in this field	. As such, the course	opics in labor economics and to e's objective is to familiarize stu- ain econometric methods used					
Courses (type, number of weekly of	contact hours, la	anguage — if other than Ger	man)						
Ü (2) + V (2)									
Method of assessment (type, module is creditable for bonus)	, scope, languag	ge — if other than German, e	examination offered — if no	t every semester, information on whether					
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English									
Allocation of places									
Additional information									
Workload									
150 h									
Teaching cycle									
Teaching cycle: no courses	offered			Teaching cycle: no courses offered					

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module title				Abbreviation		
Social	Social Insurance and the Welfare State					
Module	e coord	inator		Module offered by		
holder of the Chair of Public Finance			- F	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 semester graduate						
Conten	Contents					
This mo and pro retirem Readin Conten 1. Publi 2. The i	Description: This module discusses the economic justification for implementing social security systems in a market economy and provides students with deeper insights into this topic with the help of specific issues of public health and retirement policy. Reading: lecture notes provided by Chair. Contents: 1. Public intervention in insurance markets 2. The insurance function of social security					
4. The o 5. Why	optima do we	rity and social morale l health insurance contr need a public pension s pay-as-you-go financing	system?			
	_	ning outcomes	5			
dation cuss th	of the s le finan	ng the module "Theorie social security system ir cing and contract struct uences of policy reform	n a market economy. U ture of the public healt	sing simple partial e	quilibrium models t	hey can dis-
Course	S (type, r	number of weekly contact hours	, language — if other than Ger	rman)		
V (2) +	Ü (2)					
		Sessment (type, scope, langule for bonus)	uage — if other than German, o	examination offered — if nc	t every semester, informati	on on whether
b) term	paper	mination (approx. 60 m (approx. 15 pages) ssessment: German an				
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: winter semester						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	-	ee (1 major) Economath ee (1 major) Business Ir		016)		
Master's wi	ith 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 230 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title					Abbreviation		
Microeconometrics					12-M-MIK-161-m01		
Module coordinator				Module offered by			
holder	of the (Chair of Econometrics		Faculty of Management and Economics			
ECTS Method of grading			Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
data is plainec Outline	adequ d in det	ately addressed. The n ail.	and concepts for the a naximum likelihood me				
2. Mod 3. Mod	els for els for	roeconometrics? qualitatively depender limited dependent vari Ident models					
2. Ronr 3. Verb	ne, W. ning, G. eek, M	H.: Econometric Analys : Microeconometrics, S .: Modern Econometric n, R., Boes, S.: Analysi	Springer Verlag.	r Verlag.			
Intende	ed lear	ning outcomes					
qualita	tively a		e of the maximum likeli variables. They can aut sults meaningfully.				
Course	S (type, r	number of weekly contact hour	s, language — if other than Ger	rman)			
Ü (2) +	Ü (2)						
		eessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
		mination (approx. 6o n	ninutes) or				
		(approx. 15 pages)	d /or English				
credita		ssessment: German ar bonus	IU/OFENGUSI				
Allocat	ion of j	olaces					
Additional information							
Workload							
150 h							
Teaching cycle							
Teaching cycle: after announcement							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	e appea	urs in					
		- 1				ı	
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 232 / 590	

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation
Econon	netrics	1			12-M-OE1-161-m01
Module	e coord	inator		Module offered by	
holder of the Chair of Econometrics			-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Description: This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the model's explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions 10. Dummy variables					
		ning outcomes			
The students acquire knowledge of the basics, concepts and methods used in the classical linear regression mo- del and understand the role of econometrics in science and data analysis. In particular, they learn how to analy- tically derive, calculate and interpret the coefficients, standard errors and p-values of a classic regression output of the multiple regression model. Furthermore, they are able to formally state and motivate the assumptions and properties of OLS and know how to deal with transformed and dummy variables. Additionally, students will be able to test multiple linear restrictions on the parameters and will be able to apply these tests to real economic, business and social science questions. The competences acquired in this course serve as a prerequisite for "Econometrics II", "Econometrics III", "Micro- econometrics" und "Financial Econometrics".					
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	Ü (2)				
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	olaces			
		· · · · · · · · · · · · · · · · · · ·			

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation	
Econometrics 2					12-M-OE2-161-m01
Module c	coordi	nator		Module offered by	
holder of	f the C	hair of Econometrics		Faculty of Managem	nent and Economics
ECTS N	Netho	d of grading	Only after succ. com	pl. of module(s)	
5 n	numer	ical grade			
Duration		Module level	Other prerequisites		
1 semest	er	graduate			
Contents	5				
Description: This module deals with the basics, concepts and methods of the generalized least squares (GLS) framework. Partly as a motivation for the GLS model and partly for its own right, different specification and data problems as well as violations of model assumptions of the OLS estimator (as introduced in "Ökonometrie I" ("Econometrics I")) are discussed. This includes multicollinearity, a test for structural breaks, heteroskedastiticy and autocorrela- tion. Linear algebra is used as formal aid. Syllabus: 1. Specification analysis 2. Multicollinearity 3. Heteroskedastiticy 4. Autocorrelated disruptive terms 5. Generalized least squares (GLS) Intended learning outcomes Students acquire essential knowledge of the fundamentals, methods and concepts for estimating the generali- zed linear regression model (GLS) and can apply and interpret it. They are sensitized for specification problems, data problems and violations of the assumptions of the classical linear model (OLS) in order to be able to reco- gnize, to assess and therefore adequately deal with these problems in theory and practice. This enables them					
plementa above-me	ation o entior	of empirical analyzes and	to answer selected he competences acq	(economic) scientific uired in this course	independently on adequate im- c issues if available data with the serve as a prerequisite for "Eco-
Courses ((type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + Ü	(2)				
Method of module is cr			ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching					
Teaching	cycle	: summer semester			

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

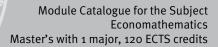
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Work an	nd Infor	mation			12-ITA-161-m01	
Module	coordi	nator		Module offered by		
Dean of mics	the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	d of grading	Only after succ. com	pl. of module(s)		
5	numer	ical grade		-		
Duration	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content						
		scusses relevant princip inisational and process s			ss information processing and its	
Intendeo	d learn	ing outcomes				
sified in vestmen	a certant, and	ain way by participating i a company's strategy, th	n this module. For de le students will get to	ecisions in regards to know all the releva	es can be interpreted and clas- b human resources planning, in- nt concepts and interdependen- ed "fourth" factor of production.	
Courses	່ (type, nເ	umber of weekly contact hours, la	anguage — if other than Ger	man)		
V (2)						
		essment (type, scope, language e for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) oral e approx.	examina 30 mir		h: approx. 15 to 20 m	ninutes; groups of 2:	approx. 20 minutes; groups of 3:	
Allocatio	on of p	laces				
Addition	nal info	ormation				
Workloa	ad					
150 h						
Teaching	g cycle	2				
Teaching	g cycle	: no courses offered				
		LPOI (examination regulations	for teaching-degree progra	mmes)		
Module	appea	rs in				
Master's	s degre	e (1 major) Economather	matics (2016)			
Master's	Master's degree (1 major) Business Information Systems (2016)					
	-	e (1 major) Business Ma				
	-	e (1 major) China Busine				
	-	e (1 major) International		-		
	-	e (1 major) China Langua		16)		
	-	e (1 major) Information S				
Master's degree (1 major) Information Systems (2022)						

Module title					Abbreviation		
Empirical HR Research with Stata					12-M-EPF-161-m01		
Module coordinator Mo				Module offered by	Module offered by		
holder o Organis		Chair for Human Resource	e Management and	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Conten	ts						
most in learn, w STATA.	nportar vith the	Empirische Personalforson nt estimation problems a help of basic problems be provided in class.	nd their application i	n the software packa	age STATA. In additio	on, students	
Intende	ed learı	ning outcomes					
		e seminar is to enable stu application in STATA wit				n program-	
Courses	5 (type, n	number of weekly contact hours, l	anguage — if other than Ge	rman)			
Ü (2)							
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, informati	on on whether	
Langua	ge of a	oprox. 10 pages) ssessment: German and ffered: Once a year as an					
Allocati	ion of p	olaces					
by lot a number	mong a r of pla	Should the number of ap all applicants irrespective ces will be allocated in tl s they become available.	e of their subjects. (2) Places on all course	es of the module wit	h a restricted	
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachir	ng cycl	e					
Teachin	ng cycle	e: each semester					
		LPO I (examination regulation	s for teaching-degree progra	immes)			
			· · · · · · · · · · · · · · · · · · ·				
Module	appea	ars in					
		ee (1 major) Economathe	matics (2016)				
Master's degree (1 major) Eusiness Management (2015)							
	-	ee (1 major) China Busing					
	-	ee (1 major) International		-			
	-	ee (1 major) China Langu ee (1 major) Managemen)10)			
	-	ee (1 major) International		18)			
	-	ee (1 major) China Busine	-				
		r Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • exa		page 239 / 590	
			ta record Master	(120 ECTS) Wirtschaftsmathe	matik - 2016		

Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

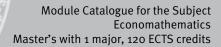




Banking and Finance

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation	
Portfolio Selection and Capital Market Theory					12-M-B1a-161-m01	
Module	e coordi	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
This mo	odule is	s be discontinued, no cou	irses are offered curr	ently or will be offere	ed in future.	
This is a	due to	one of the following reas	ons:			
• T	he lecti	urer who offered the cour	se is no longer empl	oved at the Universit	y of Wuerzburg.	
• T	he cont	tents are no longer taugh	t and were substitute	ed with comparable of	offers.	
For mor and Eco			e Office of the Dean	of Studies of the Fac	ulty of Business Management	
		ing outcomes				
			g outcomes descript	ion is available beca	use no courses are held for this	
module						
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	Ü (2)					
		e ssment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		nation (approx. 60 minut				
		ssessment: German and/	orEnglish			
Allocat	ion of p	Diaces				
 Additio	nalinf	ormation				
Auuitio						
Worklo	ad					
150 h						
Teachir	ng cyclo	9				
		e: no courses offered				
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)		
Module	e appea	irs in				
	-	ee (1 major) Economathe				
	-	ee (1 major) Business Info	•	016)		
	-	ee (1 major) Business Ma				
		ee (1 major) China Busine				
	-	ee (1 major) International		-		
musiel	Master's degree (1 major) China Language and Economy (2016)					

Module title					Abbreviation	
Agency Theory					12-M-B1b-161-m01	
Module	e coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		be discontinued, no cou		ently or will be offere	ed in future.	
	aue to	one of the following reas	5115:			
• T	he cont re infor		t and were substitute	ed with comparable of		
Intende	ed learr	ning outcomes				
	the lac		g outcomes descript	ion is available beca	use no courses are held for this	
Course	S (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)		
V (2) +	Ü (2)					
		e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		nation (approx. 60 minut ssessment: German and/				
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	9				
Teachir	ng cycle	e: no courses offered				
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	rs in				
Master	's degre	ee (1 major) Economathe	matics (2016)			
	-	ee (1 major) Business Info	-	016)		
		ee (1 major) Business Ma				
	-	ee (1 major) China Busine ee (1 major) International				
	-	ee (1 major) China Langua	-	-		
i		0	- / (*			



Compulsory Core Electives

(10 ECTS credits)

Module title					Abbreviation	
Option	Pricing	; Theory			12-M-B2-161-m01	
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
This mo	odule is	s be discontinued, no cou	irses are offered curr	ently or will be offere	ed in future.	
This is o	due to	one of the following reas	ons:			
		urer who offered the cour tents are no longer taugh				
				•	culty of Business Management	
and Eco	onomic	S.				
Intende	ed learr	ning outcomes				
Due to t module		k of relevance, no learnin	g outcomes descript	ion is available beca	use no courses are held for this	
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + l	Ü (2)					
		e ssment (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		nation (approx. 120 minu				
		ssessment: German and/	or English			
Allocati	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
300 h						
Teachir						
		e: no courses offered				
Referre		LPO I (examination regulations	for teaching-degree progra	mmes)		
Module	annea	irs in				
		ee (1 major) Economather	matics (2016)			
	•	ee (1 major) Business Info		016)		
	-	ee (1 major) Business Ma				
	-	ee (1 major) China Busine				
	-	ee (1 major) International				
master	Master's degree (1 major) China Language and Economy (2016)					

Module title					Abbreviation	
Financial Institutions and Financial Regulation					12-M-B3-161-m01	
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
This mo	odule is	s be discontinued, no cou	urses are offered curr	ently or will be offere	ed in future.	
This is o	due to	one of the following reas	ons:			
• T	he lecti	urer who offered the cour	se is no longer empl	oved at the Universit	v of Wuerzburg.	
• T	he con	tents are no longer taugh	t and were substitute	ed with comparable of	offers.	
For mor and Eco			ne Office of the Dean	of Studies of the Fac	ulty of Business Management	
		ing outcomes				
			g outcomes descript	ion is available beca	use no courses are held for this	
module						
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
V (2) +	Ü (2)					
		essment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		nation (approx. 120 minu				
		ssessment: German and/	or English			
Allocat		Diaces				
 Additio	nalinf	ormation				
Auditio						
Worklo	ad					
300 h						
Teachir	ng cycl	9				
		e: after announcement				
		LPOI (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	irs in				
Master'	's degre	ee (1 major) Economather	matics (2016)			
	-	ee (1 major) Business Info	•	016)		
	-	ee (1 major) Business Ma				
		ee (1 major) China Busine				
	-	ee (1 major) International	•	-		
mastel	Master's degree (1 major) China Language and Economy (2016)					



Finance, Accounting and Taxation

(20 ECTS credits)



Compulsory Core Electives

(20 ECTS credits)

Module title					Abbreviation		
Advanced Financial Accounting (German GAAP, IFRS)					12-M-ER-161-m01		
Module	e coord	inator		Module offered by			
Dean of mics	f the Fa	culty of Business Man	agement and Econo-	Faculty of Managen	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
groups, gly com the Eur to prep pret con dents w ticular, dards. S spondin identify are cov will imp Intende Studen porting solidate	Large and mostly multinational companies are key players in our globalized economy. A wide variety of interest groups, such as investors, need access to reliable information about the economic activities of these increasingly complex companies to make the right decisions. To contribute to a better functioning of capital markets in the European Union, publicly traded companies have to apply a single set of international accounting standards to prepare their consolidated financial statements. This module covers the necessary steps to prepare and interpret consolidated financial statements under IFRS (International Financial Reporting Standards). It provides students with a systematic approach and interpretation of group accounting according to international rules. In particular, the module coveys the basic principles of group accounting and an in-depth knowledge of relevant standards. Students get to know different types of company mergers, acquisitions, and investments and the corresponding accounting methods. They will learn about the relevance of consolidated financial statements, how to identify groups and understand the consolidation process. In addition, various recent topics of group accounting are covered, e. g., positive and negative goodwill, non-controlling interests, intra-group transactions, and good-will impairment. Intended learning outcomes Students understand the key concepts and elements of group accounting under IFRS (International Financial Reporting Standards). They also have an in-depth knowledge of the steps necessary to prepare and interpret consolidated financial statements following international accounting rules. In particular, students can recognize the need for consolidated financial statements, solve relevant consolidation problems, and critically evaluate consolidated financial statements, solve relevant consolidation problems, and critically evaluate consolidated financial statements following international accounting rules. In particular, students can recognize the need for conso						
Course	S (type, n	umber of weekly contact hour	s, language — if other than Gei	rman)			
Ü (2) +	V (2)						
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
	ge of a	nation (approx. 60 to 1 ssessment: German ar bonus					
Allocat	ion of p	olaces					
 Additio	nal info	ormation					
Worklo	ad						
150 h							
Teachir	ng cvcl	e					
		e: no courses offered					
			ons for teaching-degree progra	mmes)			
Module	e appea	in					
Master's wi	th 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 250 / 590	

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Advanced Auditing 12-M-WPF-161-m01						
Module coordinator				Module offered by		
Dean of mics	f the Fa	culty of Business Mana	gement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
1 semes		graduate				
Conten		glauuale				
This mo discuss apply e adapt to	odule c ses curi xisting o curre	overs advanced accoun rent developments in IFI knowledge to advanced nt developments in the	RS accounting and sys d accounting problems	stematically classifies s and to develop pos	s the related issues.	The aim is to
	-	ning outcomes				
	-	a deep understanding (5). They also have the in		-	-	
Courses	S (type, n	umber of weekly contact hours	, language — if other than Ge	rman)		
V (2) + l	Ü (2)					
		s essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether
	ge of a	nation (approx. 60 to 12 ssessment: German and bonus				
Allocati	ion of p	olaces				
Additio	nal inf	ormation	_			
Worklo	ad					
	uu					
150 h						
Teachir						
		e: no courses offered				
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	ammes)		
Module	appea	rs in				
	-	ee (1 major) Economath				
		ee (1 major) Business M	0 0			
Master's degree (1 major) China Business and Economics (2016)						
Master's degree (1 major) International Economic Policy (2015)						
	-	ee (1 major) China Lang		016)		
	-	ee (1 major) Managemer				
	-	ee (1 major) China Busir		-		
	-	ee (1 major) China Lang		-		
	-	ee (1 major) China Busir				
waster'	saegre	ee (1 major) China Langi	uage and Economy (20)21)		
Master's wi	th 1 major	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 252 / 590



Master's degree (1 major) Economathematics (2021) exchange program Business Management and Economics (2022)

Module title				Abbreviation	
Portfoli	io Seleo	ction and Capital Market	Theory		12-M-B1a-161-m01
Module	e coordi	inator		Module offered by	
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
This mo	odule is	s be discontinued, no cou	irses are offered curr	ently or will be offere	ed in future.
This is a	due to	one of the following reas	ons:		
• T	he lecti	urer who offered the cour	se is no longer empl	oved at the Universit	y of Wuerzburg.
• T	he cont	tents are no longer taugh	t and were substitute	ed with comparable of	offers.
For mor and Eco			e Office of the Dean	of Studies of the Fac	ulty of Business Management
		ing outcomes			
			g outcomes descript	ion is available beca	use no courses are held for this
module					
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	Ü (2)				
		e ssment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		nation (approx. 60 minut			
		ssessment: German and/	or English		
Allocat	ion of p	Diaces			
 Additio	nalinf	ormation			
Additio					
Worklo	ad				
150 h					
Teachir	ng cyclo	9			
		e: no courses offered			
		LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	irs in			
Master	's degre	ee (1 major) Economathe			
	-	ee (1 major) Business Info	•	016)	
	-	ee (1 major) Business Ma			
		ee (1 major) China Busine			
	-	ee (1 major) International		-	
mastel	Master's degree (1 major) China Language and Economy (2016)				

Module	title				Abbreviation
Agency	Theory	y			12-M-B1b-161-m01
Module	coord	inator		Module offered by	
Dean of mics	f the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
This mo	odule is	s be discontinued, no cou	irses are offered curr	ently or will be offere	ed in future.
This is o	due to	one of the following reas	ons:		
• T	he lecti	urer who offered the cour	se is no longer empl	oved at the Universit	v of Wuerzburg.
• T	he cont	tents are no longer taugh	t and were substitute	ed with comparable of	offers.
For mor and Eco			ne Office of the Dean	of Studies of the Fac	ulty of Business Management
		ning outcomes			
			g outcomes descript	ion is available beca	use no courses are held for this
module					
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	Ü (2)				
		e essment (type, scope, langua ₎ le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		nation (approx. 60 minut			
		ssessment: German and/	or English		
Allocat	ion of p	olaces			
		4 !			
Additio	nalinf	ormation			
 Worklo					
150 h	au				
Teachir	ng cycl	2			
		e: no courses offered			
		LPO I (examination regulations	s for teaching-degree progra	mmes)	
				····· ,	
Module	appea	rs in			
		ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Info	•	016)	
	-	ee (1 major) Business Ma			
		ee (1 major) China Busine			
	-	ee (1 major) International		-	
master	Master's degree (1 major) China Language and Economy (2016)				

Module title Abbreviation							
Econom	nics of	Tax Planning			12-M-SP-161-m01		
Module	coord	inator		Module offered by			
holder o Taxatio		Chair of Business Manag	ement and Business	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)			
5	numei	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Conten	ts						
dels for ees. The	[,] invest erefore	eals with tax effects on f ment decisions, financi , the interaction of corp n English is available or	ng decisions, firm valu orate and personal inc	ation, dividend poli	cy and remuneratior		
Intende	d learr	ning outcomes					
(i) comb nance; (ii) anal luation	oine the yze the of inve	ables students to eir knowledge of tax law e effect of taxes on fund stment, financial assets liscuss research and po	amental economic de s, forms of remuneration	cisions, e.g. investm on for employees inc	ent and financing de	ecisions, eva-	
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ger	man)			
V (2) + ĺ	Ü (2)						
		e essment (type, scope, langu le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	on on whether	
b) term c) oral e	paper examin ge of a	nination (approx. 60 mi (approx. 15 pages) or ation of one candidate e ssessment: German and bonus	each (approx. 20 minu	ites)			
Allocati	ion of p	olaces					
Additio	nal info	ormation					
Worklo	ad						
150 h							
Teachin	ig cycl	9	_				
Teachin	ig cycle	e: winter semester					
Referre	d to in	LPOI (examination regulation	ns for teaching-degree progra	mmes)			
Module	appea	rs in					
Master' Master' Master' Master' Master'	s degre s degre s degre s degre s degre s degre	ee (1 major) Economathe ee (1 major) Business In ee (1 major) Business Ma ee (1 major) China Busin ee (1 major) Internationa ee (1 major) China Langu	formation Systems (20 anagement (2015) ess and Economics (2 Il Economic Policy (20 lage and Economy (20	1016) 15) 116)	m rag da		
waster's wil	un 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	•	page 256 / 590	

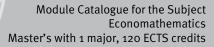
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)
exchange program business management and Economics (2022)

Modul	e title				Abbreviation	
Coordination, Budgeting and Incentives in Companies 12-M-KOBO-161-mo1					12-M-KOBO-161-m01	
Modul	e coord	inator		Module offered by		
	of the o	Chair of Business Mana ng	agement, Controlling	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Durati	on	Module level	Other prerequisites	;		
1 seme	ester	graduate				
Conte	nts					
course as info	e first di ormatior	scusses the role of acc nal analyses. Afterward	ounting in the context	of decision-making an astruments of behavi	ecentralized enterprises. The and behavioral controlling as well ioral controlling (budgeting, va- and practice.	
Intend	ed lear	ning outcomes				
quiren	nents or		behavioral control are		enterprises. Knowledge about re- betences for deployment, struc-	
Course	es (type, r	number of weekly contact hour	rs, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, information on whether	
		nation (approx. 60 min ssessment: German ar				
Alloca	tion of _l	olaces				
Additi	onal inf	ormation				
Workle	oad					
150 h						
Teachi	ing cycl	e				
Teachi	ng cycl	e: winter semester				
Referr	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Modul	e appea	ars in				
Maste Maste	Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016)					
Maste	r's degr	ee (1 major) Internatior	nal Economic Policy (20 guage and Economy (20	015)		

Modul	e title				Abbreviation
Project Management and Control					12-M-PROM-161-m01
Modul	e coord	linator		Module offered by	L
	of the	Chair of Business Manage	ement, Controlling	Faculty of Managen	nent and Economics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Durati		Module level	Other prerequisites	;	
1 seme	ester	graduate			
Conte	nts		.		
ment a metho	are cons ds and	sidered. It covers characte	eristic features and s id management of pr	tructures of projects, ojects in various pro	pproaches to project manage- , their possible success factors, ject phases. The theoretical basis
Intend	led lear	ning outcomes			
fields thin th	of appli ie confi	cation and limits of comr	nonly used instrume	nts and methods of p	and weaknesses and therewith practitioners. Competences wi- as well as skills within the practi-
Course	es (type,	number of weekly contact hours, l	anguage — if other than Ge	rman)	
V (2) +	Ü (2)				
		s essment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
		nation (approx. 60 minut issessment: German and,			
Alloca	tion of	places			
Additi	onal inf	ormation			
Workl	oad				
150 h					
-	ing cycl	e			
		e: winter semester			
		LPO I (examination regulation	s for teaching-degree progra	ammes)	
Modul	e appe	ars in			
Maste		ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Economathe ee (1 major) Business Ma			
Maste	r's degr	ee (1 major) Economathe ee (1 major) Business Ma ee (1 major) China Busine	nagement (2015)	2016)	
Maste Maste	r's degr r's degr	ee (1 major) Business Ma	nagement (2015) ess and Economics (2		

Module	title				Abbreviation		
Selecte	Selected Topics in Analytical Tax Research				12-M-TBS-161-m01		
Module	e coordi	nator		Module offered by			
	of the C		agement and Business	Faculty of Managen	nent and Economics	5	
ECTS	Metho	d of grading	Only after succ. con	pl. of module(s)			
5		ical grade					
-	Duration Module level Other prerequisites						
1 semester graduate							
Conten		0	I				
• c • a • c The hol	ourses ddition ourses ders of	taken at other German al courses offered on a offered by new Chairs the respective Chairs	ansferring credits from or non-German univers a short-term basis that are yet to be includ will ensure that the cou	ded in the FSB (subj		ons)	
Intende	ed learn	ing outcomes					
As a res	sult of a	ccrediting multiple kin	nds of modules, a desc	ription of acquired s	kills cannot be give	n.	
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ger	man)			
V (2) +	Ü (2)						
a) writt b) term c) oral o	en exan paper examina ge of as	ssessment: German ar	e each (approx. 20 minu	ites)			
Allocat	ion of p	laces					
Additio	nal info	ormation					
Worklo	ad						
150 h							
Teachi	ng cycle	9					
Teachir	ng cycle	: no courses offered					
Referre	d to in	LPOI (examination regulati	ons for teaching-degree progra	mmes)			
Module	e appea	rs in					
	-	e (1 major) Economatl					
		e (1 major) Business N					
	-		iness and Economics (2				
	-		nal Economic Policy (20	-			
	-	e (1 major) China Lang e (1 major) Managemo	guage and Economy (20 ant (2018))10 <i>)</i>			
	-		iness and Economics (2	010)			
	-		guage and Economy (20	-			
	-		iness and Economics (2	•			
Meeters	4h 4	Free mathematics (184111444 1		wa waa da		
WASTOR'S WI	ui i major	Economathematics (2016)	JMU Wurzburg •	generated 19-Apr-2025 • exa	100 TPV (12)-	page 260 / 590	



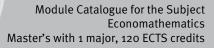


Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Management (2022) Master's degree (1 major) Management (2024)

Selecte Module	ed Topi				Abbreviation		
Module	•	cs in Financial Accou	nting and Auditing		12-M-ATRW-161-m01		
	e coord	inator		Module offered by			
Dean o mics	Dean of the Faculty of Business Management and Econo- mics			Faculty of Manager	nent and Economics		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites	6			
1 seme	ster	graduate					
Conten	Its						
• c • a • c	ourses dditior ourses	taken at other Germa nal courses offered or offered by new Chair	transferring credits from an or non-German univer a short-term basis s that are yet to be inclu s will ensure that the co	sities ded in the FSB (subj			
Intend	ed lear	ning outcomes					
	-		kinds of modules, a desc	ription of acquired s	kills cannot be given.		
			urs, language — if other than Ge	• •	-		
S (2)							
module is	s creditab	le for bonus)		examination offered — if no	ot every semester, information on whether		
	age of a	nation (approx. 60 to ssessment: German a bonus					
Allocat	ion of p	olaces					
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Teachi	ng cycle	e: after announcemer	nt				
Referre	ed to in	LPOI (examination regula	ations for teaching-degree progra	ammes)			
Module	e appea	urs in					
Master Master	's degr 's degr 's degr	ee (1 major) Internatio		015)			

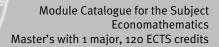


T A	e title				Abbreviation	
Tax Accounting					12-M-STB-161-m01	
Module	e coord	inator		Module offered by		
	of the (Chair of Business Mana	gement and Business	-	nent and Economics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate	 			
Conten		3.44440				
steuerg	gesetz,	ntroduces the various n EStG). It discusses the es of income calculation	main reporting and val	-		•
Intende	ed lear	ning outcomes				
		e in-depth knowledge o ax accounting in particu				
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		Sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
credita Allocat						
Additio	onal inf					
	-	ormation				
		ormation				
 Worklo	ad	ormation				
 Worklo 150 h	ad	ormation				
150 h Teachi i	ng cycl					
150 h Teachi i Teachii	ng cycl ng cycle	e	ons for teaching-degree progra	ummes)		
150 h Teachi Teachin	ng cycl ng cycle	e e: summer semester	ons for teaching-degree progra	ımmes)		
150 h Teachi Teachin	ng cycl ng cycle ed to in	e e: summer semester LPO I (examination regulatio	ons for teaching-degree progra	ummes)		
150 h Teachin Teachin Referre Module	ng cycle ng cycle ed to in e appea	e e: summer semester LPO I (examination regulatio		ımmes)		
150 h Teachin Teachin Referre Module Master	ng cycle ng cycle ed to in e appea	e e: summer semester LPOI (examination regulation ars in	ematics (2016)			
150 h Teachin Referre Module Master Master	ng cycle ng cycle ed to in e appea "s degre	e e: summer semester LPO I (examination regulation Irs in ee (1 major) Economath	ematics (2016) Iformation Systems (20			
150 h Teachin Referre Module Master Master Master	ng cycle ng cycle ed to in e appea 's degre 's degre 's degre	e e: summer semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business Ir	ematics (2016) formation Systems (20 lanagement (2015)	016)		
150 h Teachin Teachin Referre Module Master Master Master Master Master	ng cycle ed to in e appea d's degre d's degre d's degre d's degre	e e: summer semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business Ir ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internation	ematics (2016) nformation Systems (20 Nanagement (2015) ness and Economics (2 al Economic Policy (20	016) 2016) 25)		
150 h Teachin Teachin Referre Module Master Master Master Master Master Master	ng cycle ng cycle ed to in e appea d's degre d's degre d's degre d's degre d's degre d's degre	e E: Summer semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business Ir ee (1 major) Business N ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang	ematics (2016) Iformation Systems (20 Ianagement (2015) ness and Economics (2 al Economic Policy (20 uage and Economy (20	016) 2016) 25)		
150 h Teachin Referre Module Master Master Master Master Master Master Master	ng cycle ed to in e appea 's degre 's degre 's degre 's degre 's degre 's degre	e E: Summer semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business Ir ee (1 major) Business N ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang ee (1 major) Manageme	ematics (2016) nformation Systems (20 lanagement (2015) ness and Economics (2 al Economic Policy (20 uage and Economy (20 nt (2018)	016) 2016) 15) 016)		
150 h Teachin Teachin Referre Master Master Master Master Master Master Master Master Master	ng cycle ed to in e appea 's degre 's degre 's degre 's degre 's degre 's degre 's degre 's degre	e e: summer semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business In ee (1 major) Business N ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang ee (1 major) Manageme ee (1 major) China Busi	ematics (2016) Iformation Systems (20 Ianagement (2015) ness and Economics (2 al Economic Policy (20 uage and Economy (20 nt (2018) ness and Economics (2	016) 2016) 15) 016) 2019)		
150 h Teachin Teachin Referre Master Master Master Master Master Master Master Master Master	ng cycle ed to in e appea d's degre d's degre d's degre d's degre d's degre d's degre d's degre d's degre d's degre	e E: Summer semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business Ir ee (1 major) Business N ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang ee (1 major) Manageme	ematics (2016) nformation Systems (20 Nanagement (2015) ness and Economics (2 al Economic Policy (20 uage and Economy (20 nt (2018) ness and Economics (2 uage and Economy (20	016) 2016) 15) 016) 2019)		



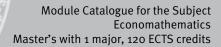
Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Information Systems (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)





Public Finance (20 ECTS credits)





Compulsory (10 ECTS credits)



Module title Abbreviation						
Policy	Policy of Taxation 12-M-F1-161-m01					
Module	e coord	inator		Module offered by		
holder	of the (Chair of Public Finance	e Faculty of Management and Economics			
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster	graduate				
Conten	Contents					
holds i	module n Germ ecture r		a basic understanding ourse will include simp r.			
1. Fisca 2. Meci 3. Tax i 4. Incol 5. Taxa	al harm hanics nciden me tax tion of	onisation system in Ge and problems of the V ce analysis code married couples and fa d household decisions	AT system			
Intende	ed lear	ning outcomes				
they ar cific tax	e divid xes usi	ed between the Federa	icy" students know the tion and the federal pro . Finally they can discu dels.	ovinces. They are abl	e to explain the inci	dence of spe-
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		eessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) term	i paper	mination (approx. 60 n (approx. 15 pages) ssessment: German ar				
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h	-					
Teachi	ng cycl	e				
Teachi	ng cycle	e: summer semester				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Module						
Master	's degr	ee (1 major) Economatl ee (1 major) Business I ee (1 major) Business <i>I</i>	nformation Systems (2	016)		
	-	r Economathematics (2016)	JMU Würzburg	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 267 / 590



Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	e title				Abbreviation		
Social	Insurar	nce and the Welfare Sta	ate		12-M-F3-161-m01		
Module	e coord	inator		Module offered by			
holder	ofthe	Chair of Public Finance	E Faculty of Management and Economics				
ECTS	Meth	od of grading	Only after succ. compl. of module(s)				
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
This mo and pro retirem Readin Conten 1. Publi 2. The i 3. Socia 4. The o	Description: This module discusses the economic justification for implementing social security systems in a market economy and provides students with deeper insights into this topic with the help of specific issues of public health and retirement policy. Reading: lecture notes provided by Chair. Contents: 1. Public intervention in insurance markets 2. The insurance function of social security 3. Social security and social morale 4. The optimal health insurance contract						
		need a public pension pay-as-you-go financin					
Intende	ed lear	ning outcomes					
dation cuss th	of the s le finan	social security system i	e der Sozialversicherun n a market economy. U ture of the public healt 15.	sing simple partial e	quilibrium models t	hey can dis-	
Course	S (type, r	number of weekly contact hour	s, language — if other than Ger	man)			
V (2) +							
		s essment (type, scope, lang ole for bonus)	guage — if other than German, o	examination offered — if no	t every semester, informati	on on whether	
b) term	paper	mination (approx. 60 m (approx. 15 pages) Issessment: German ar					
Allocat	ion of _l	places					
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Teachir	ng cycl	e: winter semester					
Referre	ed to in	LPOI (examination regulati	ons for teaching-degree progra	mmes)			
	_						
Module	e appea	ars in					
	-	ee (1 major) Economatł ee (1 major) Business I	nematics (2016) nformation Systems (20	016)			
Master's wi	ith 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 269 / 590	

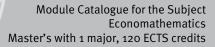
Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Compulsory Core Electives

(10 ECTS credits)

Module title Abbreviation						
Public	Debt				12-M-F2-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of Public Finance Faculty of Management and Economics						
ECTS	Methe	od of grading	Only after succ. compl. of module(s)			
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
and sci	odule p ientific	rovides an introductior debate. Ire notes provided by C	·	es of public debt that	are in the focus of t	he public
2. Grow 3. Inter 4. Publ 5. Neut 6. Polit	sureme wth effe genera ic debt rality o ical eco	abus: ent of public debt ects of public debt tional effects of public in open economies f public debt onomy of public debt ouvereign debtors	debt			
-		ning outcomes				
measu quence	rement es using n neutra	ing the course "Nationa concepts and problem g simple equilibrium m ality and know the polit s.	s of public debt. They odels of closed and op	can discuss the grow en economies. They	th and distributiona can evaluate the rele	ll conse- evance of Ri-
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +						
		s essment (type, scope, lang ole for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
b) term	paper	mination (approx. 60 m (approx. 15 pages) ssessment: German ar				
Allocat	ion of _l	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
		e: no courses offered				
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)		
Module						
Master	's degr	ee (1 major) Economatl	nematics (2016)			
Master's w	ith 1 majo	r Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 272 / 590



Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title					Abbreviation	
Optimal Tax Theory 12-M-F4-161-m01						
Modul	Module coordinator			Module offered by		
holder of the Chair of Public Finance					nent and Economics	
ECTS						
5	nume	rical grade		-		
Duration Module level Other prerequisites						
1 semester graduate						
Conter	Contents					
The co for a ta pital. Examin studen Readin Outline 1. Opti 3. Opti 4. Inter Intend After co	Description: The course will discuss the design of an optimal tax system. First, students will learn what criteria have to be me for a tax system to be optimal. Lectures will introduce key rules for taxing commodities as well as income and ca pital. Examining specific taxation issues such as eco-tax, family taxation and the taxation of international enterprises, students will then gain more in-depth insights into these rules. Reading: Lecture notes will be provided. Outline of syllabus: 1. Optimal commodity taxation 2. Optimal income taxation 3. Optimal taxation of families 4. International tax competition Intended learning outcomes After completing this module students have a basic understanding of what is meant with "optimal taxation".					come and ca- enterprises, axation".
to prep Course	oare an es (type, r	d present short papers	o specific normative qu , where they discuss sp rs, language — if other than Ge	ecific normative poli		
V (2) +						
		sessment (type, scope, lan le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) term	n paper	mination (approx. 60 n (approx. 15 pages) ssessment: German a				
Allocat	tion of _l	places				
Additio	onal inf	ormation				
Worklo	bad					
150 h						
Teaching cycle						
Teaching cycle: winter semester						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears inMaster's degree (1 major) Economathematics (2016)Master's degree (1 major) Business Management (2015)Master's degree (1 major) China Business and Economics (2016)						
Master's w	vith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 274 / 590



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Princip	Principles of European Regulation 12-M-PRE-161-m01					
Module	e coordi	inator		Module offered by		
holder of the Chair of Industrial Economics		mics	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)		
5	numer	rical grade				
Duration Module level Other prerequisites						
1 semester graduate						
Conten	Contents					
This mo ons) in Outline 1. Over 2. Over 3. Over 4. Polit 5. Natu 6. Price 7. Proc 8. Netw Intende (i) desc (ii) ider (iii) ass	Description: This module examines the regulation of traditional network industries (railroads, electricity, telecommunicati- ons) in Europe: theory and practice Outline of syllabus: 1. Overview of the regulation of railroads in Gemany and Europe in practice 2. Overview of the regulation of the electricity industry in Gemany and Europe in practice 3. Overview of the regulation of the telecommunications industry in Gemany and Europe in practice 4. Political economy of regulation 5. Natural monopoly and price regulation under ideal conditions 6. Price regulation under realistic circumstances 7. Procurement: advantages and disadvantages 8. Network access regulation Intended learning outcomes After succesfully completing this module, students wiil be able to (i) describe central problems in regulation of the traditional network industries; (ii) identify and apply the appropriate results from Industrial Organization;					om the indu-
		tion theory. umber of weekly contact hours,	language — if other than Ger	rman)		
V (2)						
		e ssment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered creditable for bonus						
Allocat	ion of p	olaces				
Additional information						
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referre	d to in	LPO I (examination regulation	is for teaching-degree progra	immes)		
Master's w	ith 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 276 / 590

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation
European Public Finance					12-M-EFP-161-m01
Module coordinator				Module offered by	
holder of the Chair of Public Finance				Faculty of Managem	pent and Economics
ECTS Method of grading Only after succ. com					
5		rical grade			
Duratio	1	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
The course aims at introducing the main public finance issues in the European Union. Students will learn how the revenues of the Union are generated and how they are spent. We will discuss the motivation and implications of the Brexit decision and various coordination problems with respect to public debt, taxation and environmental policy. Economic policy is discussed with simple models, which highlight the central problems.					s the motivation and implicati- blic debt, taxation and environ-
Course	conten	ts:			
1. The E	uropea	an Union: History and Ins	titutions		
2. The E	Budget	of the European Union			
3. Econ	omic A	nalysis of the Brexit Proc	ess		
4. Sove	reign D	ebt, Financial Crisis and	Fiscal Integration in t	he EMU	
5. Tax C	ompet	ition or Tax Coordination	in Europe?		
6. Euroj	pean C	limate Policy: Emission T	rading and Green Dea	al	
Intende	ed learr	ning outcomes			
	condu	ct in the EU. They are abl			e policy issues, institutions and o discuss and analyze more spe-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (2) + V	V (2)				
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term	paper	nination (approx. 60 min (approx. 15 pages) ssessment: German and/			
Allocati	-				
20 places. There are no restrictions with regard to available places for students of the Master's degree program- mes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Infor- mation Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.					
Additio	nal info	ormation			
Workload					
150 h					
Teachin					
Teaching cycle: summer semester					

Master's with 1 major Economathematics (2016)

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Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) Media Communication (2016)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Media Communication (2018)
Master's degree (1 major) Media Communication (2019)

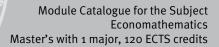
Module title				Abbreviation		
Computational Economics - Advanced Level 12-M-NGM-161-m01					L	
Module coordinator			Module offered by			
holder of the Chair of Public Finance		Faculty of Managen	nent and Economics			
ECTS Method of grading Only after succ. com		npl. of module(s)				
5 numerical grade						
Duration Module level Other prerequisites						
1 semester graduate						
Conten	its					
This co ty etc.) field ar tribute kets ar	Description: This course will mostly be concerned with the analysis of public policy (in areas such as taxation, social securi- ty etc.). Providing students with state-of-the-art techniques for quantitative macroeconomic research in this very field and familiarising them with the relevant literature, this course will teach students how such policies redis- tribute between different generations and also within generations, how they may improve risk sharing when mar- kets are incomplete and how they can trigger distortions and therefore hurt the aggregate economy.					
2. Solu	rammin tion te	abus: ng with FORTRAN and a chniques for dynamic p ysis with stochastic gro	rogramming problems			
Readin Lecture	-	will be provided.				
Intend	ed lear	ning outcomes				
After completing the course "Advanced Computational Economics" students will be able to (i) edit and solve stochastic economic problems using advanced numerical techniques; (ii) implement small scale economic models on the computer; (iii) simulate tax and social security policy reforms and interpret the quantitative results in economic term.						
Course	S (type, 1	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
		mination (approx. 60 n	ninutes) or			
		(approx. 15 pages)	d/or English			
Allocat	-	ssessment: German ar				
Allocal		places				
Additio	nalinf	ormation				
Auuitto						
Worklo	bad					
Workload						
150 h						
Teaching cycle						
Teaching cycle: winter semester Peferred to in LPO L (avamination consultions for teaching degree programmed)						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
 Module appears in						
		ee (1 major) Economatl	nematics (2016)			
	-	r Economathematics (2016)	JMU Würzburg	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 280 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Theory of Social Policy				12-M-TSP-161-m01		
Module coordinator			Module offered by			
holder of the Chair of Labour Economics		ics	Faculty of Managen	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5 numerical grade						
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
gns in t the epis shown which la science	This course offers an introduction to the fundamentals of causal inference and to widely used research desi- gns in the social sciences. In the first part a framework for understanding causality is introduced. Specifically, the epistemological differences between association, intervention and counterfactuals are explained. Then it is shown why experiments are paramount in generating causal knowledge and which assumptions are needed for which level of the causal hierarchy. Finally, we will discuss two widely used approaches to causality in the social sciences, i.e. potential outcomes and directed acyclic graphs.					
tal varia to answ ment oi	ables, a ver imp r the ef	art is devoted to the res and regression discont ortant questions in lab fect of children on fem- ons each research desi	nuity. The emphasis is our economics such as ale labour supply and v	how these research the effects of a min vages.	designs are for exar imum wage increase	nple applied e on employ-
lecture. stion. F	There urther,	fore the emphasis is to the research designs a s to other questions ar	teach students <i>what</i> o re discussed such that	ne needs to estimate	e in order to answer	a given que-
Intende	ed learı	ning outcomes				
rence, a	as well	he course, students sh as read, interpret, and ation for advanced stat	assess the credibility o	of scientific publicati		
Course	S (type, n	umber of weekly contact hour	, language — if other than Ger	rman)		
V (2) +	Ü (2)					
		essment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	t every semester, informat	ion on whether
b) term	paper	nination (approx. 60 m (approx. 15 pages) ssessment: German an				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	Module appears in					
		ee (1 major) Economath Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 282 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

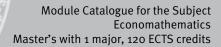




Industrial Economics

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation	
Theory of Industrial Organization 1					12-M-Tl1-161-m01	
Module coordinator				Module offered by		
holder	holder of the Chair of Industrial Economics		Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semester graduate						
Conten	ts					
 N D 2. Oligo S C E 3. Dyna S R 4. Strat E S 5. Beha 	 Theory of industrial organisation: Monopoly pricing Nonlinear pricing and mechanism design Dynamic pricing: experience goods, durable goods Oligopoly pricing Static price and quantity competition in homogeneous and differentiated goods markets Comparative statics Equilibrium market structure Dynamic competition in oligopoly markets Subgame perfect equilibrium and models of dynamic competition Repeated games and collusion Strategic behaviour by incumbent firms Entry deterrence and predation Signalling and reputation Reference Dependent Preferences and Framing Effects 					
		l be taught in English.				
·		ning outcomes				
Students which complete this class will acquire a working knowledge of advanced theoretical models of compe- tition in oligopoly markets as well as sophisticated pricing techniques in monopoly markets. They will learn the conditions under which the predictions of these models are valid. They will become familiar with applications of advanced game theoretic tools, such as dynamic models of competition, for studying interactions between firms in markets. By means of comprehensive exercises, they will apply the methods they learn in class to practical- ly relevant problems. They will be in a position to read academic papers on related topics, assess the strengths and weaknesses of an approach, summarize and comment on these papers and suggest possible extensions.						
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	Ü (2)					
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	ion of p	olaces				
Additio	nal info	ormation				

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Europe	an Com	petition Policy			12-M-WPE-161-m01	
Module	coord	inator		Module offered by		
holder of the Chair of Industrial Economics			nics		nent and Economics	
ECTS		od of grading	Only after succ. con	· · · · · · · · · · · · · · · · · · ·		
5		rical grade		• • • •		
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
2. Mark • Q • S • H 3. Horiz 4. Horiz • E • C 5. Vertio • E • "' 6. Abus • C	 3. Horizontal agreements and collusion: repeated games and factors affecting likelihood of collusion 4. Horizontal mergers and collusion Economic theory Efficiency effects Coordinated effects 5. Vertical relations and contracts Economic analysis of contracts "More economic approach" 6. Abuse of dominant position Classification of abusive conduct 					
Intende	ed learn	ning outcomes				
After completion of the module students can use the advanced concepts introduced in the lecture of competiti- on policy, including the legal framework, the trace models and methods for the study of competition policy issu- es, as well as understand the approach of European competition policy in high profile cases. When they are con- fronted with practical problems, they can refer to these cases, and the same logic to practical examples apply by draining the relevant economic theories that identify variables to be measured and methodologies for assessing, and based on that adequate conclusions for appropriate cases. They will sufficiently understand the subject in order to open up that build upon literature in journals and being able to think critically.						
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2)						
			ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
b) term Langua	a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	olaces				
20 plac	es The	are are no restrictions wit	h regard to available	nlaces for students	of the Master's degree program-	

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Master's with 1 major Economathematics (2016)

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) Media Communication (2016)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Media Communication (2018)
Master's degree (1 major) Media Communication (2019)

Master's with 1 major Economathematics (2016)



Compulsory Core Electives

(10 ECTS credits)

Module title				Abbreviation		
Advanc	ed Mic	roeconomics			12-M-AM-161-m01	
Module	e coord	inator		Module offered by		
holder formati		Chair for Economics, Cont nomics	tract Theory and In-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
lysis an al decis riskless and lim Through and tall (e.g., di it will a introdu ant tha The exp • N	In a nutshell, microeconomic theory considers the behavior of individual economic agents and builds from this foundation to a theory of aggregate economic outcomes, which then can be applied for conducting welfare ana- lysis and giving policy advice. This lecture addresses the core building block of this thought complex: individu- al decision making and behavior. Specifically, students will come to understand in detail the standard models of riskless consumer choice, choice under risk and intertemporal choice and learn about the empirical challenges and limitations of these models. Throughout the lecture, we will work with precise mathematical formalizations of the ideas that we want to think and talk about. In consequence, a solid understanding of the mathematical toolbox of standard microeconomics (e.g., differential calculus and constrained optimization; basic set theory; integration by parts) will be helpful as it will allow to focus on the underlying economic intuition. However, every required mathematical concept will be introduced and explained along the way, such that a strong interest in formal economic analysis is more import- ant than an advanced mathematical background. The exposition is primarily based on the standard graduate textbooks • Mas-Colell, Whinston and Green (1995): "Microeconomic Theory" • Jehle and Reny (2001): "Advanced Microeconomic Theory"					
• e • a	xplain pply th	ng the course students w essential findings of mice e involved methods to gi ze in which real life situat	roeconomic theory, ven stylized example			
_		number of weekly contact hours, l	-			
V (2) +	Ü (2)					
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
b) writt c) term Langua	a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus					
Allocat	Allocation of places					
Additional information						
Worklo	Workload					
150 h	150 h					

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Principles of European Regulation 12-M-PRE-161-mo1						
Module	e coordi	inator		Module offered by		
holder	of the C	Chair of Industrial Econor	ndustrial Economics Faculty of Management and Economics			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	numer	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Description: This module examines the regulation of traditional network industries (railroads, electricity, telecommunicati- ons) in Europe: theory and practice Outline of syllabus: 1. Overview of the regulation of railroads in Gemany and Europe in practice 2. Overview of the regulation of the electricity industry in Gemany and Europe in practice 3. Overview of the regulation of the telecommunications industry in Gemany and Europe in practice 4. Political economy of regulation 5. Natural monopoly and price regulation under ideal conditions 6. Price regulation under realistic circumstances 7. Procurement: advantages and disadvantages 8. Network access regulation Intended learning outcomes After succesfully completing this module, students wiil be able to (i) describe central problems in regulation of the traditional network industries; (ii) identify and apply the appropriate results from Industrial Organization;						
		tion theory. umber of weekly contact hours,	language — if other than Ge	rman)		
V (2)						
		essment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered creditable for bonus						
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Workload						
150 h						
Teachi	Teaching cycle					
Teaching cycle: no courses offered						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	immes)		
Master's w	ith 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 293 / 590

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Theory of Industrial Organization 2 12-M-Tl2-161-m01						
Module coordinator			Module offered by			
holder of the Chair of Industrial Economics Faculty of Management and Economi			nent and Economics			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Description: This course discusses vertical contracts in supply chains and their impact on competition. Outline of syllabus: 1. The classic problem of double marginalisation and its solution by nonstandard contracts (resale price mainte- nance, nonlinear pricing (rebates), exclusive territories, exclusive dealing etc.) 2. Contracts for service 3. Common agency 4. The delegation principle 5. The commitment problem 6. Interlocking relationships 7. Foreclosure by vertical contracts or mergers Intended learning outcomes After completing the course students are able to (i) explain the results of theoretical industrial economics on vertical contracts; (ii) apply the involved methods to given simple examples on their own;						
		e impact of certain verti				
	S (type, n	umber of weekly contact hours	, language — if other than Ge	rman)		
		s essment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term Langua	paper ge of a ment o	nination (approx. 60 to (approx. 15 to 20 pages ssessment: German and ffered: In the semester bonus) d/or English	offered		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
		LPO I (examination regulatio	ns for teaching-degree progra	mmes)		
Module	e appea	irs in				
Master's wi	ith 1 majoı	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 295 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Empirical Industrial Organization					12-M-EIO-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
 C E 2. Estin R M D 3. Furth D 3. Furth 0 Intende The stu comes. one car a thoro dents v firms. T based of 	Contents 1. (Recap of) Econometric methods • Ordinary Least Squares (OLS) • Endogeneity and how to deal with it (Instrumental Variables) 2. Estimation of demand • Representative consumer models • Multinomial Logit Model (ML) and extensions • Discrete choice models with individual data • Discrete choice models with aggregate data 3. Further applications • Demand and Supply estimation • Inferring marginal costs • Using structural models for counterfactual policy analysis Intended learning outcomes The students taking this class will learn modern empirical methods in studying questions related to industry outcomes. They will become familiar with methods used in estimating demand and during exercises will learn how one can implement these methods in practice using statistical software. The lectures will help students to have a thorough understanding of the so-called New Empirical Industrial Organization (NEIO) methodology. The students will become familiar with methods used in estimating demand and imperfect competition models among firms. They will learn how to use such models to infer marginal costs as well as constructing policy simulations based on the estimated models to evaluate the effects of changes in the competitive environment, such as mergers. A student that successfully completes this course will not only be able to read empirical academic papers					
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	Ü (2)					
module is	creditab	le for bonus)	-	examination offered — if no	t every semester, information on whether	
a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	Allocation of places					
Additio	Additional information					
Worklo	ad					
150 h	150 h					

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					Abbreviation
Econom	nics of	Information and Network	Industries		12-M-EIN-161-m01
Module	coord	inator		Module offered by	
holder	of the C	Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Outline of syllabus: 1. Network effects • Consumer demand in markets with network effects and rational expectations • Monopoly pricing • Competition in markets with network effects • Competition in markets with network effects • Competition jolicy issues in industries with network effects 2. Competition in markets with switching costs • Simple two period models of markets with switching costs • Various modelling possibilities for switching costs • Switching costs and long-run prices 3. Two(Multi)-Sided Markets and Platforms • Monopoly pricing in platform markets • Competition in platform markets • Divide and conquer strategies • Non-price strategies • Competition policy issues in platform markets 4. Access pricing in network industries • Network competition and role of access prices • Regulation of access prices					
The cou	ırse wil	ll be taught in English.			
Intende	ed learr	ning outcomes			
advanc tation for strategi ve of th	ed con orm). T ies and e state	cepts of economics, info hey will be able to refer t can predict the market c	rmation and network o the modeling exam outcome, evaluate inf priate policy action a	industries (including ples from the praction ormation and netwo lternatives derived.	es the in the lecture introduced g their mathematical represen- ce by impute obvious corporate ork industries from the perspecti- They will sufficiently understand able to think critically.
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	Ü (2)				
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
b) writte c) term Langua	a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of p	olaces			

Master's with 1 major Economathematics (2016)

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					
Topics in Industrial Organization 1 12-M-TIO1-161-mod					12-M-TIO1-161-m01
Module	e coord	inator		Module offered by	<u> </u>
			nagement and Econo-	-	nent and Economics
ECTS	Meth	od of grading	Only after succ. co	mpl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	5	
1 seme	ster	graduate			
Conten	its		k		
bringin	ig in cre		ited in other universities		urse, this course can be used for uld be from an area that is related
Intend	ed lear	ning outcomes			
Due to	the cre	diting of different mo	dules, no competence d	lescription can be ma	ade.
Course	S (type, r	number of weekly contact ho	ours, language — if other than Ge	erman)	
V (2) +	Ü (2)				
module is a) writt b) term Langua	s creditab en exa paper age of a sment o	le for bonus) mination (approx. 60 (approx. 15 to 20 pag ssessment: German a ffered: In the semest	to 120 minutes) or ges)		ot every semester, information on whether
Allocat					
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachi	ng cycl	e: no courses offered			
Referre	ed to in	LPO I (examination regula	ations for teaching-degree progr	ammes)	
Module	e appea	ars in			
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)					
Master	's degr	ee (1 major) China La	nguage and Economy (2	016)	

Module title					Abbreviation	
Topics in Industrial Organization 2 12-M-TIO2-161-mo1					12-M-TIO2-161-m01	
Modul	e coord	inator		Module offered by		
Dean o mics	of the Fa	aculty of Business Man	agement and Econo-	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. co	mpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ester	graduate				
Conter	nts	κ				
bringin to indu	ng in cre Istrial e	edits from courses visit conomics or game the	ted in other universities		urse, this course can be used for uld be from an area that is related	
	-	ning outcomes				
Due to	the cre	diting of different mod	lules, no competence d	lescription can be ma	ade.	
Course	es (type, i	number of weekly contact hou	rs, language — if other than Ge	erman)		
V (2) +	Ü (2)					
		Sessment (type, scope, lan ble for bonus)	guage — if other than German,	examination offered — if no	ot every semester, information on whether	
b) term Langua Assess	n paper age of a		es)	offered		
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	pad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: no courses offered				
Referre	ed to in	LPO I (examination regulat	ions for teaching-degree progr	ammes)		
Modul	e appea	ars in				
Master's degree (1 major) Economathematics (2016)						
Master	Master's degree (1 major) Business Management (2015)					
	Master's degree (1 major) China Business and Economics (2016)					
			nal Economic Policy (20			
Master	r's degr	ee (1 major) China Lan	guage and Economy (2	016)		

Module title					Abbreviation	
Topics	in Indu	strial Organization 3			12-M-TIO3-161-m01	
Modul	e coord	inator		Module offered by		
Dean c mics	of the Fa	aculty of Business Ma	nagement and Econo-	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. cor	mpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ester	graduate				
Conter	nts					
bringir to indu	ng in cre Istrial e	edits from courses visi conomics or game the	ited in other universities		urse, this course can be used for uld be from an area that is related	
		ning outcomes				
Due to	the cre	diting of different mo	dules, no competence d	lescription can be ma	ade.	
Course	es (type, I	number of weekly contact hou	urs, language — if other than Ge	erman)		
V (2) +	Ü (2)					
		Sessment (type, scope, lan ble for bonus)	nguage — if other than German,	examination offered — if no	ot every semester, information on whether	
b) term Langua Assess	n paper age of a		es)	offered		
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: no courses offered				
Referre	ed to in	LPOI (examination regula	tions for teaching-degree progr	ammes)		
Modul	Module appears in					
Master's degree (1 major) Economathematics (2016)						
	Master's degree (1 major) Business Management (2015)					
	Master's degree (1 major) China Business and Economics (2016)					
	-		onal Economic Policy (20	-		
Master	r's degr	ee (1 major) China Lar	nguage and Economy (2	016)		

Module title					Abbreviation	
Contrac	Contract Economics				12-M-CE-161-m01	
Module	coord	inator		Module offered by		
holder o formati		Chair for Economics, Co nomics	ntract Theory and In-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes		graduate				
Conten		50/70s, microeconomic				
ons are characterized by asymmetric distribution of information – i.e., at least one of the parties participating in a transaction usually is privy to information that the remaining parties do not have access to. This asymmetric distribution of information subsequently was recognized to be a major impediment for transactions to be eco- nomically efficient. Contract theory addresses the question how the inefficiencies arising from asymmetric dis- tribution of information can best be mitigated by appropriate design of the contractual (or, more generally, insti- tutional) framework that governs the transaction under consideration. This lecture covers the baseline models of "moral hazard" (i.e., situations where one party has private knowledge after a contract has been signed) and "adverse selection" (i.e., situations where one party has private knowledge before a contract is signed). As appli- cations we will address questions discussed in organizational, personnel or industrial economics, such as incen- tive design within organizations or the design of labor law regulations and competition laws. Even though we will work with precise mathematical formalizations of the ideas that we want to think and talk about, this course requires little more than a solid understanding of basic differential calculus. More important than having a solid mathematical background is having a strong interest in formal economic analysis and fun with logical thinking and puzzle solving. The exposition is primarily based on the following textbook: Laffont and Martimort (2002): "The Theory of Incenti- ves"						
		ning outcomes				
 e: a ir tr e^x 	xplain pply th nterpre acting valuate	ng the course students essential findings of co e involved methods to t the properties of real- parties in the presence government intervention the contracting parties	ntract theory, given stylized example life contracts as the ou of asymmetric informa ons with regard to their	tcome of the interac ation,		
		umber of weekly contact hours	s, language — if other than Ge	rman)		
V (2) + 1						
module is a) writte	creditab en exai	eessment (type, scope, lang le for bonus) nination (approx. 60 to	120 minutes) or	examination offered — if nc	ot every semester, informat	ion on whether
	b) term paper (approx. 15 to 20 pages)					
Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
creditable for bonus						
Allocation of places						
 Additional information						
	natifi					
Master's wi	th 1 majoi	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 304 / 590

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation	
Strateg	ic Deci	sions and Competition			12-M-SDC-161-m01
Module	coord	inator		Module offered by	
holder	of the C	Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
1. Strate	egic sit	uations and decision ma	king		
2. Analy	yzing st	trategic situations with g	ame theory		
2. Nash	equilil	ative simultaneous move brium ligopoly markets	games		
3. Dyna	mic Ga	mes			
2. Role 3. Mode	of com els of a	stage games and subgar mitment in dynamic situa dvertising ining and unions		n	
4. Repe	ated G	ames			
2. Collu	sion be	of coordination in long in etween competing firms tent monetary policy	teractions		
5. Statio	c game	s of incomplete Informat	ion		
1. Baye 2. Aucti		ash equilibrium			
6. Dyna	imic ga	mes of incomplete inforn	nation		
2. Perfe 3. Signa 4. Job-n	ect Baye alling g narket s	d and nonlinear pricing esian equilibrium ames signalling avestment and capital str	ucture		
Intended learning outcomes					
After successful completion of this class, the students should be familiar with economic models that can be used to shape managerial strategy and aid in making decisions in strategic situations. Especially, by making use of simple two stage games, they should be able to formulate dynamic policies in a wide variety of strategic situations. The students will acquire an intuitive understanding of the underlying economic mechanisms which emerge from the analysis of game theoretic models for a wide variety of strategic situations arising in industrial economics, marketing, organization, finance, trade and labor. Moreover, they will acquire skills which enable them to make predictions in strategic situations by making use of simple mathematical models. By means of completing case based exercises, they will learn to transform real life business situations to an appropriate economic model. Based on an analysis of this model, they will be able to devise optimal strategies and derive the corresponding managerial implications.					

Master's with 1 major Economathematics (2016)

The course will be taught in English.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 120 minutes) or
b) term paper (approx. 15 to 20 pages)
Language of assessment: German and/or English
Assessment offered: In the semester in which the course is offered creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Germai	n and E	uropean Antitrust Law 1	02-N-P-W13-161-m01			
Module coordinator				Module offered by		
Dean o	f Studi	es Faculty of Law		Faculty of Law		
ECTS	Metho	hod of grading Only after succ. cor		npl. of module(s)		
3	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 semester undergraduate						
Conten	Contents					
German contents available but not translated yet.						

Die Vorlesung bietet einen Überblick über das Deutsche und Europäische Kartellrecht. Es wird das Zusammenspiel der Normen des EG-Vertrages sowie einschlägiger Sekundärrechtsakte mit dem deutschen Gesetz gegen Wettbewerbsbeschränkungen (GWB), insbesondere im Bereich des Kartellverbots und der Missbrauchsaufsicht, dargestellt. Zudem werden die Grundlagen der Fusionskontrolle behandelt und anhand von ausgewählten Einzelthemen vertieft.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Die Studierenden haben grundlegende Kenntnisse des Deutschen und Europäischen Kartellrechts erworben. Sie können Problematiken aus diesen Bereichen in den Kontext der deutschen und europäischen Regelungen einordnen.

Courses (type, number of weekly contact hours, language – if other than German)

V (2)

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 120 minutes) or

b) oral examination (approx. 15 minutes)

Assessment offered: Usually once a year, winter semester

Allocation of places

10 places. There are no restrictions with regard to available places for students of the degree programme Rechtswissenschaft (Law) pursuing the degree Erste Juristische Staatsprüfung (first state examination in law) as well as Bachelor's students with the minor Privatrecht (Private Law). A total of 10 places will be allocated to students of the Master's degree programme Economics. Should there be more than 10 applications, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

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Workload

90 h

Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) International Economic Policy (2015)

Master's with 1 major Economathematics (2016)

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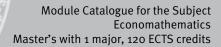
Module title Abbrevi					Abbreviation
German and European Antitrust Law 2 02-N-P-W21-161-					02-N-P-W21-161-m01
Module coordinator				Module offered by	
Dean of	f Studie	es Faculty of Law		Faculty of Law	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	unknown			
Conten	ts				
No info	rmatio	n on contents available.			
Intende	ed leari	ning outcomes			
No info	rmatio	n on intended learning ou	utcomes available.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2)					
		e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		nination (approx. 120 mi	nutes) or		
b) oral	examin	ation (approx. 15 minute	s)		
		ffered: Usually once a ye	ar, summer semester	,	
Allocat					
There are no restrictions with regard to available places for students of the degree programme Rechtswissen- schaft (Law) pursuing the degree Erste Juristische Staatsprüfung (first state examination in law) as well as Ba- chelor's students with the minor Privatrecht (Private Law). A total of 10 places will be allocated to students of the Master's degree programmes International Economic Policy or Economics, Business Management as well as Wirt- schaftsmathematik (Mathematics for Economics). Should there be more than 10 applications, places will be allo- cated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	's degr	ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Ma			
Master's degree (1 major) International Economic Policy (2015)					



National and International Monetary Economics

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation	
Monetary Policy and the Financial System 12-M-EG1-161-m01						
Module	e coord	inator		Module offered by		
holder of the Chair of Monetary Economics and International Financial Markets			omics and Internatio-	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
repeats third or section	s macro ne, mor deals	a thorough introduction economic concepts. The netary policy with the zee with linkages between module: lectures and ea	e second one deals wi ero lower bound on no monetary and fiscal po	ith core topics on mo minal interest rates c	netary policy and th	eory. In the
ronnat	orthe	inouule: lectures and e				
		Basic knowledge of mi ess or similar fields.	croeconomics and ma	croeconomics as tau	ght in Bachelor prog	rams in Eco-
Usabilit	ty: Mas	ter International Econo	mic Policy			
Require exam.	ements	for getting credit point	s according to the Erop	oean Credit Transfer S	System (ECTS): Pass	ing the final
ECTS ar	nd grad	ling: 5 ECTS, Grading or	n a scale from 1-5 base	d on the final exam.		
Frequer	ncy of t	he module: Each winte	r term			
Workloa	ad: 150	hours (Lecture + Exerc	ise Session + Self Stuc	ly)		
Duratio	n: 1 Se	mester				
Intende	ed learr	ning outcomes				
Students will acquire a thorough understanding of the theory and practice of monetary policy. Students gain ex- pertise on institutional aspects and theoretical monetary models. Having completed the module, students will be able to understand current developments in monetary policy and and apply models and theories to analyze and evaluate these.						
Course	S (type, n	umber of weekly contact hours	s, language — if other than Gei	rman)		
Ü (2) +	V (2)					
		e essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English						
Allocation of places						
30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.						
Additional information						
Master's wi	th 1 major	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 312 / 590

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) Media Communication (2016)

Master's degree (1 major) China Language and Economy (2016)

Master's degree (1 major) Media Communication (2018)

Master's degree (1 major) Media Communication (2019)

Module	Module title Abbreviation					
Monetary Policy, Foreign Exchange Markets, and the International Monetary 12-M-EG2-161-mo1 System						
Module	e coord	linator		Module offered by	•	
		Chair of Monetary Econo Markets	mics and Internatio-	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 semester graduate						
Conten	Its		·			
The for Functic specula	eign ex oning o ation w	vith FX.		players and evolution	on; FX transactions; hedging and	
Exchange rate economics: Theoretical background and empirical validity of covered interest parity (CIP), uncovered interest rate parity (UIP) and purchasing power parity (PPP); Monetary approach: Flexible price monetary model and sticky price (Dorn- busch-) overshooting model; Balassa-Samuelson effect; FX valuation via the PPP and the macroeconomic balan- ce approach; Real effective exchange rates; Empirical validity of the exchange rate theories; Exchange rates and the current account.						
Classif	ication	e regimes and monetary of exchange rate regime monetary system; centra	es; the policy trilemma	a in open economies	; historical development of the	
		en economy macroecono of the Mundell-Fleming n			fixed and flexible exchange ra-	
The BN		MP-PC) model of the ope xchange rates; optimum			ary and fiscal policy under fixed practice.	
Curren Interna ming fr	tional	experience with currency	y crises since the 1970	os; modelling curren	cy crises within the Mundell-Fle-	
Manag	ed-floa	ting as a solution for the	e policy trilemma.			
Intend	ed lear	ning outcomes				
By completing this course, students receive a profound understanding of the functioning of foreign exchange markets, the drivers of exchange rate movements and some exchange rate valuation methods used in practice. Next to a profound knowledge of exchange rate theory the course highlights its practical applicability, e.g. as an investment strategy. In the second part of the course students learn the principles of monetary policy in open economies, including its trade-offs and risks like currency crises. Students will be able to analyze these issues based on theoretical models as well as the international historical experience.						
Course	S (type, I	number of weekly contact hours,	language — if other than Ge	rman)		
Ü (2) +	V (2)					
		s essment (type, scope, langu ble for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether	
a) written examination (approx. 60 minutes) or b) term paper (approx_15 pages)						

b) term paper (approx. 15 pages) Master's with 1 major Economathematics (2016)

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Wirtschaftsmathematik - 2016

Language of assessment: German and/or English

Allocation of places

30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)



Compulsory Core Electives

(10 ECTS credits)

Module title				Abbreviation		
DSGE Modelling				12-M-DMM-161-mo1	L	
Module	e coord	inator		Module offered by		
head of the Work Group of Empirical Economics Faculty of Management and Economics			nent and Economics			
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
are des present are forr plans. I show h	igned f tative h nulated n a thi ow cha	to describe the busines household. In particula d. In a second step, we rd step, we explain what inges in interest rates i	"Dynamic Stochastic G ss cycle at the macro le r, we describe how con focus on the firm secto at role the central bank nteract with optimal de CAPM models and mon	vel. In a first step, we sumption, asset allo or and address how f plays in stabilising t ecisions taken by hou	e analyse the behavi cation and labour su irms solve for optima the business cycle. T useholds and firms.	our of a re- Ipply plans al production
Intende	ed lear	ning outcomes				
• S • L • S • B • B	 The course offers analytical tools designed to solve DSGE models. These analytical skills encompas: Solving of intertemporal optimization problems (e.g., consumption Euler-equations). Linearization methods (e.g., Taylor-expansions). Solving linear difference expectations by minimum state variabel techniques (MSV-solution). Basic time series concepts such as impilse response functions, variance decompositions. Basic insights in MATLAB/ Dynare programming: specifying, solving and estimating DSGE models. Based on the course students are able themselves to design and implement DSGE models. 					
			s, language — if other than Ge	•		
V (2) + Ü (2)						
		sessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term	paper	mination (approx. 60 n (approx. 15 pages) ssessment: German ar				
Allocat	Allocation of places					
Additio	nal inf	ormation				
 Worklo	ad					
150 h						
Teachi	ng cvcl	e				
		e: winter semester				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)						
Master's wi	th 1 majo	r Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 317 / 590

Module title					Abbreviation
Europea	European Macroeconomic Policy				12-M-EMP-161-m01
Module	e coord	inator		Module offered by	
holder nal Fina		Chair of Monetary Econon Markets	nics and Internatio-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5		rical grade			
Duration Module level Other prerequisites 1 semester graduate					
Conten		Sidduite	<u> </u>		
In parti	cular, t	he course outline is as fo	llows:		
I. Targe	ets of m	acroeconomic policy			
II. The r	mechai	nics of the two core macr	oeconomic models		
a. The c	classica	al model of a self-stabiliz	ing corn economy		
b. The k	Keynes	ian model of a monetary	economy with inhere	nt instability	
c. The f	inancia	al system and banks in th	e two models		
III. The	diverg	ing policy implications o	f the two paradigms		
a. Unen	nploym	ient: wage rigidities versi	us rationing of the lat	oor market by the go	ods market
b. Gove	ernmen	t debt: Crowding out vers	sus Modern Monetary	r Theory (MMT)	
c. Inflat	ion: qu	antity theory versus Phil	lips curve		
d. The i	ncomp	atibility of the two worlds	5		
IV. A siı	mple IS	5/MP/PC model			
V. The r	moneta	ary policy of the ECB			
a. The r	nandat	e of the ECB and possibl	e trade-offs with une	mployment and finar	ncial stability
b. Conv	vention	al/unconventional instru	ments of the ECB / TI	he risk of fiscal domi	nance
c. ECB s	strateg	y and climate policy			
d. The t	hreat c	of deflation and the Zero-	Lower Bound		
VI. The difficult task of coordinating 19 independent national fiscal policies in the EMU					
a. Specific challenges due to lack of political integration: Lack of coordination versus lack of fiscal discipline					
b. The l	imitati	ons set by Stability and G	Frowth Pact		
c. The r	ational	e of fiscal rules: Maastric	cht Treaty, Fiscal Com	pact/Debt Brake, Go	olden Rule / reform proposals
VII. Spe	ecific El	MU topics			
a. Is the	e EMU a	an optimum currency are	a?		

b. The financial crisis and the euro crisis: The dismal performance of the ECB until 2012 and the paradigm change by Mario Draghi ("Whatever it takes")

c. The ECB in the Corona crisis and Next Generation EU

Intended learning outcomes

By the end of the course, students will have gained a basic understanding of European macroeconomics.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or

b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Applied Human Geography (2017) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module titl	le	Abbreviation			
Portfolio Selection and Capital Market Theory				12-M-B1a-161-m01	
Module coo	ordinator	Module offered by			
Dean of the mics	e Faculty of Business Manage	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS Me	ethod of grading	Only after succ. com	pl. of module(s)		
5 nur	merical grade				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
This modul	le is be discontinued, no cou	irses are offered curr	ently or will be offere	ed in future.	
This is due	to one of the following reaso	ons:			
	_		1	614/ I	
	ecturer who offered the cour contents are no longer taugh				
				ulty of Business Management	
and Econor					
	earning outcomes				
Due to the I module.	lack of relevance, no learnin	g outcomes descript	ion is available beca	use no courses are held for this	
Courses (typ	pe, number of weekly contact hours, la	anguage — if other than Ger	man)		
V (2) + Ü (2))				
	assessment (type, scope, languaş litable for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
	mination (approx. 60 minute				
	of assessment: German and/	or English			
Allocation	of places				
Additional	information				
Workload					
150 h					
Teaching cy	·				
;	ycle: no courses offered				
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
	egree (1 major) Economather egree (1 major) Business Info		16)		
	egree (1 major) Business Mai	-)10 <i>)</i>		
	egree (1 major) China Busine		.016)		
	egree (1 major) International				
Master's de	egree (1 major) China Langua	age and Economy (20	016)		

Module title					Abbreviation	
Econor	Econometrics 1 12-M-OE1-161-mo1					
Module coordinator				Module offered by		
holder of the Chair of Econometrics				Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	Its					
Description: This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the model's explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions 10. Dummy variables						
Intend	ed lear	ning outcomes				
The students acquire knowledge of the basics, concepts and methods used in the classical linear regression mo- del and understand the role of econometrics in science and data analysis. In particular, they learn how to analy- tically derive, calculate and interpret the coefficients, standard errors and p-values of a classic regression output of the multiple regression model. Furthermore, they are able to formally state and motivate the assumptions and properties of OLS and know how to deal with transformed and dummy variables. Additionally, students will be able to test multiple linear restrictions on the parameters and will be able to apply these tests to real economic, business and social science questions. The competences acquired in this course serve as a prerequisite for "Econometrics II", "Econometrics III", "Micro- econometrics" und "Financial Econometrics".						
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
V (2) +	Ü (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	ion of p	olaces				

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title		Abbreviation			
Advanced Mag	croeconomics			12-M-MFF-161-m01	
Module coordinator			Module offered by		
holder of the Chair of International Economics			Faculty of Managem	nent and Economics	
ECTS Metho	od of grading	Only after succ. com	pl. of module(s)		
5 nume	rical grade				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
<u>Content</u>					
and a review of mans model, of	of the Solow-growth mode on endogenous growth th ns of this framework invo	el. The lecture then fo neory and it puts the r	cuses on the infinite oles of human capit	of the facts of long-run growth e-horizon Ramsey-Cass-Koop- al and institutions under scruti- es and the environment will be	
<u>Outline</u>					
I Facts and the	e Solow Growth Model				
ll Infinite-Horiz	zon Ramsey-Cass-Koopm	ans model			
III Endogenou:	s Growth				
IV Human Cap	ital, Social Infrastructure	and Beyond			
V Applications	s (Urban and regional gro	wth; Growth, resourc	es and the environm	ent)	
Literature:					
The course dra	aws strongly on the textb	ook:			
David Romer,	Advanced Macroeconom	ics, 4 th edition, McGra	aw-Hill Irwin.		
We will use jo	urnal articles and researc	ch papers at several p	arts of the lecture.		
Intended lear	ning outcomes				
Students acquire a working knowledge of the key models and analytical tools of advanced macroeconomics. This enables them to identify the key forces that determine the determinants of income levels and growth rates of incomes, to make informed policy analysis and statements and to critically evaluate current controversies and developments as well as to conduct their own research.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (2) + Ü (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
b) term paper	a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English				
Allocation of p		-			

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

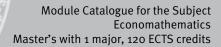
Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	e title				Abbreviation		
Selected Topics of European Integration					12-M-SEI-161-m01		
Module coordinator				Module offered by			
holder of the Chair of Monetary Economics and Internatio-					agent and Economics		
holder of the Chair of Monetary Economics and Internatio- nal Financial Markets							
ECTS Method of grading Only after succ. compl. of module(s)							
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites	i			
1 seme	ester	graduate					
Conten		0					
The mo	odule p	rovides students with a mic policy.	more in-depth unders	tanding of specific p	roblems of macroeconomics and		
		ning outcomes					
(ii) crea (iii) dea	ate, pre al with	e acquired knowledge a esent and defend a scie the working papers of c eter for the processing o	ntific paper; other participants;	additional technique	s of scientific work;		
Course	S (type, 1	number of weekly contact hours	s, language — if other than Ge	rman)			
S (2)							
		sessment (type, scope, lang ble for bonus)	uage — if other than German,	examination offered — if no	t every semester, information on whether		
Langua	age of a	pprox. 15 pages) and pr issessment: German an iffered: Once a year, sui	d/or English	minutes), weighted	2:1		
Allocat		·					
by lot a numbe	among er of pla	all applicants irrespecti	ive of their subjects. (2 the same procedure. () Places on all course	e places, places will be allocated es of the module with a restrictec be maintained and places re-allo		
Additio	onal inf	ormation					
Worklo	ad						
150 h							
	ng cycl	P					
Teaching cycle							
	Teaching cycle: after announcement						
Teachi			ons for teaching degree progra	ammes)			
Teachi		e: after announcement	ons for teaching-degree progra	ammes)			
Teachiı Referre 	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)			
Teachin Referre Module	ed to in e appea	LPOI (examination regulation		ammes)			
Teachin Referre Module Master	ed to in e appea	LPO I (examination regulation	nematics (2016)	ammes)			
Teachin Referre Module Master Master	ed to in e appea d's degr	LPOI (examination regulation ars in ree (1 major) Economath	nematics (2016) Management (2015)				
Teachin Referre Module Master Master Master	e appe a f's degr f's degr f's degr	LPO I (examination regulation ars in ree (1 major) Economath ree (1 major) Business M	nematics (2016) Management (2015) ness and Economics (2	2016)			
Teachin Referre Module Master Master Master Master	e appea d's degr s degr s degr s degr s degr	LPO I (examination regulation ars in tee (1 major) Economath tee (1 major) Business M tee (1 major) China Busi	nematics (2016) Management (2015) ness and Economics (2 al Economic Policy (20	2016) 115)			
Teachin Referre Module Master Master Master Master Master	ed to in e appea f's degr f's degr f's degr f's degr f's degr	LPO I (examination regulation ars in tee (1 major) Economath tee (1 major) Business M tee (1 major) China Busi tee (1 major) Internation	nematics (2016) Management (2015) ness and Economics (2 Pal Economic Policy (20 guage and Economy (20	2016) 115)			
Teachin Referre Module Master Master Master Master Master Master	ed to in e appea d's degr d's degr d's degr d's degr d's degr d's degr d's degr	LPO I (examination regulation ars in eee (1 major) Economath eee (1 major) Business M eee (1 major) China Busi eee (1 major) Internation eee (1 major) China Lang eee (1 major) Manageme eee (1 major) Internation	nematics (2016) Management (2015) ness and Economics (2 al Economic Policy (20 guage and Economy (20 ent (2018) al Economic Policy (20	2016) 015) 016) 018)			
Teachin Referre Module Master Master Master Master Master Master Master	ed to in e appea d's degr d's degr d's degr d's degr d's degr d's degr d's degr d's degr	LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang ee (1 major) Manageme	nematics (2016) Management (2015) ness and Economics (2 guage and Economy (20 guage and Economy (20 ent (2018) nal Economic Policy (20 ness and Economics (20	2016) 015) 016) 018)			

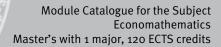
Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021)





Econometrics (20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation		
Econon	Econometrics 1 12-M-OE1-161-mo1						
Module	e coord	inator		Module offered by			
holder	of the (Chair of Econometrics	-	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
This model. In dule ex ces tes Linear a Outline 1. Rand 2. Impo 3. Poin 4. Simp 5. Mod 6. Mod 7. Simp 8. Mult 9. Linea 10. Dur 11. Mul	Contents Description: This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the model's explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions 10. Dummy variables						
del and tically o of the r propert able to busine The cor	Intended learning outcomes The students acquire knowledge of the basics, concepts and methods used in the classical linear regression mo- del and understand the role of econometrics in science and data analysis. In particular, they learn how to analy- tically derive, calculate and interpret the coefficients, standard errors and p-values of a classic regression output of the multiple regression model. Furthermore, they are able to formally state and motivate the assumptions and properties of OLS and know how to deal with transformed and dummy variables. Additionally, students will be able to test multiple linear restrictions on the parameters and will be able to apply these tests to real economic, business and social science questions. The competences acquired in this course serve as a prerequisite for "Econometrics II", "Econometrics III", "Micro- econometrics" und "Financial Econometrics".						
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)			
V (2) +	Ü (2)						
		Sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether		
b) term	paper ge of a	mination (approx. 60 mir (approx. 15 pages) ssessment: German and bonus					
Allocat	ion of p	olaces					
		· · · · · · · · · · · · · · · · · · ·					

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Econometrics 2 12-M-OE2-161-m01					12-M-OE2-161-m01	
Module c	coordi	nator		Module offered by	odule offered by	
holder of	f the C	hair of Econometrics		Faculty of Managem	nent and Economics	
ECTS N	Netho	d of grading	Only after succ. com	pl. of module(s)		
5 n	numer	ical grade				
Duration		Module level	Other prerequisites			
1 semest	er	graduate				
Contents	5					
This mod Partly as well as vi I")) are di tion. Linear alg Syllabus: 1. Specifi 2. Multico 3. Hetero 4. Autoco 5. Genera Intended Students zed linea data prob	Description: This module deals with the basics, concepts and methods of the generalized least squares (GLS) framework. Partly as a motivation for the GLS model and partly for its own right, different specification and data problems as well as violations of model assumptions of the OLS estimator (as introduced in "Ökonometrie I" ("Econometrics I")) are discussed. This includes multicollinearity, a test for structural breaks, heteroskedastiticy and autocorrela-					
plementa above-me	ation o entior	of empirical analyzes and	to answer selected he competences acq	(economic) scientific uired in this course	c issues if available data with the serve as a prerequisite for "Eco-	
Courses ((type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + Ü	(2)					
Method of module is cr			ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) term p	aper e of as	nination (approx. 60 min (approx. 15 pages) ssessment: German and/ ponus				
Allocatio	n of p	laces				
Additiona	al info	ormation				
Workload	d					
150 h						
Teaching						
Teaching	cycle	: summer semester				

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Compulsory Core Electives

(10 ECTS credits)

Module title					Abbreviation	
Econom		-			12-M-OE3-161-m01	
Module	coordi	nator		Module offered by	odule offered by	
holder	of the C	Chair of Econometrics	F	Faculty of Managem	ent and Economics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	numer	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
zed leas the inst models includir	odule d st squa trument as wel ng (non	eals with advanced econ res estimator discussed tal variable (IV) estimato l as basic methods and)stationarity, integration is used as formal aid.	in Ökonometrie I and or, the generalized me concepts used in uni-	l II (Econometrics I a thod of moments (G	nd II). In particular, t MM) estimator, distr	his includes ibuted lag
4. Distri 5. Statio 6. Dete	in-varia timatio eralized ibuted onary u rminist		cesses			
		ning outcomes	-			
miliariz course, mator te econom selected ted pro- dents te	ed with studer o the ex nics and d time cesses o apply	acquire thorough unders a diverse error-in-variabl nts understand the gene xtent that they can discu d understand scientific p series issues, such as d , enabling them to cond the above mentioned m neir theoretical and prace	es issues and will be ralized method of mo iss their pros and con papers using these mo istributed lag models uct a comprehensive nethods and concepts	capable of handling ments (GMM) and th s, apply these to sel- ethods. Furthermore, non-stationarity, sp time series analysis. to real life question	them appropriately. e instrumental varia ected questions in q , they become acqua urious correlation an In brief, the course	After the ble (IV) esti- juantitative ainted with nd cointegra- enables stu-
Courses	S (type, n	umber of weekly contact hours,	language — if other than Ger	man)		
V (2) + (Ü (2)					
		essment (type, scope, langua le for bonus)	age — if other than German, o	examination offered — if no	t every semester, informati	on on whether
b) term	paper ge of a	nination (approx. 60 mii (approx. 15 pages) ssessment: German and bonus				
Allocati	ion of p	laces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Master's wi	th 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 334 / 590

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation							
Analys	Analysis of Financial Market Data 12-M-FMO-161-m01						
Modul	e coord	inator		Module offered by			
holder	ofthe	Chair of Econometrics		Faculty of Managem	nent and Economics		
ECTS Method of grading Only after succ. co				npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites	i			
1 seme	ester	graduate					
Conter	nts						
Contents Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market da- ta. The concept of market efficiency is explained and critically examined with reference to the random walk hy- pothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and app- lied in practice. Based on the findings, market microstructure models that can explain some important empiri- cal findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 3. Theoretical market models 4. Event studies 5. Univariate modelling of time series data 6. Models to explain volatility (ARCH and GARCH) 7. Estimation of the capital asset pricing model							
Campb Geyer, schaftl Hamilt Mills, 1	der, C.: pell, JY, A.: Info lichen Z on, JD: f.: Econ	A Guide to Financial D Lo, AW, MacKinley, AC: rmation, Erwartung und ceitreihen, Verlag V. Flo Time Series Analysis, P ometric Modelling of Fi delling Financial Time S	The Econometrics of F d Risiko. Aspekte der V rentz. rinceton University Pre nancial Time Series, Ca	erteilung, Abhängigk ss.	eit und Varianz von		
Intend	ed lear	ning outcomes					
cal ana grams dent h	Students have significant knowledge of the fundamentals, methods and concepts that are needed for the empiri- cal analysis of financial market data. They can autonomously perform statistical test decisions with statistic pro- grams such as R and critically analyze their economic importance. In addition, the students learn the indepen- dent handling of empirical capital market data and at the end of the course, they will have the ability to develop own functions and routines, for example for R.						
Course	es (type, r	number of weekly contact hour	s, language — if other than Ge	rman)			
V (2) +	Ü (2)						
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether	
b) term Langua	n paper	mination (approx. 60 m (approx. 15 pages) ssessment: German an bonus					
						·	
Master's w	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 336 / 590	

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title					Abbreviation	
Microe	conom	etrics			12-M-MIK-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of Econometrics Fa			Faculty of Managen	nent and Economics		
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
	adequ	ately addressed. The m	and concepts for the a naximum likelihood me			
2. Mod 3. Mod	t is mic els for els for	roeconometrics? qualitatively depender limited dependent vari Ident models				
2. Ronr 3. Verb	ne, W. ning, G. eek, M	H.: Econometric Analys : Microeconometrics, S .: Modern Econometric n, R., Boes, S.: Analysi	Springer Verlag.	r Verlag.		
Intende	ed lear	ning outcomes				
qualita	tively a		e of the maximum likeli variables. They can aut sults meaningfully.			
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
Ü (2) +	Ü (2)					
		eessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
		mination (approx. 6o n	ninutes) or			
		(approx. 15 pages) ssessment: German ar	d /or English			
credita						
Allocat	ion of j	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachir	ng cycle	e: after announcement				
Referre	ed to in	LPOI (examination regulation	ons for teaching-degree progra	immes)		
Module	e appea	ars in				
Mactaria	ith a	Economathematics (()	IAALI VARS	concreted to April	am rog da	
waster's w	itii 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 338 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module t	itle			Abbreviation			
Empirical HR Research with Stata 12-M-EPF-161-mo1							
NA - d-1			Madula affanad ha				
	Module coordinator Module offered by holder of the Chair for Human Resource Management and Faculty of Management and Economics						
holder of Organisa		source Management and	Faculty of Manager	nent and Economics			
ECTS N	ECTS Method of grading Only after succ. compl. of module(s)						
5 n	numerical grade						
Duration	Module level	Other prerequisites	5				
1 semeste	er graduate						
Contents							
most imp learn, wit STATA.	ortant estimation proble	alforschung" ("Empirical Pe ems and their application i lems of personnel econom ss.	in the software pack	age STATA. In additio	on, students		
Intended	learning outcomes						
		le students to understand IA with a focus on problem		•	n program-		
Courses ((type, number of weekly contact	hours, language — if other than Ge	rman)				
Ü (2)							
Method o	of assessment (type, scope, reditable for bonus)	language — if other than German,	examination offered — if no	ot every semester, informat	ion on whether		
Language	er (approx. 10 pages) e of assessment: Germa ent offered: Once a year						
Allocatio	n of places						
by lot am number c	iong all applicants irresp	of applications exceed the pective of their subjects. (2 d in the same procedure. (lable.	e) Places on all cours	es of the module wit	th a restricted		
Additiona	al information						
Workload	d						
150 h	-						
Teaching	r cvcle						
	cycle: each semester		`				
Keferred	to in LPU I (examination reg	ulations for teaching-degree progra	ammes)				
Module a	appears in						
Master's	degree (1 major) Econor	nathematics (2016)					
Master's	degree (1 major) Busine	ss Management (2015)					
		Business and Economics (a					
		tional Economic Policy (20	-				
		anguage and Economy (20	016)				
	degree (1 major) Manag						
		tional Economic Policy (20					
	1 major Economathematics (2016)	Business and Economics (2	2019) • generated 19-Apr-2025 • ex	am, reg. da-	page 340 / 590		
	.,		r (120 ECTS) Wirtschaftsmathe	-	F=35 J46 / J90		

Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module	e title			Abbreviation	
Empirical Regional- and International Economic Research					12-M-ERA-161-m01
Module coordinator				Module offered by	
Dean o mics	f the Fa	aculty of Business Manag	ement and Econo-	Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5		rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Its				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
	-	n on intended learning o	utcomes available.		
		number of weekly contact hours, l		rman)	
V (2) +					
		Sessment (type, scope, langua ole for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
b) term c) portf Langua	i paper folio (a age of a	mination (approx. 60 to 9 (approx. 10 pages) on en pprox. 20 pages) ssessment: German and,	npirical analysis prep	pared by candidates	or
Allocat	ion of _l	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi					
		e: no courses offered			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	ummes)	
Module	e appea	ars in			
Master Master Master Master	's degr 's degr 's degr 's degr	ee (1 major) Economathe ee (1 major) Business Ma ee (1 major) China Busine ee (1 major) International	nagement (2015) ess and Economics (2 Economic Policy (20	15)	
Master	's degr	ee (1 major) China Langu	age and Economy (20	016)	

Module title					Abbreviation	
Compu	Computational Economics - Advanced Level 12-M-NGM-161-m01					
Module	e coord	inator		Module offered by		
holder of the Chair of Public Finance F			Faculty of Managen	nent and Economics		
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
ty etc.). field ar tribute	urse w . Provic nd fami betwe	ill mostly be concerned ling students with state liarising them with the en different generation nplete and how they ca	e-of-the-art techniques relevant literature, this s and also within gener	for quantitative mac course will teach st rations, how they ma	roeconomic researcl udents how such po y improve risk shariı	n in this very licies redis- ng when mar-
2. Solu	rammir tion te	abus: ng with FORTRAN and a chniques for dynamic p ysis with stochastic gro	rogramming problems			
Readin Lecture		will be provided.				
Intende	ed lear	ning outcomes				
(i) edit (ii) imp	and so lement	ing the course "Advanc lve stochastic econom small scale economic ax and social security	ic problems using adva models on the comput	nced numerical tech er;	niques;	c term.
Course	S (type, 1	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, lang ole for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
a) writt	en exa	mination (approx. 6o n	ninutes) or			
		(approx. 15 pages)				
	. <u> </u>	ssessment: German ar	id/or English			
Allocat	ion of	places				
Additio	nat inf	ormation				
 Warkla						
	Workload					
150 h						
Teachi Teachi						
		e: winter semester				
Keterre	a to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Madul		arc in				
Module		ars in ee (1 major) Economati	pematics (2016)			
	_	-				
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 343 / 590

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Empirio	al Indu	strial Organization			12-M-EIO-161-m01	
Module	e coord	inator		Module offered by		
holder	of the C	Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
 O E 2. Estim R M D D 3. Furth D 3. Furth U Intende The stu comes. one car a thoro dents w firms. T based o gers. A but will 	Antion of the present	vill become familiar with ment these methods in p derstanding of the so-cal ome familiar with method Il learn how to use such r estimated models to eval It that successfully comp	s d extensions vidual data regate data terfactual policy anal n modern empirical m methods used in esti oractice using statistic lled New Empirical In- ds used in estimating nodels to infer margin luate the effects of ch letes this course will it models in compute	ysis nethods in studying of mating demand and cal software. The lect dustrial Organization demand and imperfinal costs as well as of nanges in the compe- not only be able to re- r exercises. Furtherm	questions related to industry out- during exercises will learn how tures will help students to have n (NEIO) methodology. The stu- fect competition models among constructing policy simulations titive environment, such as mer- ead empirical academic papers nore, students will be able to trust and regulation.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	Ü (2)					
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) writt c) term Langua	a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

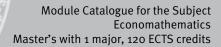


Module Catalogue for the Subject Economathematics Master's with 1 major, 120 ECTS credits

Economic Order and Social Policy

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module	Module title Abbreviation					
Labor M	larket	Economics			12-M-OEA-161-m01	
Module	coord	inator		Module offered by		
		unior Professorship of Mi	croeconomics, esp.		nent and Economics	
		Digitization	·			
		od of grading	Only after succ. con	npl. of module(s)		
-		rical grade				
Duratio		Module level	Other prerequisites			
1 semes		graduate				
ContentsThis course provides an overview of the field of modern labor economics. The course will cover the following to- pics:1. Labor supply2. Labor demand3. Human capital formation4. Compensating wage differentials5. DiscriminationThe course will consist of frontal teaching of the basic theoretical as well as empirical tools as well as a careful reading of some of the key scientific articles related to the outlined topics. Students are expected to read the scientific articles in advance and will be asked to discuss them in small groups during class. In addition, a dis- cussion of the articles will help illustrating how established scholars approach the core questions in modern la- bor economics and giving students an understanding of high quality empirical research.The main reference for the lecture is Cahuc and Zylberberg. (2004): "Labor Economics", 1st edition, Massachu- setts Institute of Technology. In addition, we will discuss well-published economic articles related to the single topics discussed in class.Intended learning outcomesThe aim of this course is to acquaint students with classical as well as modern topics in labor economics and to						
		pirical evidence.			nain econometric methods used	
		umber of weekly contact hours, la	anguage — if other than Ger	man)		
	of ass	essment (type, scope, langua; le for bonus)	ge — if other than German, d	examination offered — if no	ot every semester, information on whether	
b) term	paper	nination (approx. 60 min (approx. 15 pages) ssessment: German and/				
Allocati	on of p	laces				
Additio	nal info	ormation				
Workloa	Da					
150 h Teachin	a cycl	a				
reachill	Teaching cycle: no courses offered					

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module title			Abbreviation			
Theory of Social Policy				12-M-TSP-161-m01		
Module coordinator		Module offered by				
holder of the Chair of Labour Economics		ics	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
gns in t the epis shown which la science	he soc stemol why ex evel of es, i.e. J	fers an introduction to ial sciences. In the first ogical differences betw periments are paramou the causal hierarchy. F potential outcomes and	part a framework for u een association, interv int in generating causa inally, we will discuss t I directed acyclic graph	nderstanding causa rention and counterf I knowledge and wh wo widely used app ns.	lity is introduced. Sp actuals are explaine ich assumptions are roaches to causality	becifically, d. Then it is e needed for in the social
tal varia to answ ment oi	ables, a ver imp r the ef	art is devoted to the res and regression discont ortant questions in lab fect of children on fem ons each research desi	nuity. The emphasis is our economics such as ale labour supply and v	how these research the effects of a min vages.	designs are for exar imum wage increase	nple applied e on employ-
lecture. stion. F	The assumptions each research design requires in order to identify a causal effect will be at center stage of the lecture. Therefore the emphasis is to teach students <i>what</i> one needs to estimate in order to answer a given question. Further, the research designs are discussed such that students will be able to evaluate and apply these research designs to other questions and fields.					
Intended learning outcomes						
At the end of the course, students should be able to understand basic concepts and methods of causal infe- rence, as well as read, interpret, and assess the credibility of scientific publications. In addition, the course ser- ves as preparation for advanced statistics and econometrics courses.						
Courses (type, number of weekly contact hours, language — if other than German)						
V (2) +	Ü (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
b) term	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English					
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Economathematics (2016) Master's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Wirtschaftsmathematik - 2016				page 351 / 590		

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Compulsory Core Electives

(10 ECTS credits)

Module title					Abbreviation
Commo	on Euro	pean Labour Market			12-M-EW-161-m01
Module coordinator				Module offered by	
holder of the Chair of Labour Economics			S	Faculty of Managen	nent and Economics
ECTS	TS Method of grading		Only after succ. compl. of module(s)		
5	nume	umerical grade			
Duration Module level		Other prerequisites			
1 semester graduate					
Contents					
Migration has become a key issue in the political and public debate all over the world. Thus, economists increa- singly engaged in studying determinants and consequences of migration as it has a substantial impact on recei-					

ving and sending countries. This course offers an introduction to the key concepts of migration economics and will cover the following topics:

- 1) Migration Decision and Forms of Migration
- 2) Effects on Migration on Employment and Wages
- 3) Effects of Migration on Attitudes and Political Economy
- 4) Integration and Integration Policies
- 5) Refugee Migration
- 6) Impacts of Emigration

At the end of the course students are familiar with the basic theoretical and empirical concepts in the area of economics of migration. A special focus will be on the understanding of the identification of causal effects and the ability to connect links between the different areas of analysis.

The course will consist of frontal teaching of the basic theoretical as well as empirical tools as well as a careful reading of some of the key scientific articles related to the oulined topics (a reading list will be provided at the beginning of the semester). At the end of the semester, students will have the opportunity to present their term papers.

Intended learning outcomes

Solid background in Microeconomics and Econometrics is required.

Courses (type, number of weekly contact hours, language — if other than German)

 $\ddot{U}(2) + V(2)$

Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Master's degree (1 major) Applied Human Geography (2017)

Master's with 1 major	Economathematics (2016)	
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Module	e title				Abbreviation
Advanced Topics in Economic Policy					12-M-SPÜ-161-m01
Module coordinator				Module offered by	
holder	of the (Chair of Labour Economic	CS	Faculty of Manager	nent and Economics
ECTS	Metho	Method of grading Only after succ. compl. of module(s)			
5	nume	rical grade			
Duratio	on	Module level	evel Other prerequisites		
1 semester graduate					
Conten	Its				
Sozialp	olitisc	he Übungen is from now	on Experimental Ecor	nomics	
Intende	ed lear	ning outcomes			
	nic and				a profound unterstanding of how arch results in economic policy is
Course	S (type, r	number of weekly contact hours,	language — if other than Gei	rman)	
Ü (2)					
module is a) writt b) term	s creditab en exa paper	Sessment (type, scope, langua le for bonus) mination (approx. 60 mir (approx. 15 pages) ssessment: German and	nutes) or	examination offered — if n	ot every semester, information on whether
Allocat	-				
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e	-		
Teachir	ng cycle	e: no courses offered			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	immes)	
Module	e appea	ars in			
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)					

Module title			Abbreviation			
Social Insurance and the Welfare State			12-M-F3-161-m01			
Module coordinator			Module offered by			
holder of the Chair of Public Finance			Faculty of Managen	nent and Economics		
ECTS	Methe	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
This mo and pro retirem Readin Conten 1. Publi 2. The i 3. Socia	Description: This module discusses the economic justification for implementing social security systems in a market economy and provides students with deeper insights into this topic with the help of specific issues of public health and retirement policy. Reading: lecture notes provided by Chair. Contents: 1. Public intervention in insurance markets 2. The insurance function of social security 3. Social security and social morale					
5. Why	do we	l health insurance cont need a public pension pay-as-you-go financin	system?			
		ning outcomes	<u> </u>			
dation cuss th	After completing the module "Theorie der Sozialversicherung" students are able to explain the theoretical foun- dation of the social security system in a market economy. Using simple partial equilibrium models they can dis- cuss the financing and contract structure of the public health and pension system. Finally they are able to analy- ze the consequences of policy reforms.					
Courses (type, number of weekly contact hours, language — if other than German)						
V (2) + Ü (2)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Teaching cycle: winter semester						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016)						
Master's wi					page 357 / 590	

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbrevi					Abbreviation	
Human Resource Management and Industrial Relations12-M-HRM-161-m01					12-M-HRM-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair for Human Resource Management and				· · · ·	nent and Economics	
Organisation				anl of modulo(c)		
5	CTS Method of grading Only after succ. compl. of module(s) numerical grade					
Duratio	·	Module level	Other prerequisites	ites		
1 semester graduate						
Conten	nts					
technic	ques an s the di		the areas of human r		advanced theories, estimation ent and institutional frameworks	
		Human Resource Manage	ament & Industrial Re	lationships		
		employment contract [fo		aaonsmps		
		tivation [formal model]	1			
		ployee resistance agains	t reorganisations [en	npirical study]		
Chapter 4: The role of works councils [formal model]						
Chapter 5: Works councils and the employer wage structure [empirical study]						
Chapter 6: The behaviour of labour unions [formal model]						
Chapte	er 7: Lea	arning process of employ	ers [formal model and	d empirical study]		
Chapte	er 8: De	mographic challenges of	HRM [formal model a	and empirical study]		
Intend	ed learı	ning outcomes				
The aim of the lectures is to enable students to understand and apply advanced theories, estimation techniques and empirical results in the area human resource management and industrial relations on the basis of scientific literature.						
Course	S (type, n	number of weekly contact hours, I	anguage — if other than Ger	rman)		
V (2) +	Ü (2)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English						
Allocat	tion of p	olaces				
mes Bu mation China I	usiness I Systen Busines	Management, Internatio ns), Wirtschaftsmathema	nal Economic Policy (itik (Mathematics for l of 20 places will be	or Economics, Wirtsc Economics) and Chin allocated to student	of the Master's degree program- haftsinformatik (Business Infor- nese and Economics as well as s of other subjects; should the	

Master's with 1 major Economathematics (2016)

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
exchange program Business Management and Economics (2022)

Module title				Abbreviation			
Incentiv	ves in (Drganizations			12-M-AO-161-m01		
Module	coord	inator		Module offered by	Module offered by		
holder o Organis		Chair for Human Resour	ce Management and	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Content							
Based on the classical principal-agent theory, this course discusses methodological and empirical aspects of in- centives in organisations. It uses contents from advanced text books and original (mainly empirical) research ar- ticles.							
Outline	ofsyll	abus					
1. Princi	ipal-ag	ent theory					
2. Do to	p man	agers earn too much? (a	application)				
3. Perfo	rmanc	e-based payment					
4. Imple	ementa	tion of performance-ba	sed payment in compa	anies (application)			
5. Senic	ority pa	yment (with application	n)				
6. Finar	ncial in	centives to work after re	etirement (with applica	ation)			
7. Effici	ency w	ages (with case study)					
		tives (with case study)					
		ning outcomes					
necessa incentiv	ary eco /e syste	lire a working knowledg nometric background. T ems that are applied in e current controversies	This enables them to id the enterprise context	dentify the advantage , to make informed n	es and disadvantage nanagement analyse	es of different	
Courses	5 (type, n	umber of weekly contact hours	, language — if other than Ge	rman)			
V (2) + ĺ	Ü (2)						
		e essment (type, scope, langule for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether	
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English							
Allocati	ion of p	olaces					
Additio	nal inf	ormation	_				
Workloa	ad						
150 h							
Master's wit	th 1 major	Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmather		page 361 / 590	

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

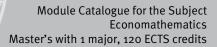
Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title			Abbreviation			
Work an	nd Info	mation			12-ITA-161-m01	
Module	coordi	nator		Module offered by		
Dean of mics	the Fa	culty of Business Manag	ement and Econo-	Faculty of Managem	nent and Economics	
ECTS	Metho	d of grading	Only after succ. com	pl. of module(s)		
5 numerical grade						
Duration	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content						
		scusses relevant princip nisational and process s			ss information processing and its	
Intendeo	d learn	ing outcomes				
sified in vestmen	a certa nt, and	ain way by participating i a company's strategy, th	n this module. For de le students will get to	ecisions in regards to know all the releva	es can be interpreted and clas- b human resources planning, in- nt concepts and interdependen- ed "fourth" factor of production.	
Courses	(type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)		
V (2)						
		essment (type, scope, language e for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English						
Allocatio	on of p	laces				
Addition	nal info	rmation				
Workloa	ad					
150 h						
Teaching	g cycle					
Teaching	g cycle	: no courses offered				
		POI (examination regulations	for teaching-degree progra	mmes)		
Module	Module appears in					
		e (1 major) Economather	natics (2016)			
Master's	s degre	e (1 major) Business Info	ormation Systems (20	016)		
	-	e (1 major) Business Ma				
	-	e (1 major) China Busine				
	-	e (1 major) International		-		
	-	e (1 major) China Langua		16)		
	-	e (1 major) Information S				
IMactor's	Master's degree (1 major) Information Systems (2022)					

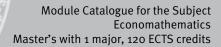




International Economics

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title			Abbreviation		
Interna	tional	Trade and the Multinatio	nal Firm		12-M-ITMF-161-m01
Module	e coord	inator		Module offered by	
holder	of the (Chair of International Eco	nomics	Faculty of Managem	nent and Economics
ECTS Method of grading Only after			Only after succ. com	pl. of module(s)	
5		rical grade			
Duratio		Module level	Other prerequisites		
	1 semester graduate Contents				
Conten					
scher-C trade. T the sta)hlin) fo The fina ndard r	ollowed by theories base	d on monopolistic an geneity and multinati	d oligopolistic comp	advantage (Ricardo and Heck- betition to explain intra-industry ermits the Armington model and
<u>Outline</u>					
l Ricard	lian Tra	de Theory			
II Hecks	scher-C	hlin Trade Theory			
III New	Trade 1	Theory: Intra-Industry Tra	de, Increasing Return	s to Scale, Imperfect	Competition
IV Firm	Hetero	geneity, Trade and FDI			
V The M	Aultina	tional Firm			
<u>Literatu</u>	<u>ire:</u>				
further	referer				detailed list of references with lecture. Material from the followi-
Helpma	an, E. (2	2011). Understanding Glo	bal Trade. Princeton	University Press.	
Feenstr Edition		(2016). Advanced Interna	ational Trade. Theory	and Evidence. Prince	eton University Press, Second
Caves,	R., R.W	. Jones and J.A. Frankel (:	2007). World Trade ai	nd Payments. Addisc	on Wesley
Bhagwa Press	ati, J., A	A. Panagariya and T. N. Sr	inivasan (1998). Lect	ures on Internationa	l Trade. Second Edition. MIT
Gandol	fo, G. (1998). International Trad	e Theory and Policy. S	Springer-Verlag, Berl	in and New York
Markus	en, J.R	., J.R. Melvin, W.H. Kaemp	ofer, K. E. Maskus (19	95). International Tra	ade. McGrawHill
Barba N Press	lavaret	ti, G. and A.J. Venables (2004). Multinational	Firms in the World E	conomy. Princeton University
Intende	ed lear	ning outcomes			
The students acquire the ability to critically understand the causes and drivers of world trade and the develop- ments of specialization patterns in the global economy. They learn to analyze, discuss and defend these deve- lopments and to apply the tools and methods to evaluate controversies associated with the ongoing deepening					

of the international division of labor, in particular the repercussions of the global economy on national economies.

Courses (type, number of weekly contact hours, language – if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module title			Abbreviation		
Trade P	Policy a	nd the World Trading Sy	stem		12-M-TP-161-m01
Module	e coord	inator		Module offered by	
holder	of the (Chair of International Eco	nomics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5		rical grade			
Duratio	Duration Module level Other prerequisites				
	semester graduate				
Contents					
trade p tas) an	dule st olicy co d argur	ontroversies. The main pa	art of the lecture deal licy interventions (th	s with trade policy in e terms of trade, stra	rading system as well as current struments (e.g. tariffs and quo- itegic trade policy, infant indu- addressed.
<u>Outline</u>	<u>)</u>				
1 The e	volutio	n of the world trading sys	stem and current issu	es	
2 Trade	e policy	instruments and their ef	fects under perfect co	ompetition	
3 The c	ompeti	tion effect of trade openi	ng		
4 Dome	estic di	stortions			
5 Interr	nationa	l market power and trade	e policy		
6 Politi	cal eco	nomy and the world trad	ing system		
<u>Literatu</u>	ur:				
The ma	in text	used is:			
Helpma setts.	an, E. u	nd P.R. Krugman (1989).	Trade Policy and Mar	ket Structure. The M	IT Press, Cambridge, Massachu-
The foll licy ma	-	monographs cover the ev	volution of the world	trading system and t	he evolution of ideas in trade po-
Bhagwa	ati, J. (2	2002). Free Trade Today,	Princeton University I	Press	
Bhagwa	ati, J. (2	2005). In Defense of Glob	alization. Oxford Univ	versity Press	
	-	o). Free Trade Under Fire, ther material)	Princeton University	Press, 5th Edition (a	s well as former editions partially
Irwin, D). (1996	5). Against the Tide. An In	tellectual History of F	Free Trade, Princeton	University Press
Basic re	efreshe	ers are			
Krugma 11th Ed		, M. Obstfeld und M. Mel	itz (2018), Internation	nal Economics. Theo	ry and Policy. Addison-Wesley,
Caves, Edition		. Jones und J.A. Frankel (:	2007), World Trade a	nd Payments. An Intr	oduction. Addison-Wesley, 10th

This literature is complemented by papers from scholarly journals.

Intended learning outcomes

Students acquire the ability to critically understand the effects and issues associated with the use of trade policy instruments. They are enabled to understand and evaluate the causes and consequences of interventions in international trade on the aggregate economy, producers and consumers, the foreign trading partners and the world trading system both analytically as well as in an intuitive manner. Students also acquire the scientific knowledge to grasp the factors determining the structure and dynamics of the world trading order.

Courses (type, number of weekly contact hours, language - if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 120 minutes) or

b) term paper (approx. 15 to 20 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) Media Communication (2016)

Master's degree (1 major) China Language and Economy (2016)

Master's degree (1 major) Media Communication (2018)

Master's degree (1 major) Media Communication (2019)



Compulsory Core Electives

(10 ECTS credits)

Module title			Abbreviation	
Advanced Mac	roeconomics			12-M-MFF-161-m01
Module coordi	nator		Module offered by	
holder of the C	hair of International Eco	nomics	Faculty of Managem	nent and Economics
ECTS Metho	d of grading	Only after succ. com	pl. of module(s)	
5 numerical grade				
Duration	Module level	Other prerequisites		
1 semester	graduate			
Contents				
<u>Content</u>				
and a review of mans model, o	f the Solow-growth mode n endogenous growth th is of this framework invo	el. The lecture then fo leory and it puts the r	cuses on the infinite oles of human capit	of the facts of long-run growth e-horizon Ramsey-Cass-Koop- al and institutions under scruti- es and the environment will be
<u>Outline</u>				
l Facts and the	Solow Growth Model			
ll Infinite-Horiz	on Ramsey-Cass-Koopm	ans model		
III Endogenous	Growth			
IV Human Capi	tal, Social Infrastructure	and Beyond		
V Applications	(Urban and regional gro	wth; Growth, resourc	es and the environm	ent)
Literature:				
The course dra	ws strongly on the textb	ook:		
David Romer, A	Advanced Macroeconom	ics, 4 th edition, McGra	aw-Hill Irwin.	
We will use jou	Irnal articles and researc	h papers at several p	arts of the lecture.	
Intended learn	ing outcomes			
This enables th of incomes, to	nem to identify the key fo	orces that determine that all the statement of the statem	the determinants of	advanced macroeconomics. income levels and growth rates valuate current controversies and
Courses (type, nu	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + Ü (2)				
Method of ass module is creditable		ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term paper (nination (approx. 60 to 9 (approx. 15 pages) ssessment: German and/			
Allocation of p		-		

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title			Abbreviation		
Econon	nic Geo	graphy			12-M-EG-161-m01
Module	e coord	inator		Module offered by	
holder	of the (Chair of International Eco	nomics	Faculty of Managen	nent and Economics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5		rical grade			
	Duration Module level Other prerequisites 1 semester graduate				
Conten		graduate			
Conten					
cation and city	of econ y syste	omic activity in space. Th ms, and the economic ge	ne main parts of the l	ecture cover the fund	over key forces driving the allo- ctioning and evolution of cities
l Motiva	ation a	nd Facts			
II Locat	ion Bas	sics			
- Forces	s Shapi	ng the Location of Econo	mic Activity in Space		
- Some	Intelle	ctual Background			
III Urba	n and I	Regional Economics			
- The S	patial S	Structure of Cities			
- City S	ystems				
III New	Econor	nic Geography			
- From 1	the Nev	v Trade Theory to the Nev	v Economic Geograph	ıy	
- Footlo	ose Ca	pital Model and Policy A	oplications		
- Core F	Periphe	ry Models and Policy App	olications		
- Empir	ics				
<u>Literatı</u>	ure:				
		es a combination of textb 6 (current and previous vo			ne Handbook of Urban and Regio- re:
	Brakman, W., H. Garretsen and Ch. van Marrewijk, 2009, The New Introduction to Geographical Economics, Cam- bridge University Press				
Baldwi cy, Prin			aviano and F. Robert [.]	-Nicoud, 2003, Econ	omic Geography and Public Poli-
		Th. Mayer and J.F. Thisse, ity Press	, 2008, Economic Geo	ography. The Integra	tion of Regions and Nations, Prin-
Fujita,	M., P.R.	. Krugman and A.J. Venab	les, 1999: The Spatia	al Economy, MIT Pres	S

UNIVERSITÄT WÜRZBURG

Fujita, M. and J.-F. Thisse (2013). Economics of Agglomeration. Cities, Industrial Location and Regional Growth. Cambridge University Press.

Krugman, P.R., 1991, Geography and Trade, MIT Press

Intended learning outcomes

Students acquire a knowledge of the forces which determine the allocation of economic activity in space and they learn to apply fundamental models of cities, city systems and of regional agglomerations to understand and analyze policy issues involving local, regional and international policy questions both analytically and in an economic intuitive way.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

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Additional information

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Workload

150 h Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation		
Moneta System		icy, Foreign Exchange N	Aarkets, and the Intern	national Monetary	12-M-EG2-161-m01		
Module	e coord	linator		Module offered by			
		Chair of Monetary Econc Markets	omics and Internatio-	Faculty of Manager	nent and Economics		
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)			
5	nume	rical grade		-			
Duratio	on	Module level	Other prerequisites	;			
1 seme	ster	graduate					
Contents							
The for	eign ex oning o			players and evolution	on; FX transactions; hedging and		
Exchange rate economics: Theoretical background and empirical validity of covered interest parity (CIP), uncovered interest rate parity (UIP) and purchasing power parity (PPP); Monetary approach: Flexible price monetary model and sticky price (Dorn- busch-) overshooting model; Balassa-Samuelson effect; FX valuation via the PPP and the macroeconomic balan- ce approach; Real effective exchange rates; Empirical validity of the exchange rate theories; Exchange rates and the current account. Exchange rate regimes and monetary policy in open economies: Classification of exchange rate regimes; the policy trilemma in open economies; historical development of the							
international monetary system; central bank interventions on the FX market. Modelling open economy macroeconomics at the intermediate level: Implications of the Mundell-Fleming model for monetary and fiscal policy under fixed and flexible exchange ra- tes. The BMW (IS-MP-PC) model of the open economy and its implication for monetary and fiscal policy under fixed							
and flexible exchange rates; optimum currency areas in the BMW model and in practice. Currency crises: International experience with currency crises since the 1970s; modelling currency crises within the Mundell-Fle- ming framework.							
Manag	ed-floa	ting as a solution for th	e policy trilemma.				
Intend	ed lear	ning outcomes					
By completing this course, students receive a profound understanding of the functioning of foreign exchange markets, the drivers of exchange rate movements and some exchange rate valuation methods used in practice. Next to a profound knowledge of exchange rate theory the course highlights its practical applicability, e.g. as an investment strategy. In the second part of the course students learn the principles of monetary policy in open economies, including its trade-offs and risks like currency crises. Students will be able to analyze these issues based on theoretical models as well as the international historical experience.							
Course	S (type, 1	number of weekly contact hours	, language — if other than Ge	rman)			
Ü (2) +	V (2)						
		s essment (type, scope, langu ble for bonus)	uage — if other than German,	examination offered — if no	ot every semester, information on whether		
a) written examination (approx. 60 minutes) or b) term paper (approx_15 pages)							

b) term paper (approx. 15 pages) Master's with 1 major Economathematics (2016)

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Wirtschaftsmathematik - 2016

Language of assessment: German and/or English

Allocation of places

30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module title			Abbreviation		
Europea	an Mac	roeconomic Policy			12-M-EMP-161-m01
Module	coord	inator		Module offered by	
holder nal Fina		Chair of Monetary Econon Markets	nics and Internatio-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5					
Duratio		Module level graduate	Other prerequisites		
Conten		Sidduite			
In parti	cular, t	he course outline is as fo	llows:		
I. Targe	ets of m	acroeconomic policy			
II. The r	mechai	nics of the two core macr	oeconomic models		
a. The c	lassica	al model of a self-stabiliz	ing corn economy		
b. The k	Keynes	ian model of a monetary	economy with inhere	nt instability	
c. The f	inancia	al system and banks in th	e two models		
III. The	diverg	ing policy implications o	f the two paradigms		
a. Unen	nploym	ient: wage rigidities versi	us rationing of the lat	oor market by the go	ods market
b. Gove	rnmen	t debt: Crowding out vers	sus Modern Monetary	r Theory (MMT)	
c. Inflat	ion: qu	antity theory versus Phil	lips curve		
d. The i	ncomp	atibility of the two worlds	5		
IV. A siı	mple IS	5/MP/PC model			
V. The r	noneta	ry policy of the ECB			
a. The r	nandat	e of the ECB and possibl	e trade-offs with une	mployment and finar	ncial stability
b. Conv	rention	al/unconventional instru	ments of the ECB / TI	he risk of fiscal domi	nance
c. ECB s	strateg	y and climate policy			
d. The t	hreat c	of deflation and the Zero-	Lower Bound		
VI. The	difficu	lt task of coordinating 19	independent nation	al fiscal policies in t	he EMU
a. Spec	ific cha	allenges due to lack of po	litical integration: La	ck of coordination ve	ersus lack of fiscal discipline
b. The l	imitati	ons set by Stability and G	Frowth Pact		
c. The r	ational	e of fiscal rules: Maastric	cht Treaty, Fiscal Com	pact/Debt Brake, Go	olden Rule / reform proposals
VII. Spe	ecific El	MU topics			
a. Is the	e EMU a	an optimum currency are	a?		

b. The financial crisis and the euro crisis: The dismal performance of the ECB until 2012 and the paradigm change by Mario Draghi ("Whatever it takes")

c. The ECB in the Corona crisis and Next Generation EU

Intended learning outcomes

By the end of the course, students will have gained a basic understanding of European macroeconomics.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or

b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Applied Human Geography (2017) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)

Module title Abbreviation			Abbreviation		
Europea	an Com	petition Policy			12-M-WPE-161-m01
Module	coord	inator		Module offered by	<u> </u>
		Chair of Industrial Econor	nics	¥	nent and Economics
ECTS		od of grading	Only after succ. com	· · · · · · · · · · · · · · · · · · ·	
5		rical grade		•	
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Contents				
Outline of syllabus: 1. Legal environment, competition laws 2. Market definition • Qualitative methods • Simple quantitative methods • Hypothetical monopoly test 3. Horizontal agreements and collusion: repeated games and factors affecting likelihood of collusion 4. Horizontal mergers and collusion • Economic theory • Efficiency effects • Coordinated effects 5. Vertical relations and contracts • Economic analysis of contracts • "More economic approach" 6. Abuse of dominant position • Classification of abusive conduct • Economic analysis of abusive conduct and theory of harm					
		ll be taught in English.			
Intended learning outcomes After completion of the module students can use the advanced concepts introduced in the lecture of competiti- on policy, including the legal framework, the trace models and methods for the study of competition policy issu- es, as well as understand the approach of European competition policy in high profile cases. When they are con- fronted with practical problems, they can refer to these cases, and the same logic to practical examples apply by draining the relevant economic theories that identify variables to be measured and methodologies for assessing, and based on that adequate conclusions for appropriate cases. They will sufficiently understand the subject in order to open up that build upon literature in journals and being able to think critically.					
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2)					
			ge — if other than German, e	examination offered — if no	ot every semester, information on whether
b) term Langua	a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of p	olaces			
20 places. There are no restrictions with regard to available places for students of the Master's degree program-					

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) Media Communication (2016)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Media Communication (2018)
Master's degree (1 major) Media Communication (2019)

Module title			Abbreviation		
Europea	an Pub	lic Finance			12-M-EFP-161-m01
Module	coord	inator		Module offered by	
		Chair of Public Finance		Faculty of Managem	nent and Economics
ECTS		od of grading	Only after succ. com	, ,	
5		rical grade			
Duratio					
1 semes	ster	graduate			
Contents					
The course aims at introducing the main public finance issues in the European Union. Students will learn how the revenues of the Union are generated and how they are spent. We will discuss the motivation and implications of the Brexit decision and various coordination problems with respect to public debt, taxation and environmental policy. Economic policy is discussed with simple models, which highlight the central problems.					
Course	conten	ts:			
1. The E	uropea	an Union: History and Ins	titutions		
2. The E	Budget	of the European Union			
3. Econ	omic A	nalysis of the Brexit Proc	ess		
4. Sove	reign D	ebt, Financial Crisis and	Fiscal Integration in t	he EMU	
5. Tax C	ompet	ition or Tax Coordination	in Europe?		
6. Euroj	pean C	limate Policy: Emission T	rading and Green Dea	al	
Intende	d learr	ning outcomes			
	condu	ct in the EU. They are abl		•	e policy issues, institutions and o discuss and analyze more spe-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (2) +	V (2)				
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term	paper	nination (approx. 60 min (approx. 15 pages) ssessment: German and/			
Allocati	ion of p	olaces			
mes Bu mation China B	20 places. There are no restrictions with regard to available places for students of the Master's degree program- mes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Infor- mation Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.			haftsinformatik (Business Infor- nese and Economics as well as s of other subjects; should the	
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachin	ig cycl	9			
Teaching cycle: summer semester					

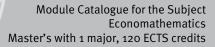
Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) Media Communication (2016)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Media Communication (2018)
Master's degree (1 major) Media Communication (2019)

Module title			Abbreviation			
Public	Debt				12-M-F2-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of Public Finance			Faculty of Managem	nent and Economics		
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
Description: The module provides an introduction to some specific issues of public debt that are in the focus of the public and scientific debate. Reading: lecture notes provided by Chair.						
1. Meas 2. Grow 3. Inter 4. Publ 5. Neut	Outline of syllabus: 1. Measurement of public debt 2. Growth effects of public debt 3. Intergenerational effects of public debt 4. Public debt in open economies 5. Neutrality of public debt 6. Political economy of public debt					
-		ning outcomes				
measu quence	rement es using n neutra	ing the course "Nationa concepts and problem g simple equilibrium m ality and know the polit s.	s of public debt. They odels of closed and op	can discuss the grow en economies. They	th and distributiona can evaluate the rele	ll conse- evance of Ri-
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, lang ele for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) term	paper	mination (approx. 60 m (approx. 15 pages) .ssessment: German ar				
Allocat	ion of _l	places				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)		
Module						
Master	's degr	ee (1 major) Economatl	nematics (2016)			
Master's w	ith 1 majo	r Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 383 / 590

Julius-Maximilians-UNIVERSITÄT WÜRZBURG



Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Econor	netrics	1			12-M-OE1-161-m01	
Module coordinator				Module offered by		
holder	of the (Chair of Econometrics		Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	Its					
Description: This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the model's explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions 10. Dummy variables						
Intende	ed lear	ning outcomes				
The students acquire knowledge of the basics, concepts and methods used in the classical linear regression mo- del and understand the role of econometrics in science and data analysis. In particular, they learn how to analy- tically derive, calculate and interpret the coefficients, standard errors and p-values of a classic regression output of the multiple regression model. Furthermore, they are able to formally state and motivate the assumptions and properties of OLS and know how to deal with transformed and dummy variables. Additionally, students will be able to test multiple linear restrictions on the parameters and will be able to apply these tests to real economic, business and social science questions. The competences acquired in this course serve as a prerequisite for "Econometrics II", "Econometrics III", "Micro- econometrics" und "Financial Econometrics".						
Course	S (type, r	number of weekly contact hou	rs, language — if other than Ge	rman)		
V (2) + Ü (2)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
b) term Langua	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	olaces				

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation
Common European Labour Market					12-M-EW-161-m01
Module coordinator				Module offered by	
holder of the Chair of Labour Economics			S	Faculty of Managen	nent and Economics
ECTS	S Method of grading Only after succ. cor		Only after succ. con	mpl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 semester graduate					
Contents					
Migration has become a key issue in the political and public debate all over the world. Thus, economists increa- singly engaged in studying determinants and consequences of migration as it has a substantial impact on recei-					

ving and sending countries. This course offers an introduction to the key concepts of migration economics and will cover the following topics:

- 1) Migration Decision and Forms of Migration
- 2) Effects on Migration on Employment and Wages
- 3) Effects of Migration on Attitudes and Political Economy
- 4) Integration and Integration Policies
- 5) Refugee Migration
- 6) Impacts of Emigration

At the end of the course students are familiar with the basic theoretical and empirical concepts in the area of economics of migration. A special focus will be on the understanding of the identification of causal effects and the ability to connect links between the different areas of analysis.

The course will consist of frontal teaching of the basic theoretical as well as empirical tools as well as a careful reading of some of the key scientific articles related to the oulined topics (a reading list will be provided at the beginning of the semester). At the end of the semester, students will have the opportunity to present their term papers.

Intended learning outcomes

Solid background in Microeconomics and Econometrics is required.

Courses (type, number of weekly contact hours, language — if other than German)

 $\ddot{U}(2) + V(2)$

Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

20 places. There are no restrictions with regard to available places for students of the Master's degree programmes Business Management, International Economic Policy or Economics, Wirtschaftsinformatik (Business Information Systems), Wirtschaftsmathematik (Mathematics for Economics) and Chinese and Economics as well as China Business and Economics. A total of 20 places will be allocated to students of other subjects; should the number of applications exceed the number of available places, these places will be allocated by lot.

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Master's degree (1 major) Applied Human Geography (2017)

Master's with 1 major Economathematics (2016)	
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Module	Module title Abbreviation					
Empiri	cal Reg	ional- and International	Economic Research		12-M-ERA-161-m01	
Module coordinator				Module offered by	<u> </u>	
Dean o mics	of the Fa	aculty of Business Manag	ement and Econo-	Faculty of Manager	nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
No info	ormatio	n on contents available.				
Intend	ed lear	ning outcomes				
		n on intended learning o	utcomes available.			
		number of weekly contact hours, l		rman)		
V (2) +			,			
		s essment (type, scope, langua	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
b) term c) portf Langua	n paper folio (a age of a	mination (approx. 60 to 9 (approx. 10 pages) on en pprox. 20 pages) assessment: German and	npirical analysis prep	pared by candidates	or	
Allocat	lon of	places				
 Additic	nal inf	ormation				
	matim	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
		e: no courses offered				
		LPO I (examination regulation	s for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015)						
	-	ee (1 major) China Langu		-		

Module title				Abbreviation		
Topics	in Inte	national Economics 1			12-M-ATIÖ1-161-mo	1
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Man	agement and Econo-	Faculty of Managen	nent and Economics	
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
Conten	<u>t</u>					
de, and	Cities	; Outsourcing, Offshori	mics and economic ge ng and Multinational F iment; Trade, Multinati	irms; Competition of	Locations, Jurisdicti	ions and Sy-
<u>Literatu</u>	ire:					
Peer-re	viewed	articles and/or monog	graphs.			
Intende	ed leari	ning outcomes				
learn ai	nd app and re	ly research methods. T search both in written	earch, students are ena he seminar style of the and in oral form. Stude	course teaches ther	n to present their ow	vn seminar
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ge	rman)		
V (2) + Course		lternatively WS instead	d of V + Ü			
		essment (type, scope, lang	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
a) writte b) term c) portf	en exar paper olio (ap	nination (approx. 6o to (approx. 15 pages) or oprox. 20 pages) ssessment: German ar				
Allocati			<u></u>			
	nal inf	ormation				
Worklo	ad		,			
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		ee (1 major) Economatl	nematics (2016)			
	-	ee (1 major) Business N				
Master'	s degr	ee (1 major) China Busi	iness and Economics (a	2016)		
Master's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Wirtschaftsmathematik - 2016 page 390 / 55					page 390 / 590	



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Topics	in Inte	mational Economics 2			12-M-ATIÖ2-161-m0	91
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Man	agement and Econo-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade		· · · ·		
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Contents						
Conten						
de, and	Cities	in international econo Outsourcing, Offshori ization and the Environ	ng and Multinational F	irms; Competition of	Locations, Jurisdicti	ons and Sy-
<u>Literatu</u>	<u>ire:</u>					
		articles and/or monog	graphs.			
Intende	ed leari	ning outcomes				
learn ai	nd app and re	rrent cutting-edge rese ly research methods. T search both in written a eers.	he seminar style of the	course teaches ther	n to present their ow	n seminar
Courses	S (type, n	umber of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +						
		Iternatively WS instead				
		e ssment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) term c) portf	paper olio (aț	nination (approx. 60 to (approx. 15 pages) or oprox. 20 pages) ssessment: German an				
Allocat	-					
Additio	nal inf	ormation				
Worklo	ad					
150 h						
	ng cycl	9				
Teaching cycle Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
 Module appears in						
		ee (1 major) Economatł	nematics (2016)			
	-	ee (1 major) Business N				
	-	ee (1 major) China Busi		2016)		
Master's wi						page 392 / 590



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Topics	in Inter	mational Economics 3			12-M-ATIÖ3-161-mo	91
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Man	agement and Econo-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade		-		
Duratio		Module level	Other prerequisites	;		
1 seme	ster	graduate				
Contents						
Conten	<u>t</u>					
de, and	Cities	; Outsourcing, Offshori	mics and economic ge ng and Multinational F iment; Trade, Multinati	irms; Competition of	Locations, Jurisdicti	ons and Sy-
<u>Literatu</u>	ire:					
Peer-re	viewed	articles and/or monog	graphs.			
Intende	ed learr	ning outcomes				
learn ai	nd app and re	ly research methods. T search both in written	earch, students are ena he seminar style of the and in oral form. Stude	course teaches ther	n to present their ow	n seminar/
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ge	rman)		
V (2) + Course	• •	lternatively WS instead	d of V + Ü			
Method	l of ass	•	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
a) writte b) term c) portf	en exar paper olio (ap	nination (approx. 60 to (approx. 15 pages) or oprox. 20 pages) ssessment: German ar				
Allocat	-		<u></u>			
	<u></u>					
Additio	nal inf	ormation				
	nat mit					
Worklo	ad					
	au					
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
 Module appears in						
		ee (1 major) Economatl	rematics (2016)			
	-	ee (1 major) Economati ee (1 major) Business N				
			iness and Economics (a	2016)		
					page 394 / 590	



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation
Advanc	ed Mic	roeconomics			12-M-AM-161-m01
Module	e coord	inator		Module offered by	
holder formati		Chair for Economics, Cont nomics	tract Theory and In-	Faculty of Managen	nent and Economics
ECTS Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
lysis an al decis riskless and lim Through and tall (e.g., di it will a introdu ant tha The exp • N • Je Intende	In a nutshell, microeconomic theory considers the behavior of individual economic agents and builds from this foundation to a theory of aggregate economic outcomes, which then can be applied for conducting welfare ana- lysis and giving policy advice. This lecture addresses the core building block of this thought complex: individu- al decision making and behavior. Specifically, students will come to understand in detail the standard models of riskless consumer choice, choice under risk and intertemporal choice and learn about the empirical challenges and limitations of these models. Throughout the lecture, we will work with precise mathematical formalizations of the ideas that we want to think and talk about. In consequence, a solid understanding of the mathematical toolbox of standard microeconomics (e.g., differential calculus and constrained optimization; basic set theory; integration by parts) will be helpful as it will allow to focus on the underlying economic intuition. However, every required mathematical concept will be introduced and explained along the way, such that a strong interest in formal economic analysis is more import- ant than an advanced mathematical background. The exposition is primarily based on the standard graduate textbooks • Mas-Colell, Whinston and Green (1995): "Microeconomic Theory" • Jehle and Reny (2001): "Advanced Microeconomic Theory" Hatted learning outcomes After completing the course students will be able to				
		e involved methods to gi ze in which real life situat			
_		umber of weekly contact hours, l			
V (2) +					
		eessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, information on whether
b) writt c) term Langua	a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

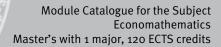
Master's degree (1 major) International Economic Policy (2015)



Entrepreneurship and Management

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation	
Entrep	reneurs	ship and Management 1			12-M-UGF1-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Entrepreneurship	and Strategy	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5 numerical grade						
Duratio		Module level	Other prerequisites			
1 seme		graduate				
This mo knowle	odule is dge us		working (or research	ning) in the field of co	eurship. It provides you with prporate innovation and entrepre-	
(1) Intro	oductio	n to corporate entrepren	eurship			
(2) Ant	eceden	ts and forms of corporate	e entrepreneurship			
(3) Cor	porate	strategy and corporate er	ntrepreneurship			
(4) Org	anizati	onal structure and corpo	rate entrepreneurship)		
(5) Hun	nan res	ource management and	corporate entreprene	urship		
(6) Bui	lding sı	upportive organizational	cultures			
(7) Enti	reprene	eurial control systems				
(8) Ent	reprene	eurial leadership				
(9) The	corpor	ate entrepreneur as a ch	ampion and diploma	t		
(10) Th	e pay-o	ff from corporate entrepr	eneurship			
(11) Co	rporate	venture capital				
(12) Co	rporate	e entrepreneurship in nor	profit and governme	nt organizations		
(13) Un	iversiti	es and academic spin-of	fs			
		and Q&A				
Intended learning outcomes						
 Educational aims Clarify the role of corporate entrepreneurship Explain theoretical concepts and mechanisms behind corporate entrepreneurship Enable students to critically appraise alternative approaches to corporate entrepreneurship Enable students to evaluate the boundaries and risks of corporate entrepreneurship 						
Learning outcomes						
On suc	On successful completion of this module students will be able to:					
• A • N	∖ssess† ∕lake ju	and evaluate concepts rel the role of corporate entr dgements about the orga atically choose between o	epreneurship for creatinizational and mana	ating and sustaining operial implications o	competitive advantage of corporate entrepreneurship	

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	ta record Master (120 ECTS) Wirtschaftsmathematik - 2016	

Courses (type, number of weekly contact hours, language – if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or

- b) oral examination of one candidate each (approx. 30 minutes) or
- c) presentation (approx. 30 minutes) and written elaboration (10 to 15 pages) or

d) term paper (15 to 20 pages) or

e) portfolio (maximum 20 pages)

Language of assessment: German and/or English

Allocation of places

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	Module title Abbreviation					
Entrepreneurship and Management 2 12-M-UGF2-161-m01					12-M-UGF2-161-m01	
Module	coord	inator		Module offered by	<u> </u>	
holder	of the C	Chair of Entrepreneurship	and Strategy	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5		rical grade				
Duration Module level Other prerequisites						
1 semester graduate Contents						
This the porate private chelor-	eory-leo strateg or pub level m	y—essential for anyone a lic sector. The module go odules.	aspiring to take on lea bes beyond basic kno	adership roles in the wledge about strate	vledge and skills related to cor- ir future career, may it be in the gic management provided by ba-	
(1) Dev	eloping	strategies in pursuit of o	competitive advantag	e		
(2) Corț	oorate	diversification				
(3) Vert	ical int	egration and outsourcing	5			
(4) Mer	gers &	acquisitions				
(5) Dyn	amic st	rategies				
(6) Coo	perativ	e strategies				
(7) Corp	oorate s	spin-offs and spin-outs				
(8) Inte	rnation	alization strategies (I)				
(9) Inte	rnation	alization strategies (II)				
(10) Str	ategic	change				
(11) Coi	porate	strategies and new tech	nologies			
(12) Co	rporate	governance and corpora	te social responsibil	ity		
(13) Co	rporate	communication and cris	is management			
		and Q&A				
Intended learning outcomes						
 Educational aims Clarify the role of corporate strategy Explain theoretical concepts and mechanisms behind corporate strategy Enable students to critically appraise alternative approaches to corporate strategy Enable students to evaluate the boundaries and risks of corporate strategy 						
Learning outcomes						
On suc	cessful	completion of this modu	lle students will be a	ble to:		
• C	 Assess the role of corporate strategy for creating and sustaining competitive advantage Create and evaluate concepts related to corporate strategy Make judgements about the organizational and managerial implications of corporate strategy 					

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	ta record Master (120 ECTS) Wirtschaftsmathematik - 2016	

Systematically choose between different routes of action

Courses (type, number of weekly contact hours, language - if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or

b) oral examination of one candidate each (approx. 30 minutes) or

c) presentation (approx. 30 minutes) and written elaboration (10 to 15 pages) or

d) term paper (15 to 20 pages) or

e) portfolio (maximum 20 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)



Compulsory Core Electives

(10 ECTS credits)

Module title					Abbreviation
Employment Law					12-M-AFW-161-m01
Modul	Module coordinator			Module offered by	
Dean of the Faculty of Business Management and Eco mics			gement and Econo-	Faculty of Management and Economics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duration Module level Oth		Other prerequisites			
2 semester graduate					
Conter	Contents				

Contents: employment and labour law and works constitution law incl. collective agreement law

Employment and Labour law

Legal sources of employment and labour law

Definitions, employment and labour law, employees

The employment contract

- Job application, permissible and impermissible questions in job interviews, consequences of lying, contesting the employment contract
- General Equal Treatment Act, claims for damages by applicants
- Conclusion of an employment contract, form, evidence under the Law of Proof of Substantial Conditions Applicable to the Employment Relationship
- Contents of the employment contract, company practice, overall commitment, reservation of the right of voluntariness and revocation
- General terms and conditions of business and control of terms and conditions of employment, invalid clauses and their consequences
- Limitation of the term of the employment contract, fixed term employment contracts

Rights and duties arising from the employment relationship

- Primary and secondary duties
- Employer's right to issue instructions, permissible and impermissible instructions
- Sickness, obligations to report and provide evidence under the Continued Remuneration Act
- Secondary employment, prohibition of competition, duty of confidentiality, occupational health and safety
- Granting of holiday leave
- Continued payment of wages in the event of illness, restrictions

Severe disability, special rights and protection against dismissal

Working hours and the Working Hours Act

The warning, formal and material requirements, consequences

Termination of employment

- Termination agreement
- Termination of employment
- Formal requirements
- Ordinary and extraordinary termination by the employer •
- Behavioral termination
- Person-related (illness-related) dismissal

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- Dismissal for operational reasons
- Special protection against dismissal

Works constitution law incl. collective bargaining law

Legal sources of works constitution law

Definitions, company, works council, employee

The works council and its role

- Works council elections
- Start, end, duration of term of office
- Legal status of members, honorary office, leave of absence, special protection against dismissal
- Entitlement for training, works council costs
- Works meetings
- General works council, group works council, youth/apprentice representation

Material co-determination of the works council, participation

- Information rights (access to gross pay roll, expert advice)
- Consultation rights (consultation before each dismissal, right to object)
- Consultation rights (involvement of the economic committee, changes in operations)

Co-determination in the narrower sense

- Rights of consent and objection (staff questionnaire, selection guidelines, recruitment, transfers)
- Refusal of consent, legal proceedings Substitution of consent

Co-determination rights

- Enforceable co-determination, conciliation board, composition, procedure, decision
- Mandatory co-determination rights of works council, e.g. regarding
- Conduct of the workplace (smoking and alcohol bans, formalized sick leave talks, occupational integration management)
- Working hours, breaks, shift and flexi-time models, overtime, short-time work
- Holidays, company holidays
- Technical equipment for monitoring (time recording, access systems, video surveillance, telephone and internet use, skills database)
- Occupational health and safety
- Social facilities (canteen, company kindergarten)
- Company wage structure, remuneration (piece rates, bonuses)
- Company changes, reconciliation of interests and social plan

Collective bargaining law

Definition, contractual and normative part, legal effect

Application of collective agreements, parties of collective agreements

Dynamic and static clauses referring to a collective agreement

Collective agreement and company agreements, blocking effect of collective agreement

Collective arbitration board in cases of compulsory works council co-determination

Intended learning outcomes

At the end of this course, students will have the following competences:

Master's with	1 major	Economathematics	(2016)	

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Students gain solid basic knowledge of employment and labour law, the works council and its tasks and an overview of collective agreement law. At the same time, methodically and substantively sound legal knowledge is conveyed and practical relevance is established with case studies and current case law.

By working on an exam in the form of a legal opinion, the students are taught to solve a demanding legal issue with legal problems in a given time. Within a narrow thematic field and a time-limited framework, they are able to work on a legal issue in a well-founded and largely independent manner.

Within the framework of the term paper on a judgement of the Federal Labour Court, the students deal with a concrete case and the case law of the highest German labour court. They are familiarised with the methods of legal work and are enabled to work independently in a problem-solving manner. In addition to understanding the facts of the case and the legal problems, they will focus primarily on the consequences of the judgement for their practice. Here, the legal knowledge imparted will be implemented with a practical approach and the opportunity to creatively develop their own recommendations on how to deal with the judgement. In addition, the students present the case and their own conclusions for practice. In the group discussion, the other students have the opportunity to gather further knowledge and actively participate in the exchange of opinions on current judgements and case law.

The knowledge imparted is relevant for a wide range of professional fields of activity and is especially valuable for students who will work in the field of human resources or are interested in the field of employee management.

Courses (type, number of weekly contact hours, language – if other than German)

S (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

[a) written examination (approx. 120 minutes) and b) talk (approx. 30 minutes), weighted 3:2] or [a) written examination (approx. 120 minutes) and c) presentation (approx. 15 minutes) and d) written elaboration of presentation (approx. 10 pages), weighted 3:1:1]

Allocation of places

30 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information

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Workload

150 h

Teaching cycle

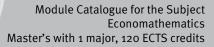
Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Master's degree (1 major) Economathematics (2016)						
Master's degree (1 major) Business	Management (2015)					
Master's degree (1 major) China Bus	iness and Economics (2016)					
Master's degree (1 major) Internation	nal Economic Policy (2015)					
Master's degree (1 major) China Lan	guage and Economy (2016)					
Master's degree (1 major) Management (2018)						
Master's degree (1 major) China Business and Economics (2019)						
Master's degree (1 major) China Language and Economy (2019)						
Master's degree (1 major) China Business and Economics (2021)						
Master's degree (1 major) China Language and Economy (2021)						
Master's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Wirtschaftsmathematik - 2016						
ta record master (120 ECIS) Witsenatismathematik 2010						

Julius-Maximilians-UNIVERSITÄT WÜRZBURG



Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Advanced Microeconomics 12-M-AM					12-M-AM-161-m01	
Module	e coord	inator		Module offered by		
holder formati		Chair for Economics, Cont nomics	tract Theory and In-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5 numerical grade						
Duratio	n	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	ts					
lysis an al decis riskless and lim Througl and tall (e.g., di it will a introdu ant tha The exp • N • Je	In a nutshell, microeconomic theory considers the behavior of individual economic agents and builds from this foundation to a theory of aggregate economic outcomes, which then can be applied for conducting welfare analysis and giving policy advice. This lecture addresses the core building block of this thought complex: individual decision making and behavior. Specifically, students will come to understand in detail the standard models of riskless consumer choice, choice under risk and intertemporal choice and learn about the empirical challenges and limitations of these models. Throughout the lecture, we will work with precise mathematical formalizations of the ideas that we want to think and talk about. In consequence, a solid understanding of the mathematical toolbox of standard microeconomics (e.g., differential calculus and constrained optimization; basic set theory; integration by parts) will be helpful as it will allow to focus on the underlying economic intuition. However, every required mathematical concept will be introduced and explained along the way, such that a strong interest in formal economic analysis is more important than an advanced mathematical background. The exposition is primarily based on the standard graduate textbooks Mas-Colell, Whinston and Green (1995): "Microeconomic Theory" Jehle and Reny (2001): "Advanced Microeconomic Theory"					
• a	pply th	e involved methods to gi	ven stylized example			
_		ze in which real life situat number of weekly contact hours, I		••		
V (2) +		tamper of weekly contact nours, t				
Method	l of ass	s essment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, information on whether	
b) writt c) term Langua	a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Mouut	e title				Abbreviation	
Strate	gic Netv	works in Industry			12-M-MS-161-m01	
Modul	e coord	inator		Module offered by	<u> </u>	
		aculty of Business Mana	gement and Econo-		nent and Economics	
			Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 semester graduate						
Conten	its		-			
 The primary object of this course is to gain a detailed understanding of strategic networks and of the phenomenon of clustering in the industrial industry. The example of the international automotive industry is used for clarification of the theoretical contents. The focus is on marketing in industrial companies and also on CSR - CSR is considered the "driver" of sustainable innovations - as well as the different strategy types of sustainable innovations. Outline of syllabus: Strategic networks and clusters in industrial industries such as the automotive industry Transaction types of Williamson as well as strategic cooperation between automobile manufacturers and suppliers Management of business types, in particular the business of suppliers in the automotive industry 						
		entrepreneurship activi innovation strategies	lies			
-		ning outcomes				
	-		n a profound underst	anding above the ba	sics of network research. Further	
					l as detailed cluster skills.	
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, information on whether	
		nation (approx. 60 minu ssessment: German and				
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e	_			
		e: no courses offered				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Referre						
	e appea	ars in				
 Module Master	's degr	ee (1 major) Economathe		016)		
 Module Master Master	's degr 's degr	ee (1 major) Economathe ee (1 major) Business In	formation Systems (2	016)		
 Module Master Master Master	's degr 's degr 's degr	ee (1 major) Economathe	formation Systems (2 anagement (2015)			
 Module Master Master Master Master	's degr 's degr 's degr 's degr	ee (1 major) Economatho ee (1 major) Business In ee (1 major) Business M	formation Systems (2 anagement (2015) less and Economics (2	2016)		

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Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021)

Module title					Abbreviation		
Incentiv	ves in (Organizations			12-M-AO-161-m01		
Module	coord	inator		Module offered by			
holder o Organis		Chair for Human Resourc	e Management and	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Contents							
					gical and empirical aspects of in- al (mainly empirical) research ar-		
Outline	of syll	abus					
1. Princi	ipal-ag	ent theory					
2. Do to	op man	agers earn too much? (a	pplication)				
3. Perfo	rmanc	e-based payment					
4. Imple	ementa	ation of performance-bas	ed payment in compa	anies (application)			
5. Senic	ority pa	yment (with application))				
6. Finar	ncial in	centives to work after rel	tirement (with applica	ation)			
7. Effici	ency w	ages (with case study)					
		tives (with case study)					
Intende	ed learr	ning outcomes					
necessa incentiv	Students acquire a working knowledge of key incentive models models, selected empirical applications and the necessary econometric background. This enables them to identify the advantages and disadvantages of different incentive systems that are applied in the enterprise context, to make informed management analyses and to critically evaluate current controversies and developments as well as to conduct their own research.						
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ge	rman)			
V (2) + ĺ	Ü (2)						
	Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English							
Allocati	Allocation of places						
Additional information							
Worklo	ad						
150 h							
Master's wit	th 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe			

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Module	Module title Abbreviation					
Entrepreneurship and Management 3 12-M-UGF3-161-mo1						
Module	e coord	inator		Module offered by		
holder of the Chair of Entrepreneurship and Strategy			and Strategy	Faculty of Managem	nent and Economics	
ECTS	S Method of grading Only after succ. compl. of module(s)					
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten	-	rovides an introduction i	nto digital antroprop	ourchin and digital to	ransformation	
			nto digital entrepren	eursnip and digital ti		
(1) Intro	oductio	n				
(2) Digi	tal bus	iness models				
(3) Ider	ntifying	and exploiting opportun	ities for digital entrep	preneurship		
(4) Stra	tegies	for creating competitive a	advantage in digital e	entrepreneurship		
(5) Digi	tal mar	keting for entrepreneurs				
(6) Crov	wdfund	ling for entrepreneurs				
(7) Des	ign thir	ıking				
(8) Lea	n startı	qu				
(9) Plat	form e	cosystems and online co	mmunities			
(10) Dig	gital str	ategy and digital transfo	rmation			
(11) The	e agile (organization				
(12) Crowdsourcing						
(13) Cyl	berfrau	d				
(14) Wrap-up and Q&A						
Intended learning outcomes						
 C E f(E 	Educational aimsClarify the role of digital entrepreneurship and digital transformation					

Learning outcomes

On successful completion of this module students will be able to:

- Assess the role of digital entrepreneurship and digital transformation for creating and sustaining competitive advantage
- Create and evaluate concepts related to digital entrepreneurship and digital transformation

- Make judgements about the organizational and managerial implications of digital entrepreneurship and digital transformation
- Systematically choose between different routes of action

Courses (type, number of weekly contact hours, language – if other than German)

V (2) + Ü (2)

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WÜRZBURG

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or

b) oral examination of one candidate each (approx. 30 minutes) or

- c) presentation (approx. 30 minutes) and written elaboration (10 to 15 pages) or
- d) term paper (15 to 20 pages) or
- e) portfolio (maximum 20 pages)

Language of assessment: German and/or English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Mouule	e title				Abbreviation						
Entrepreneurship and Management 4					12-M-UGF4-161-m01						
Module coordinator				Module offered by	<u>.</u>						
Dean o mics	f the Fa	aculty of Business Ma	nagement and Econo-	Faculty of Manager	nent and Economics						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)							
5	nume	rical grade		-							
Duratio	·	Module level	Other prerequisites	5							
1 seme	ster	graduate									
Conten	its										
• c • a • c	ourses dditior ourses	taken at other Germa nal courses offered on offered by new Chair	transferring credits from an or non-German univer a short-term basis s that are yet to be inclu s will ensure that the cou	sities ded in the FSB (subj							
Intende	ed learı	ning outcomes									
Due to	the cre	diting of different mo	dules, no competence d	escription can be ma	ade.						
V (2) +	Ü (2)				Courses (type, number of weekly contact hours, language – if other than German)						
			nguage — if other than German,	examination offered — if no	ot every semester, information on whethe						
module is a) writt b) oral c) preso d) term e) portf Langua	s creditab en exar examin entatio paper folio (m age of a	nie for bonus) mination (approx. 60 nation of one candida n (approx. 30 minutes (15 to 20 pages) or naximum 20 pages) ssessment: German a	minutes) or te each (approx. 30 minu s) and written elaboratio	utes) or							
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module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio	en exar examin entatio paper folio (m age of a ion of p onal inf	le for bonus) mination (approx. 60 nation of one candida n (approx. 30 minutes (15 to 20 pages) or naximum 20 pages) ssessment: German a blaces	minutes) or te each (approx. 30 minu s) and written elaboratio	utes) or							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio	en exar examin entatio paper folio (m age of a ion of p onal inf	le for bonus) mination (approx. 60 nation of one candida n (approx. 30 minutes (15 to 20 pages) or naximum 20 pages) ssessment: German a blaces	minutes) or te each (approx. 30 minu s) and written elaboratio	utes) or							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio Worklo 150 h	en exar examin entatio paper folio (m age of a ion of p onal inf	nination (approx. 60 nation of one candida n (approx. 30 minutes (15 to 20 pages) or naximum 20 pages) ssessment: German a blaces	minutes) or te each (approx. 30 minu s) and written elaboratio	utes) or							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio Worklo 150 h Teachin	en exar examin entatio paper folio (m age of a ion of p onal inf onal inf	e e e e e e mination (approx. 60 nation of one candida of one cand	minutes) or te each (approx. 30 minu s) and written elaboratio	utes) or							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio Worklo 150 h Teachin Teachin	en exar examin entatio paper folio (m age of a ion of p onal info onal info onal info	e e e e e e e e e e e e e e e formation e	minutes) or te each (approx. 30 minu s) and written elaboratio and/or English	utes) or on (10 to 15 pages) or							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio Worklo 150 h Teachin Teachin	en exar examin entatio paper folio (m age of a ion of p onal info onal info onal info	e e e e e e e e e e e e e e e formation e	minutes) or te each (approx. 30 minu s) and written elaboratio	utes) or on (10 to 15 pages) or							
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module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio Worklo 150 h Teachin Teachin Referre Module	en exar examin entatio paper folio (m age of a ion of p onal info pad ng cycle ed to in e appea 's degro	e (1 major) Economa	minutes) or te each (approx. 30 minu s) and written elaboratio and/or English 	utes) or on (10 to 15 pages) or							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Additio Worklo 150 h Teachin Teachin Referre Module	s creditab en exar examin entatio paper folio (m age of a ion of p onal info pad ng cycle ed to in e appea 's degro	e (1 major) Economa e (1 major) Economa e (1 major) Business	minutes) or te each (approx. 30 minu s) and written elaboratio and/or English and/or English ations for teaching-degree progra thematics (2016) Management (2015)	utes) or on (10 to 15 pages) or 							
module is a) writt b) oral c) preso d) term e) portf Langua Allocat Modultio Teachin Teachin Teachin Referre Master Master Master Master	e creditab en exar examin entatio paper folio (m age of a ion of p onal info pad ng cycle ed to in e appea 's degro 's degro	e e (1 major) Economa e (1 major) Economa e (1 major) China Bu	minutes) or te each (approx. 30 minu s) and written elaboratio and/or English 	utes) or on (10 to 15 pages) or ammes)							

Module title					Abbreviation	
IT-Management 12-M-ITM-161-m01					12-M-ITM-161-m01	
Module coordinator				Module offered by		
holder	of the C	hair of Information Syste	ems Engineering	Faculty of Managem	ient and Economics	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	numer	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	ts					
Content This cou ment.		ovides students with an i	n-depth overview of	aims, tasks and app	ropriate methods of IT manage-	
Outline of syllabus: 1. Organisation and distinction 2. IT strategy 3. IT organisation 4. Management of IT systems 5. Enterprise Architecture Management 6. IT project management 7. IT security 8. IT law 9. IT controlling						
Reading	g:					
• Ti	iemeye	n/Schmidt: Masterkurs I r: Handbuch IT-Managen ke: Strategisches Manage	ient, Munich.			
Intende	d learr	ning outcomes				
After completing the course "IT Management", students will be able to 1. overview the different aspects to be considered regarding a purposeful IT management; 2. understand and apply appropriate methods and tools; 3. independently perform system search and selection in a team project (only after participation in the practice lessons).						
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + ĺ	Ü (2)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
b) oral e approx. Langua	a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English creditable for bonus					
Allocati	ion of p	olaces				
Additio	nal info	ormation				

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Economics of Information and Network Industries					12-M-EIN-161-m01	
Module coordinator				Module offered by		
holder	of the (Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
 C N C D C 2. Comp S V S 3. Two(I N C D N C 4. Access 	 Monopoly pricing Competition in markets with network effects Compatibility and multihoming Dynamic competition Competition policy issues in industries with network effects Competition in markets with switching costs Simple two period models of markets with switching costs Various modelling possibilities for switching costs Switching costs and long-run prices Two(Multi)-Sided Markets and Platforms Monopoly pricing in platform markets Competition in platform markets Divide and conquer strategies Non-price strategies Competition policy issues in platform markets 4. Access pricing in network industries 					
The cou	urse wil	ll be taught in English.				
· · · · · · · · · · · · · · · · · · ·		ning outcomes				
After completion of the module students can understand and explain themselves the in the lecture introduced advanced concepts of economics, information and network industries (including their mathematical representation form). They will be able to refer to the modeling examples from the practice by impute obvious corporate strategies and can predict the market outcome, evaluate information and network industries from the perspective of the state and, if necessary, appropriate policy action alternatives derived. They will sufficiently understand the subject in order to open up that build upon literature in journals and being able to think critically.						
		umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	Ü (2)					
		essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) writt c) term	en exai paper ge of a	nination (approx. 60 to 9 mination (questions cond (approx. 15 to 20 pages) ssessment: German and, bonus	cerning mathematical	methodology; appro	ox. 120 minutes) or	
Allocat	ion of p	olaces				

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

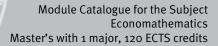
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation		
E-Business Strategies 12-M-IBS-161-m					12-M-IBS-161-m01		
Module coordinator				Module offered by			
holder of the Chair of Information Syste			stems Engineering				
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites	5			
1 seme	ster	graduate					
Conten	its						
industr applied	ries and d to dig	rovides an overview of d value networks. To th ital innovations and ill nown digital companie:	is end, concepts and fr ustrated with numerou	rameworks from strat s examples. In the ac	egic technology mar ccompanying exercis	nagement are	
Intend	ed lear	ning outcomes					
logies.		theoretical concepts of					
applica	ation.	nt frames of reference		trengths and weakne	esses in the context	of practical	
		concepts to real busine					
V(2) +	-	number of weekly contact hour	s, language — if other than Ge	rman)			
		s essment (type, scope, lang ole for bonus)	uage — If other than German,	examination offered — if no	it every semester, information	ion on whether	
b) oral approx Langua	a) written examination (approx. 60 minutes) or b) oral examination (one candidate each: approx. 15 to 20 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: German and/or English creditable for bonus						
	Allocation of places						
40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential consideration. (2) The remaining places will be allocated to students of other subjects. (3) When places are allo- cated in accordance with (1) and (2) and the number of applications exceeds the number of available places, pla- ces will be allocated by lot among applicants from this group.							
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teaching cycle							
Teaching cycle: winter semester							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module							
	-	ee (1 major) Economatł ee (1 major) Business I		016)			
Master's w	ith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 422 / 590	

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)





Research Methods

(20 ECTS credits)



Compulsory Core Electives I

(15 ECTS credits)

Module title					Abbreviation	
Advanc	Advanced Microeconomics 12-M-AM-161-mo1					
Module coordinator				Module offered by		
holder formati		Chair for Economics, Con nomics	tract Theory and In-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	5		
1 seme	ster	graduate				
Conten	ts					
al decis riskless and lim Through and tall (e.g., di it will a introdu ant tha The exp	foundation to a theory of aggregate economic outcomes, which then can be applied for conducting welfare analysis and giving policy advice. This lecture addresses the core building block of this thought complex: individual decision making and behavior. Specifically, students will come to understand in detail the standard models of riskless consumer choice, choice under risk and intertemporal choice and learn about the empirical challenges and limitations of these models. Throughout the lecture, we will work with precise mathematical formalizations of the ideas that we want to think and talk about. In consequence, a solid understanding of the mathematical toolbox of standard microeconomics (e.g., differential calculus and constrained optimization; basic set theory; integration by parts) will be helpful as it will allow to focus on the underlying economic intuition. However, every required mathematical concept will be introduced and explained along the way, such that a strong interest in formal economic analysis is more important than an advanced mathematical background.					
Intende	ed lear	ning outcomes				
• e • a	 After completing the course students will be able to explain essential findings of microeconomic theory, apply the involved methods to given stylized examples on their own, recognize in which real life situations and how the results can be applied. 					
-		number of weekly contact hours, l	language — if other than Ge	rman)		
V (2) +						
		sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	it every semester, information on whether	
a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Module title		Abbreviation			
Advanced Mag	croeconomics			12-M-MFF-161-m01	
Module coord	inator		Module offered by		
holder of the (Chair of International Eco	nomics	Faculty of Managem	nent and Economics	
ECTS Metho	od of grading	Only after succ. com	pl. of module(s)		
5 nume	rical grade				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
<u>Content</u>					
and a review of mans model, of	of the Solow-growth mode on endogenous growth th ns of this framework invo	el. The lecture then fo neory and it puts the r	cuses on the infinite oles of human capit	of the facts of long-run growth e-horizon Ramsey-Cass-Koop- al and institutions under scruti- es and the environment will be	
<u>Outline</u>					
I Facts and the	e Solow Growth Model				
ll Infinite-Horiz	zon Ramsey-Cass-Koopm	ans model			
III Endogenou:	s Growth				
IV Human Cap	ital, Social Infrastructure	and Beyond			
V Applications	s (Urban and regional gro	wth; Growth, resourc	es and the environm	ent)	
Literature:					
The course dra	aws strongly on the textb	ook:			
David Romer,	Advanced Macroeconom	ics, 4 th edition, McGra	aw-Hill Irwin.		
We will use jo	urnal articles and researc	ch papers at several p	arts of the lecture.		
Intended lear	ning outcomes				
Students acquire a working knowledge of the key models and analytical tools of advanced macroeconomics. This enables them to identify the key forces that determine the determinants of income levels and growth rates of incomes, to make informed policy analysis and statements and to critically evaluate current controversies and developments as well as to conduct their own research.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (2) + Ü (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
b) term paper	nination (approx. 60 to 9 (approx. 15 pages) ssessment: German and,				
Allocation of p		-			

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation					Abbreviation		
Managerial Analytics & Decision Making					12-M-MADM-161-m01		
Module coordinator Module offered by					l		
holder	of the (Chair of Logistics and Qu	antitative Methods	Faculty of Managen	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	ster	graduate	 				
Conten		0	I				
a diver	se set o				ethods to structure and solve dern methods with the help of		
Intend	ed lear	ning outcomes					
(ii) app sion m	oly impo aking;	erstand and structure pro ortant theoretical and em t advanced analytical me	pirical frameworks to		that evaluate good and bad dec risk.		
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Gei	rman)			
V (2) +	Ü (2)						
		sessment (type, scope, langua ole for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether		
b) term	i paper ige of a	mination (approx. 60 mir (approx. 15 to 20 pages) ssessment: German and, bonus					
Allocat	ion of _l	places					
Additio	onal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Teachi	ng cycle	e: winter semester					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	immes)			
Module appears in							
Module	Master's degree (1 major) Economathematics (2016)						
Master	's degr						
Master Master	's degr 's degr	ee (1 major) Business Inf	ormation Systems (20	016)			
Master Master Master	's degr 's degr 's degr	ee (1 major) Business Inf ee (1 major) Business Ma	ormation Systems (20 inagement (2015)				
Master Master Master Master	's degr 's degr 's degr 's degr	ee (1 major) Business Inf	ormation Systems (20 inagement (2015) ess and Economics (2	2016)			

Module title					Abbreviation	
Econon	Econometrics 1 12-M-OE1-161-mo1					
Module coordinator				Module offered by		
holder	of the (Chair of Econometrics		Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
This mo del. In dule ex ces tes Linear a Outline 1. Rand 2. Impo 3. Poin 4. Simp 5. Mod 6. Mod 7. Simp 8. Mult	Contents Description: This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the model's explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions					
Intende	ed learı	ning outcomes				
The students acquire knowledge of the basics, concepts and methods used in the classical linear regression mo- del and understand the role of econometrics in science and data analysis. In particular, they learn how to analy- tically derive, calculate and interpret the coefficients, standard errors and p-values of a classic regression output of the multiple regression model. Furthermore, they are able to formally state and motivate the assumptions and properties of OLS and know how to deal with transformed and dummy variables. Additionally, students will be able to test multiple linear restrictions on the parameters and will be able to apply these tests to real economic, business and social science questions. The competences acquired in this course serve as a prerequisite for "Econometrics II", "Econometrics III", "Micro- econometrics" und "Financial Econometrics".						
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (2) +	Ü (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
b) term	paper ge of a	mination (approx. 60 mir (approx. 15 pages) ssessment: German and bonus				
Allocat	ion of p	olaces				

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Compulsory Core Electives II

(ECTS credits)

Module title				Abbreviation		
DSGE N	Nodelli	ng			12-M-DMM-161-mo:	L
Module	coord	inator		Module offered by		
head of	f the W	ork Group of Empirical	Economics	nomics Faculty of Management and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
are des present are forn plans. I show h	igned t tative h nulateo n a thin ow cha	to describe the busines ousehold. In particula d. In a second step, we rd step, we explain what nges in interest rates i	"Dynamic Stochastic G ss cycle at the macro le r, we describe how con focus on the firm secto at role the central bank nteract with optimal de CAPM models and mon	vel. In a first step, we sumption, asset allo or and address how f plays in stabilising t ecisions taken by hou	e analyse the behavi cation and labour su irms solve for optima the business cycle. T useholds and firms.	our of a re- Ipply plans al production
Intende	ed learı	ning outcomes				
• S • Li • S • B • B	The course offers analytical tools designed to solve DSGE models. These analytical skills encompas: Solving of intertemporal optimization problems (e.g., consumption Euler-equations). 					
			s, language — if other than Ge	•		
V (2) +	Ü (2)					
		essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term	paper	nination (approx. 60 n (approx. 15 pages) ssessment: German ar				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
 Worklo						
150 h	au					
Teachir		۵				
		e: winter semester				
			ons for teaching-degree progra	mmac)		
				annies)		
Module	20002	ors in				
			nematics (2016)			
Master' Master' Master'	Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)					
		Economathematics (2016)	JMU Würzburg	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 434 / 590



Module title				Abbreviation			
Microe	conom	etrics			12-M-MIK-161-m01		
Module	e coord	inator		Module offered by	dule offered by		
holder	of the (Chair of Econometrics		Faculty of Managen	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
data is plainec Outline	adequ l in det	ately addressed. The m	and concepts for the a naximum likelihood me				
2. Mod 3. Mod	els for els for	qualitatively depender limited dependent vari ident models					
2. Ronn 3. Verb	ne, W. ning, G. eek, M	H.: Econometric Analys : Microeconometrics, S .: Modern Econometric n, R., Boes, S.: Analysi	Springer Verlag.	r Verlag.			
Intende	ed lear	ning outcomes					
qualita	tively a		e of the maximum likeli variables. They can aut sults meaningfully.				
Course	S (type, r	number of weekly contact hour	s, language — if other than Ger	man)			
Ü (2) +	Ü (2)						
		eessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
b) term Langua	paper ige of a	mination (approx. 60 n (approx. 15 pages) ssessment: German ar					
credita	ble for	bonus					
Allocat	ion of _l	olaces					
Additio	onal inf	ormation					
Workload							
150 h							
Teachin							
Teaching cycle: after announcement							
Referre	d to in	LPUI (examination regulation	ons for teaching-degree progra	mmes)			
		•					
Module	e appea	irs in					
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 435 / 590	

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Analysis of financial Market Data 12-M-FM0-161-m01 Module coordinator Module offered by Incler of the Chair of Econometrics Faculty of Management and Economics ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade - Duration Module level Other prerequisites 1 semester graduate - Contents - - Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market data. In the concept of market efficiency is explained and critically examined with reference to the random walk hypothesis, a number of parametric and non-parametric methods are proposed and applied in practice. Based on the findings, market microstructure models that can explain some important empiri-cal findings, market microstructure models that can explain some important empiri-cal findings, market microstructure models that can explain some important empiri-cal findings, market microstructure models that an explain some important empiri-cal findings market and lasses is sues of univariate time series analysis so as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 9. Univariate modelling of time series data 6. Models to explain volatility (ARCH and GARCH	Modul	Module title					Abbreviation	
holder of the Chair of Econometrics Faculty of Management and Economics ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contemts Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market data. The concept of market efficiency is explained and critically examined with reference to the random walk hypothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and applied in practice. Based on the findings, market microstructure models that can explain some important empirical findings will be discussed. In addition, the course describes event studies for testing the significant impact of coronate news on the share price and discusses issues of univariate time series analysis such as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 3. Theoretical market models 4. Event studies 5 5. Univariate modelling of time series data 6. Models to explain volatility (ARCH and GARCH) 7. Estimation of the capital asset pric	Analys	Analysis of Financial Market Data 12-M-FMO-161-m01					1	
ECTS Method of grading Only after succ. compt. of module(s) 5 numerical grade	Modul	e coord	inator		Module offered by			
5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market da. La. The concept of market efficiency is explained and critically examined with reference to the random walk hypothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and applied in practice. Based on the findings, market microstructure models that can explain some important empirical findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(0)MA and ARCH / GARCH models that are indispensable for modeling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 3. Theoretical market models 3. Univariate modelling of time series data 6. Models to explain volatility (ARCH and GARCH) 7. Estimation of the capital asset pricing model Reading: Reading: C:: A Guide to Financial Data Analysis, Wiley. Campbell, JY, Lo, AW, MacKinley, AC: The Econometrics of Financial Markets, Princeton University Press. Geyer, A.: Information, Eri	holder	of the (Chair of Econometrics		Faculty of Management and Economics		5	
Duration Module level Other prerequisites 1 semester graduate	ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
1 semester graduate Contents Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market data. The concept of market efficiency is explained and critically examined with reference to the random walk hypothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and appitied in practice. Based on the findings, market microstructure models that can explain some important empiri- cal findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(DMA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. 1. Information efficiency 2. 2. Random walk 3. 3. Theoretical market models 4. 4. Event studies 5. 5. Univariate modelling of time series data 6. 6. Models to explain volatility (ARCH and GARCH) 7. 7. Estimation of the capital asset pricing model 7. Reading: Alexands, C.: A Guide to Financial Tata Analysis, Wiley. Campbell, JY, Lo, AW, MacKinley, AC: The Econometrics of Financial Markets, Princeton University Press. 6eyer, A:: Information, Erwartung und Risko. Aspekte der Verteilung, Abh	5	nume	rical grade					
Contents Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market da- ta. The concept of market efficiency is explained and critically examined with reference to the random walk hy- pothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and app- lied in practice. Based on the findings, market microstructure models that can explain some important empiri- cal findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. 1. Information efficiency 2. 2. Random walk 3. 3. Theoretical market models 4. 4. Event studies 5. 5. Univariate modelling of time series data 6. 6. Models to explain volatility (ARCH and GARCH) 7. 7. Estimation of the capital asset pricing model 7. Reading: 1. Alexander, C.: A Guide to Financial Data Analysis, Wiley. 7. Campbell, JY, Lo, AW, MacKinley, AC: The Econometrics of Financial Markets, Princeton University Press. Geyer, A.: Informat	Duratio	on	Module level	Other prerequisites				
Description: The module covers the fundamentals, methods and concepts for the empirical analysis of financial market da- ta. The concept of market efficiency is explained and critically examined with reference to the random walk hy- pothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and app- lied in practice. Based on the findings, market microstructure models that can explain some important empiri- cal findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 3. Theoretical market models 4. Event studies 5. Univariate modelling of time series data 6. Models to explain volatility (ARCH and GARCH) 7. Estimation of the capital asset pricing model Reading: Alexander, C.: A Guide to Financial Data Analysis, Wiley. Campbell, IY, Lo, AW, MacKinley, AC: The Econometrics of Financial Markets, Princeton University Press. Geyer, A.: Information, Erwartung und Risiko. Aspekte der Verteilung, Abhängigkeit und Varianz von finanzwirt- schaftlichen Zeitreihen, Veralg V. Fiorentz. Hamilton, JD: Time Series Analysis, Princeton University Press. Taylor, S.: Modelling Financial Time Series, Cambridge University Press. Taylor, S.: Modelling financial Time Series, Wiley. Currest dyee, number diveledge of the fundamentals, methods and concepts that are needed for the empiri- cal analysis of financial market data. They can autonomously perform statistical test decisions with statistic pro- grams such as R and critically analyze their economic importance. In addition, the students leam the indepen- dent handling of empirical capital market data an	1 seme	ester	graduate					
The module covers the fundamentals, methods and concepts for the empirical analysis of financial market da- ta. The concept of market efficiency is explained and critically examined with reference to the random walk hy- pothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and app- lied in practice. Based on the findings, market microstructure models that can explain some important empiri- cal findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 3. Theoretical market models 4. Event studies 5. Univariate modelling of time series data 6. Models to explain volatility (ARCH and GARCH) 7. Estimation of the capital asset pricing model Reading: Alexander, C.: A Guide to Financial Data Analysis, Wiley. Campbell, JY, Lo, AW, MacKinley, AC: The Econometrics of Financial Markets, Princeton University Press. Geyer, A.: Information, Erwartung und Risko. Aspekte der Verteilung, Abhängigkeit und Varianz von finanzwirt- schaftlichen Zeitreihen, Verlag V. Florentz. Hamilton, JD: Time Series Analysis, Princeton University Press. Taylor, S.: Modelling of Financial Time Series, Cambridge University Press. Taylor, S.: Modelling of Financial Time Series, Cambridge University Press. Taylor, S.: Modelling of Financial Time Series, Wiley. Intended learning outcomes Students have significant knowledge of the fundamentals, methods and concepts that are needed for the empiri- cal analysis of financial market data. They can autonomously perform statistical test decisions with statistic pro- grams such as R and critically analyze their economic importance. In addition, the studen	Conter	nts		•				
Reading: Alexander, C.: A Guide to Financial Data Analysis, Wiley. Campbell, JY, Lo, AW, MacKinley, AC: The Econometrics of Financial Markets, Princeton University Press. Geyer, A.: Information, Erwartung und Risiko. Aspekte der Verteilung, Abhängigkeit und Varianz von finanzwirt-schaftlichen Zeitreihen, Verlag V. Florentz. Hamilton, JD: Time Series Analysis, Princeton University Press. Mills, T.: Econometric Modelling of Financial Time Series, Cambridge University Press. Taylor, S.: Modelling Financial Time Series, Wiley. Intended learning outcomes Students have significant knowledge of the fundamentals, methods and concepts that are needed for the empirical analysis of financial market data. They can autonomously perform statistical test decisions with statistic programs such as R and critically analyze their economic importance. In addition, the students learn the independent handling of empirical capital market data and at the end of the course, they will have the ability to develop own functions and routines, for example for R. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ü (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus	The module covers the fundamentals, methods and concepts for the empirical analysis of financial market da- ta. The concept of market efficiency is explained and critically examined with reference to the random walk hy- pothesis. To test this hypothesis, a number of parametric and non-parametric methods are proposed and app- lied in practice. Based on the findings, market microstructure models that can explain some important empiri- cal findings will be discussed. In addition, the course describes event studies for testing the significant impact of corporate news on the share price and discusses issues of univariate time series analysis such as AR(I)MA and ARCH / GARCH models that are indispensable for modelling financial market data. In the final part of the course, CAPM is discussed and examined, in particular with regard to its empirical applicability. Syllabus: 1. Information efficiency 2. Random walk 3. Theoretical market models 4. Event studies 5. Univariate modelling of time series data							
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cal analysis of financial market data. They can autonomously perform statistical test decisions with statistic pro- grams such as R and critically analyze their economic importance. In addition, the students learn the indepen- dent handling of empirical capital market data and at the end of the course, they will have the ability to develop own functions and routines, for example for R. Courses (type, number of weekly contact hours, language – if other than German) V (2) + Ü (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus		-						
V (2) + Ü (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus	cal ana grams dent ha	alysis of such as andling	f financial market data. T s R and critically analyze s of empirical capital mar	They can autonomous their economic impor ket data and at the er	ly perform statistical rtance. In addition, tl	test decisions with te students learn th	statistic pro- ne indepen-	
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus	Course	es (type, r	number of weekly contact hours,	language — if other than Ger	rman)			
module is creditable for bonus) a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus	V (2) +	Ü (2)						
b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus				age — if other than German,	examination offered — if no	t every semester, informa	tion on whether	
Master's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 437 / 590	b) term Langua	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English						
	Master's w	vith 1 majo	r Economathematics (2016)	JMU Würzburg•	• generated 19-Apr-2025 • exa	am. reg. da-	page 437 / 590	

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	Module title				Abbreviation
Theory	of Indu	strial Organization 1			12-M-Tl1-161-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Theory of industrial organisation: 1. Monopoly pricing Nonlinear pricing and mechanism design Dynamic pricing: experience goods, durable goods 2. Oligopoly pricing Static price and quantity competition in homogeneous and differentiated goods markets Comparative statics Equilibrium market structure 3. Dynamic competition in oligopoly markets Subgame perfect equilibrium and models of dynamic competition Repeated games and collusion 4. Strategic behaviour by incumbent firms Entry deterrence and predation Signalling and reputation 5. Behavioral Industrial Organization Reference Dependent Preferences and Framing Effects Time inconsistent behavior					
		l be taught in English.			
·		ning outcomes			
tition in conditio advanc in mark ly releva	n oligop ons un ed gan ets. By ant pro	ooly markets as well as so der which the predictions he theoretic tools, such a means of comprehensiv blems. They will be in a p	ophisticated pricing t of these models are s dynamic models of e exercises, they will position to read acad	echniques in monop valid. They will becc competition, for stu- apply the methods t emic papers on relat	ed theoretical models of compe- ooly markets. They will learn the ome familiar with applications of dying interactions between firms they learn in class to practical- red topics, assess the strengths I suggest possible extensions.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	Ü (2)				
		eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term Langua	a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of p	olaces			
Additio	nal inf	ormation			

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Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title A				Abbreviation		
Theory of Industrial Organization 2 12-M-Tl2-161-m01						
Module	e coord	inator		Module offered by		
holder	of the (Chair of Industrial Econo	omics	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
This co Outline 1. The c nance, 2. Cont 3. Com 4. The c 5. The c 6. Inter 7. Forec Intende After cc (i) expl (ii) app (iii) rec	Description: This course discusses vertical contracts in supply chains and their impact on competition. Outline of syllabus: 1. The classic problem of double marginalisation and its solution by nonstandard contracts (resale price mainte- nance, nonlinear pricing (rebates), exclusive territories, exclusive dealing etc.) 2. Contracts for service 3. Common agency 4. The delegation principle 5. The commitment problem 6. Interlocking relationships 7. Foreclosure by vertical contracts or mergers Intended learning outcomes After completing the course students are able to (i) explain the results of theoretical industrial economics on vertical contracts; (ii) apply the involved methods to given simple examples on their own;					
		e impact of certain verti				
	S (type, n	umber of weekly contact hours	, language — if other than Ger	rman)		
		eessment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term Langua	paper ge of a ment o	nination (approx. 60 to (approx. 15 to 20 pages ssessment: German and ffered: In the semester bonus) d/or English	offered		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
	Teaching cycle					
		e: no courses offered				
		LPO I (examination regulatio	ns for teaching-degree progra	mmes)		
Module	e appea	nrs in				
Master's wi	ith 1 majoi	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 441 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title			Abbreviation			
Optimal Tax Theory 12-M-F4-161-m01						
Module	e coord	inator		Module offered by		
holder	of the (Chair of Public Finance		Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
The cou for a ta pital. Examin studen Readin Outline 1. Optin 2. Optin 3. Optin 4. Inter	Description: The course will discuss the design of an optimal tax system. First, students will learn what criteria have to be met for a tax system to be optimal. Lectures will introduce key rules for taxing commodities as well as income and ca-					
		ning outcomes				
They ar to prep	e able are and	to apply this concept t d present short papers	ts have a basic unders o specific normative qu , where they discuss sp s, language — if other than Ge	estions of tax policy ecific normative poli	in practice. Student	s also learn
V (2) +	Ü (2)					
		essment (type, scope, lan le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) term	paper	mination (approx. 60 n (approx. 15 pages) ssessment: German ai				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi						
		e: winter semester				
Referre	d to in	LPO I (examination regulat	ons for teaching-degree progra	ammes)		
Module						
	-	ee (1 major) Economat ee (1 major) Business I				
			iness and Economics (2	2016)		
•	-	Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 443 / 590



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Compu	tationa	Il Economics - Advance	d Level		12-M-NGM-161-m01	
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Public Finance		Faculty of Managen	nent and Economics	
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts					
ty etc.). field ar tribute	urse w . Provic nd fami betwee	ling students with state liarising them with the en different generation	l with the analysis of pu e-of-the-art techniques relevant literature, this s and also within gener n trigger distortions an	for quantitative mac course will teach st rations, how they ma	roeconomic researcl udents how such po y improve risk shariı	n in this very licies redis- ng when mar-
2. Solu	rammir tion te	ng with FORTRAN and a chniques for dynamic p	pplication of numerical programming problems wth and life cycle mod			
Readin Lecture		will be provided.				
Intende	ed lear	ning outcomes				
(i) edit (ii) imp	and so lement	lve stochastic econom small scale economic	ed Computational Ecor ic problems using adva models on the comput policy reforms and inte	nced numerical tech er;	niques;	c term.
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		s essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
a) writt	en exa	mination (approx. 60 n	ninutes) or			
		(approx. 15 pages)	d / av Evaliata			
	. <u> </u>	ssessment: German ar	id/or English			
Allocat		Diaces				
 Additio	nalinf	ormation				
Auditio	matim					
Worklo	ad					
150 h	Workload					
	ng cycl	Δ				
Teaching cycle Teaching cycle: winter semester						
			ons for teaching-degree progra	ammoc)		
Module	appe	ars in				
		ee (1 major) Economati	nematics (2016)			
	_	r Economathematics (2016)	JMU Würzburg	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 445 / 590

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation	
Econom	netrics	2			12-M-OE2-161-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Econometrics	-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
This mo Partly a well as I")) are tion. Linear a Syllabu 1. Speci 2. Multi 3. Heter 4. Autoo 5. Gene	Description: This module deals with the basics, concepts and methods of the generalized least squares (GLS) framework. Partly as a motivation for the GLS model and partly for its own right, different specification and data problems as well as violations of model assumptions of the OLS estimator (as introduced in "Ökonometrie I" ("Econometrics I")) are discussed. This includes multicollinearity, a test for structural breaks, heteroskedastiticy and autocorrela-				
Intende	ed learı	ning outcomes			
zed line data pro gnize, t to critic plemen above-r	ear regroblems oblems o asser ally as tation mentio	ression model (GLS) and and violations of the as ss and therefore adequat sess the use of the estim of empirical analyzes and	can apply and interpo sumptions of the class rely deal with these p ation methods in scie d to answer selected The competences acq	ret it. They are sensit ssical linear model ((roblems in theory an entific work, to work (economic) scientific uired in this courses	pts for estimating the generali- ized for specification problems, DLS) in order to be able to reco- nd practice. This enables them independently on adequate im- c issues if available data with the serve as a prerequisite for "Eco-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + l	Ü (2)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term	paper ge of a	nination (approx. 60 min (approx. 15 pages) ssessment: German and, bonus			
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	9			
Teachir	ng cycle	e: summer semester			

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	Module title				Abbreviation	
Econom	Econometrics 3				12-M-OE3-161-m01	
Module	coord	inator		Module offered by		
holder	of the C	Chair of Econometrics	F	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	Contents					
This mo zed leas the inst models includir	Description: This module deals with advanced econometric methods and concepts based on the classical and the generali- zed least squares estimator discussed in Ökonometrie I and II (Econometrics I and II). In particular, this includes the instrumental variable (IV) estimator, the generalized method of moments (GMM) estimator, distributed lag models as well as basic methods and concepts used in uni- and multivariate econometric time series analysis, including (non)stationarity, integration and cointegration. Linear algebra is used as formal aid.					
1. Error- 2. IV es 3. Gene 4. Distri 5. Statio 6. Dete	Syllabus: 1. Error-in-variables 2. IV estimation 3. Generalized least squares estimation 4. Distributed lag models 5. Stationary uni- and multivariate processes 6. Deterministic and stochastic trends 7. Integrated and cointegrated processes					
Intende	ed learr	ning outcomes				
miliariz course, mator te econom selected ted pro- dents te	ed with studer o the en nics and d time cesses o apply	acquire thorough unders n diverse error-in-variab nts understand the gene xtent that they can discu d understand scientific series issues, such as d , enabling them to cond the above mentioned r neir theoretical and prace	les issues and will be ralized method of mo uss their pros and con papers using these m istributed lag models uct a comprehensive nethods and concepts	capable of handling ments (GMM) and th is, apply these to sel ethods. Furthermore , non-stationarity, sp time series analysis. s to real life question	them appropriately. e instrumental varia ected questions in q , they become acqua urious correlation at In brief, the course	After the able (IV) esti- quantitative ainted with nd cointegra- enables stu-
Courses	S (type, n	umber of weekly contact hours,	language — if other than Ge	rman)		
V (2) + l	Ü (2)					
		e ssment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
b) term	paper ge of a	nination (approx. 60 mi (approx. 15 pages) ssessment: German and bonus				
Allocation of places						
Additio	nal info	ormation				
Worklo	ad					
150 h						
Master's wi	th 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 449 / 590

Teaching cycle

Teaching cycle: after announcement

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module	Module title				Abbreviation		
Industi	rial Mai	nagement 3			12-M-SPM-161-m01		
Module	e coord	inator		Module offered by	Nodule offered by		
holder Manag		Chair of Business Manag	gement and Industrial	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
ning ar Studen cal moo princip	nd cont Its will I dels wil les of v	vill discuss contents and rol concepts. become familiar with the Il be used for analysing alue structure optimisat ical models.	e essentials of strateg both economic and ec	ic production manag ological issues. In a	ement. Theoretical addition, the module	and analyti- will discuss	
Intende	ed learı	ning outcomes					
strateg the ma	y struct in strat	on of the module studer tured and goal-oriented egic tasks and objective he production in realisti	in a global context us s in production mana	ing appropriate meth gement and evaluate	ods. Furthermore, t	hey know	
		number of weekly contact hours,	language — if other than Ger	rman)			
V (2) +	• •	lternetively elegrating (
		Ilternatively eLearning, S		· · · · · · · · · · · · · · · · · · ·			
		sessment (type, scope, langu le for bonus)	age — If other than German, (examination offered — if no	t every semester, informat	ion on whether	
b) pres c) term	entatio paper ige of a	mination (approx. 40 to n (approx. 20 minutes) (approx. 30 to 40 pages) ssessment: German and bonus	and term paper (appro)	ox. 15 to 20 pages); (weighted 1:1) or		
Allocat	ion of p	olaces					
by lot a numbe	imong a r of pla	Should the number of a all applicants irrespectiv ces will be allocated in t s they become available	ve of their subjects. (2) the same procedure. () Places on all course	es of the module wit	th a restricted	
Additio	nal inf	ormation					
Worklo	ad						
150 h			_				
Teachi	ng cycl	e					
Teachi	ng cycle	e: after announcement					
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)			
Module	e appea	urs in					
	-	ee (1 major) Economathe ee (1 major) Business In		016)			
Master's w	ith 1 majoı	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 451 / 590	

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation		
Empirical HR Research with Stata					12-M-EPF-161-m01	
Module	coord	inator		Module offered by		
holder o Organis		Chair for Human Resource	e Management and	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
most in learn, w STATA.	nportar /ith the	Empirische Personalforson t estimation problems a help of basic problems be provided in class.	nd their application i	n the software packa	age STATA. In additio	on, students
Intende	d lear	ning outcomes				
		e seminar is to enable stu application in STATA wit				n program-
Courses	5 (type, r	number of weekly contact hours, I	anguage — if other than Ge	rman)		
Ü (2)						
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, informati	on on whether
Langua	ge of a	oprox. 10 pages) ssessment: German and ffered: Once a year as an				
Allocati	ion of p	olaces				
by lot a number	mong a r of pla	Should the number of ap all applicants irrespective ces will be allocated in tl s they become available.	e of their subjects. (2 ne same procedure. () Places on all course	es of the module wit	h a restricted
	•	ormation				
Worklo	ad					
150 h						
Teachir	ıg cycl	e	-			
Teachir	ig cycle	e: each semester				
		LPO I (examination regulation	s for teaching-degree progra	immes)		
Module	appea	ars in				
		ee (1 major) Economathe	matics (2016)			
Master'	s degr	ee (1 major) Business Ma	nagement (2015)			
Master's degree (1 major) China Business and Economics (2016)						
	-	ee (1 major) International		-		
	-	ee (1 major) China Langu)16)		
	Master's degree (1 major) Management (2018) Master's degree (1 major) International Economic Policy (2018)					
		ee (1 major) Themational				
	-	r Economathematics (2016)		generated 19-Apr-2025 • exa	am. reg. da-	page 453 / 590
	·			(120 ECTS) Wirtschaftsmathe		

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Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Modul	e title				Abbreviation
Humar	n Resou	rce Management and Inc	dustrial Relations		12-M-HRM-161-m01
Modul	e coord	inator		Module offered by	
	of the (Chair for Human Resourc	e Management and	Faculty of Managen	nent and Economics
ECTS				npl. of module(s)	
5 numerical grade					
Duration Module level Other prerequisites					
1 seme	ester	graduate			
Conter	nts				
techni such a	ques an Is the di		the areas of human r		advanced theories, estimation ent and institutional frameworks
Syllab					
		Human Resource Manag		elationships	
Chapte	er 1: The	employment contract [f	ormal model]		
Chapte	er 2: Mo	tivation [formal model]			
Chapte	er 3: Em	ployee resistance agains	st reorganisations [en	npirical study]	
Chapte	er 4: The	e role of works councils [formal model]		
Chapte	er 5: Wo	rks councils and the em	ployer wage structure	[empirical study]	
Chapte	er 6: The	e behaviour of labour un	ions [formal model]		
Chapte	er 7: Lea	rning process of employ	ers [formal model and	d empirical study]	
Chapte	er 8: De	mographic challenges of	HRM [formal model a	and empirical study]	
Intend	ed learı	ning outcomes			
	npirical				theories, estimation techniques lations on the basis of scientific
Course	es (type, n	umber of weekly contact hours,	language — if other than Ge	rman)	
V (2) +	Ü (2)				
		s essment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, information on whether
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English					
Alloca	tion of p	olaces			
mes B matior China	usiness 1 Systen Busines	Management, Internations), Wirtschaftsmathema	onal Economic Policy atik (Mathematics for l of 20 places will be	or Economics, Wirtsc Economics) and Chin allocated to student	of the Master's degree program- haftsinformatik (Business Infor- nese and Economics as well as s of other subjects; should the

Master's with 1 major Economathematics (2016)

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
exchange program Business Management and Economics (2022)

Master's with 1 major	Economathematics	(2016)	
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Module title					Abbreviation	
Accoun	Accounting and Capital Markets				12-M-REKA-161-m01	
Module	coord	inator		Module offered by		
holder o and Acc		Chair of Business Mana	gement, Controlling	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
as their text, an ters. Ba sheet th blicity a	The module focuses on financial and management accounting, their functions, possible configurations as well as their impact on internal and external recipients under consideration of the institutional setting. In this context, an economic perspective has priority over detailed legal arrangements and regulations by the standard setters. Based on the theoretical foundations of information economics as well as decision-making and balance sheet theories, typical issues concerning cost and managerial accounting as well as financial accounting and publicity are discussed.					
		ning outcomes		1:		
as infor nomic i ge abou valuatio	Initially, a fundamental knowledge about the conception and impact of management and financial accounting as information systems is acquired. In the following, the module mainly sharpens the understanding of the eco- nomic impacts of the configuration of management and financial accounting. What is more, extensive knowled- ge about possible impacts of changes in institutional general frameworks is covered. For example, changes in valuation standards, publicity rules or regulations about the distribution of profits in enterprises and on capital markets are considered.					
Courses	5 (type, n	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) + ĺ	 (2) ل					
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
		nation (approx. 60 mini ssessment: German an				
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachin	ig cycl	e				
Teachin	ig cycle	e: summer semester				
			ons for teaching-degree progra	immes)		
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	Module appears in Master's degree (1 major) Economathematics (2016)					
	-	ee (1 major) Business Ir		016)		
	-	ee (1 major) Business N				
		ee (1 major) China Busi				
		ee (1 major) Internation				
Master'	s degr	ee (1 major) China Lang	uage and Economy (20	016)		
Master's wit	th 1 majoi	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmather	-	page 457 / 590

Module title					Abbreviation		
Informa	ation sy	/stems research			12-M-ISR-161-m01		
Module	e coord	inator		Module offered by			
holder	of the (Chair of Information Sys	tems Engineering	Faculty of Managem	nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
	The course provides an overview of theoretical scientific foundations, theories, research topics and methods of international research in business informatics.						
Intende	ed leari	ning outcomes					
(i) Expl (ii) Gett (iii) Rec (iv) Gai	oration ting to l cognitic n expe	rovides students with k of classical themes of know the relevant para on of the interfaces to o rience in finding and ev	WI / IS research; digms, theories and me ther areas of business aluation of scientific li	administration and terature.	management practic	:e;	
		umber of weekly contact hours	, language — if other than Ge	man)			
V (2) +							
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether	
b) oral approx	examin . 30 mi Ige of a	ssessment: German an	ach: approx. 15 to 20 n	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:	
40 plac Should Master on. (2) cordan	Allocation of places 40 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Master's students of Wirtschaftsinformatik (Business Information Systems) will be given preferential considerati- on. (2) The remaining places will be allocated to students of other subjects. (3) When places are allocated in ac- cordance with (1) and (2) and the number of applications exceeds the number of available places, places will be allocated by lot among applicants from this group.						
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Teachir	ng cycle	e: each semester					
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	Module appears in						
Master Master Master	Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015)						
Master's wi	ith 1 majoı	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 458 / 590	



Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Interna	tional	Trade and the Multinatio	nal Firm		12-M-ITMF-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of International Eco			nomics	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten						
scher-C trade. 1 the sta	Dhlin) fo The fina ndard r	ollowed by theories base	d on monopolistic ar geneity and multinati	nd oligopolistic comp	advantage (Ricardo and Heck- petition to explain intra-industry ermits the Armington model and	
<u>Outline</u>	<u>)</u>					
l Ricard	lian Tra	de Theory				
II Heck	scher-C	hlin Trade Theory				
III New	Trade 1	Theory: Intra-Industry Tra	de, Increasing Return	s to Scale, Imperfect	t Competition	
IV Firm	Hetero	geneity, Trade and FDI				
V The N	Aultina	tional Firm				
<u>Literatu</u>	ure:					
further	referer				detailed list of references with lecture. Material from the followi-	
Helpma	an, E. (2	2011). Understanding Glo	bal Trade. Princeton	University Press.		
Feenstr Edition		(2016). Advanced Interna	ational Trade. Theory	and Evidence. Prince	eton University Press, Second	
Caves,	R., R.W	. Jones and J.A. Frankel (2007). World Trade a	nd Payments. Addiso	on Wesley	
Bhagwa Press	ati, J., A	A. Panagariya and T. N. Sr	inivasan (1998). Lect	ures on Internationa	l Trade. Second Edition. MIT	
Gandol	Gandolfo, G. (1998). International Trade Theory and Policy. Springer-Verlag, Berlin and New York					
Markus	Markusen, J.R., J.R. Melvin, W.H. Kaempfer, K. E. Maskus (1995). International Trade. McGrawHill					
Barba N Press	Barba Navaretti, G. and A.J. Venables (2004). Multinational Firms in the World Economy. Princeton University Press					
Intende	ed lear	ning outcomes				
ments	of spec	ialization patterns in the	global economy. The	ey learn to analyze, d	of world trade and the develop- iscuss and defend these deve- ted with the ongoing deepening	

of the international division of labor, in particular the repercussions of the global economy on national economies.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)



Module	e title				Abbreviation	
Econor	nic Geo	graphy			12-M-EG-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of International Eco	nomics	omics Faculty of Management and Economics		
ECTS Method of grading			Only after succ. com	ıpl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten						
cation	of econ		ne main parts of the l	ecture cover the fund	over key forces driving the allo- tioning and evolution of cities	
l Motiv	ation a	nd Facts				
II Locat	tion Bas	sics				
- Force	s Shapi	ng the Location of Econo	mic Activity in Space			
- Some	Intelle	ctual Background				
III Urba	in and I	Regional Economics				
- The S	patial S	Structure of Cities				
- City S	ystems					
III New	Econor	nic Geography				
- From	the Nev	v Trade Theory to the Nev	v Economic Geograph	ıy		
- Footlo	oose Ca	pital Model and Policy A	oplications			
- Core F	Periphe	ry Models and Policy App	olications			
- Empir	ics					
<u>Literatı</u>	ure:					
		es a combination of textb 6 (current and previous vo			ne Handbook of Urban and Regio- re:	
	Brakman, W., H. Garretsen and Ch. van Marrewijk, 2009, The New Introduction to Geographical Economics, Cambridge University Press					
	Baldwin, R., R. Forslid, P. Martin, G. Ottaviano and F. Robert-Nicoud, 2003, Economic Geography and Public Policy, Princeton, 2003					
		Th. Mayer and J.F. Thisse, ity Press	, 2008, Economic Geo	ography. The Integra	tion of Regions and Nations, Prin-	
Fujita,	M., P.R	. Krugman and A.J. Venab	les, 1999: The Spatia	al Economy, MIT Pres	S	

UNIVERSITÄT WÜRZBURG

Fujita, M. and J.-F. Thisse (2013). Economics of Agglomeration. Cities, Industrial Location and Regional Growth. Cambridge University Press.

Krugman, P.R., 1991, Geography and Trade, MIT Press

Intended learning outcomes

Students acquire a knowledge of the forces which determine the allocation of economic activity in space and they learn to apply fundamental models of cities, city systems and of regional agglomerations to understand and analyze policy issues involving local, regional and international policy questions both analytically and in an economic intuitive way.

Courses (type, number of weekly contact hours, language – if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

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Workload

150 h Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module	e title				Abbreviation
Empiri	cal Reg	ional- and International	Economic Research		12-M-ERA-161-m01
Module coordinator				Module offered by	<u> </u>
Dean o mics	Dean of the Faculty of Business Management and Econo- mics			Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5		rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	its				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
		n on intended learning o	utcomes available.		
		number of weekly contact hours, l		rman)	
V (2) +			,		
		s essment (type, scope, langua	ge — if other than German,	examination offered — if no	ot every semester, information on whether
b) term c) portf Langua	n paper folio (a age of a	mination (approx. 60 to 9 (approx. 10 pages) on en pprox. 20 pages) issessment: German and	npirical analysis prep	pared by candidates	or
Allocat	lon of	places			
 Additic	nal inf	ormation			
	matim	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
		e: no courses offered			
		LPO I (examination regulation	s for teaching-degree progra	ammes)	
Module	e appea	ars in			
Master Master	's degr 's degr	ee (1 major) Economathe ee (1 major) Business Ma ee (1 major) China Busine ee (1 major) International	nagement (2015) ess and Economics (2		
	-	ee (1 major) China Langu		-	

Module title					Abbreviation		
Topics	in Inte	rnational Economics 1			12-M-ATIÖ1-161-m01		
Module	e coord	inator		Module offered by			
Dean of mics	f the Fa	culty of Business Man	agement and Econo-	Faculty of Management and Economics			
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade		· · · ·			
Duratio		Module level	Other prerequisites	6			
1 seme	ster	graduate					
Conten	ts	0					
Conten	<u>t</u>						
de, and stems;	l Cities Global	; Outsourcing, Offshori	mics and economic geng and Multinational F Inment; Trade, Multinati	irms; Competition of	Locations, Jurisdicti	ons and Sy-	
<u>Literatu</u>			1				
		articles and/or monog	graphs.				
Drawing learn ai	g on cu nd app and re	ly research methods. T search both in written a	earch, students are ena he seminar style of the and in oral form. Stude	course teaches ther	n to present their ow	n seminar/	
			s, language — if other than Ge	rman)			
V (2) +							
• • •	• •	lternatively WS instead	d of V + Ü				
		essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informati	ion on whether	
b) term c) portf	paper olio (ap	nination (approx. 60 to (approx. 15 pages) or oprox. 20 pages) ssessment: German ar					
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teaching cycle							
Teaching cycle: no courses offered							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	appea	irs in					
	Module appears in Master's degree (1 major) Economathematics (2016)						
Master	Master's degree (1 major) Business Management (2015)						
Master	's degr	ee (1 major) China Busi	ness and Economics (2	2016)			
Master's wi	th 1 majoi	Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 465 / 590	



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Topics	in Inte	national Economics 2			12-M-ATIÖ2-161-m01	
Module	coord	inator		Module offered by		
Dean of mics	f the Fa	culty of Business Man	agement and Econo-	Faculty of Management and Economics		
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	Contents					
Conten	<u>t</u>					
de, and	Cities	; Outsourcing, Offshori	mics and economic ge ng and Multinational F iment; Trade, Multinati	irms; Competition of	Locations, Jurisdicti	ions and Sy-
<u>Literatu</u>	<u>ire:</u>					
Peer-rev	viewed	articles and/or monog	graphs.			
Intende	ed leari	ning outcomes				
learn ai	nd app and re	ly research methods. T search both in written	earch, students are ena he seminar style of the and in oral form. Stude	course teaches ther	n to present their ow	vn seminar
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ge	rman)		
V (2) + Course		lternatively WS instead	d of V + Ü			
		e essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
a) writte b) term c) portf	en exar paper olio (ap	nination (approx. 60 to (approx. 15 pages) or oprox. 20 pages) ssessment: German ar				
Allocat	-					
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Teaching cycle: no courses offered						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
		ee (1 major) Economatl	nematics (2016)			
Master's degree (1 major) Economianematics (2010) Master's degree (1 major) Business Management (2015)						
Master'	s degr	ee (1 major) China Busi	iness and Economics (a	2016)		,
Master's wi	th 1 majoi	Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 467 / 590



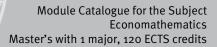
Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation		
Topics in International Economics 3					12-M-ATIÖ3-161-m0)1	
Module	e coord	inator		Module offered by	Module offered by		
Dean of the Faculty of Business Management and Econo- mics Faculty of Management and Econo-							
ECTS	Metho	od of grading	Only after succ. cor	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites	;			
1 seme	ster	graduate					
Conten	ts						
Conten	t						
de, and	l Cities	; Outsourcing, Offshori	mics and economic ge ng and Multinational F iment; Trade, Multinati	irms; Competition of	Locations, Jurisdicti	ons and Sy-	
<u>Literatu</u>	<u>ire:</u>						
Peer-re	viewed	articles and/or monog	graphs.				
Intende	ed learn	ning outcomes					
learn ai	nd app and re	ly research methods. T search both in written	earch, students are ena he seminar style of the and in oral form. Stude	course teaches ther	n to present their ow	n seminar	
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ge	rman)			
V (2) + Course		Iternatively WS instead	d of V + Ü				
		essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether	
b) term c) portf	paper olio (ap	nination (approx. 60 to (approx. 15 pages) or oprox. 20 pages)					
	<u> </u>	ssessment: German ar	id/or English				
Allocat	ion of p	Diaces					
Additio	natinf	ormation					
Workle			· · · · · · · · · · · · · · · · · · ·				
Worklo	dÜ						
150 h		-					
Teaching cycle							
	Teaching cycle: no courses offered						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modula		ve in					
Module Master		ee (1 major) Economatl	nematics (2016)				
	-	ee (1 major) Economati ee (1 major) Business I					
			iness and Economics (2	2016)			
Master's wi	th 1 major	Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 469 / 590	



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

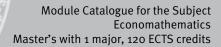




Managerial Accounting

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation
Coordination, Budgeting and Incentives in Companies 12-M-KOBO-161-mo1					12-M-KOBO-161-m01
Modul	e coord	inator		Module offered by	
	of the (Chair of Business Mana ng	agement, Controlling	Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)	
5	nume	rical grade			
Durati	on	Module level	Other prerequisites	;	
1 seme	ester	graduate			
Conte	nts				
course as info	e first di ormatior	scusses the role of acc nal analyses. Afterward	ounting in the context	of decision-making an astruments of behavi	ecentralized enterprises. The and behavioral controlling as well ioral controlling (budgeting, va- and practice.
Intend	ed lear	ning outcomes			
quiren	nents or		behavioral control are		enterprises. Knowledge about re- betences for deployment, struc-
Course	es (type, r	number of weekly contact hour	rs, language — if other than Ge	rman)	
V (2) +	Ü (2)				
		sessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, information on whether
		nation (approx. 60 min ssessment: German ar			
Alloca	tion of _l	olaces			
Additi	onal inf	ormation			
Workle	oad				
150 h					
Teachi	ing cycl	e			
Teachi	ng cycl	e: winter semester			
Referr	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)	
Modul	e appea	ars in			
Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015)					
Maste	Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)				

Module title					Abbreviation
Strategic Managerial Accounting					12-M-INST-161-m01
Modul	e coord	inator		Module offered by	l
	of the (Chair of Business Manag	ement, Controlling	Faculty of Managen	nent and Economics
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
5		rical grade			
<u>J</u> Duratio		Module level	Other prerequisites		
1 seme		graduate		•	
Conter		Sidudite			
enterp as the Second technid discus Intend Initially contro hs and manag Course V (2) + Metho module i written Langua	rises. Fi emerge d, the m ques, in sed wit ed learn y, know l within l weakn gement es (type, r Ü (2) d of ass s creditab	irst, it addresses importation ence of cost and quality a nodule covers analytical astruments of target cost h regard to their theoreti ning outcomes dedge about fundamentation enterprises is acquired. esses and therewith field used by practitioners. number of weekly contact hours, sessment (type, scope, langua de for bonus) nation (approx. 60 minut ssessment: German and	ant drivers of strategie and heuristic techniq ing, life cycle cost an cal foundation and fi- al requirements conce What is more, the mo ds of application and language — if other than Ge age — if other than German, ces)	c decisions from a m tition as well as scale ues of planning and alysis, benchmarking elds of application. erning instruments of odule conveys obtair limits of prevalent ir rman)	At of strategic management of icroeconomic perspective, such e and experience curve effects. control. In the context of these g and business wargaming are f decision-making and behavior hing knowledge about the streng instruments of strategic corporate
Additio	onal inf	ormation			
Worklo	bad				
150 h					
	ng cycl	e			
		e: summer semester			
		LPO I (examination regulation	s for teaching-degree progra	ammes)	
Modul	e appea	ars in			
		ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Inf		016)	
	-	ee (1 major) Business Ma			
	-	ee (1 major) China Busin			
	-	ee (1 major) Internationa		-	
Master	r's degr	ee (1 major) China Langu	age and Economy (20	016)	



Compulsory Core Electives

(10 ECTS credits)

Module title				Abbreviation	
Theory	of Indu	strial Organization 1			12-M-Tl1-161-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Theory of industrial organisation: 1. Monopoly pricing Nonlinear pricing and mechanism design Dynamic pricing: experience goods, durable goods 2. Oligopoly pricing Static price and quantity competition in homogeneous and differentiated goods markets Comparative statics Equilibrium market structure 3. Dynamic competition in oligopoly markets Subgame perfect equilibrium and models of dynamic competition Repeated games and collusion 4. Strategic behaviour by incumbent firms Entry deterrence and predation Signalling and reputation 5. Behavioral Industrial Organization Reference Dependent Preferences and Framing Effects Time inconsistent behavior					
		ll be taught in English.			
·		ning outcomes		noulodge of a dura	ad the exetical module of some
tition in conditio advanc in mark ly releva	n oligop ons un ed gan ets. By ant pro	ooly markets as well as so der which the predictions he theoretic tools, such a means of comprehensiv blems. They will be in a p	ophisticated pricing t of these models are s dynamic models of e exercises, they will position to read acad	echniques in monop valid. They will becc competition, for stu- apply the methods t emic papers on relat	ed theoretical models of compe- boly markets. They will learn the ome familiar with applications of dying interactions between firms they learn in class to practical- ted topics, assess the strengths I suggest possible extensions.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	Ü (2)				
		eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term Langua	a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of p	olaces			
Additio	nal inf	ormation			

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Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Module title					Abbreviation	
Incentives in Organizations 12-M-AO-161-m01						
Module	coord	inator		Module offered by		
holder of the Chair for Human Resource Management and Faculty of Management and Economics Organisation						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten						
		classical principal-agen ganisations. It uses con				
Outline	of sylla	abus				
1. Princi	ipal-ag	ent theory				
2. Do to	p man	agers earn too much? (a	application)			
3. Perfo	rmanc	e-based payment				
4. Imple	ementa	ition of performance-ba	sed payment in compa	anies (application)		
5. Senic	ority pa	yment (with application	ו)			
6. Finar	ncial in	centives to work after re	etirement (with applica	ation)		
7. Effici	ency w	ages (with case study)				
		tives (with case study)				
		ning outcomes				
necessa incentiv	ary eco /e syste	lire a working knowledg nometric background. ems that are applied in e current controversies	This enables them to id the enterprise context	dentify the advantage , to make informed n	es and disadvantage nanagement analyse	es of different
Courses	5 (type, n	umber of weekly contact hours	, language — if other than Ge	rman)		
V (2) + ĺ	Ü (2)					
		e essment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term	paper	nination (approx. 60 m (approx. 15 pages) ssessment: German an				
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Master's wit	th 1 major	Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 478 / 590

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Modul	e title				Abbreviation		
Projec	t Mana	gement and Control			12-M-PROM-161-m01		
Modul	e coord	linator		Module offered by	I		
	of the	Chair of Business Manag ng	ement, Controlling	Faculty of Managen	nent and Economics		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)			
5		rical grade		• • • • •			
Durati		Module level	Other prerequisites	;			
1 seme	ester	graduate					
Conter	nts		,				
ment a metho	are cons ds and	sidered. It covers charact	eristic features and s nd management of pr	tructures of projects ojects in various pro	pproaches to project manage- , their possible success factors, ject phases. The theoretical basis		
Intend	ed lear	ning outcomes					
fields (thin th	of appli e confi	cation and limits of com	monly used instrume	nts and methods of p	and weaknesses and therewith practitioners. Competences wi- as well as skills within the practi-		
Course	es (type, I	number of weekly contact hours,	language — if other than Ge	rman)			
V (2) +	Ü (2)						
		Sessment (type, scope, langua ole for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether		
		nation (approx. 60 minut ssessment: German and					
Alloca	tion of	places					
Additi	onal inf	ormation					
Workle	oad						
150 h							
-	ing cycl	e					
		e: winter semester					
		LPO I (examination regulation	is for teaching-degree progra	ammes)			
Modul	e appe	ars in					
			ematics (2016)				
	-		Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015)				
Master's degree (1 major) Dusiness Management (2015) Master's degree (1 major) China Business and Economics (2016)							
Maste	Master's degree (1 major) International Economic Policy (2015)						
Maste	r's degr	ee (1 major) China Busin	ess and Economics (2 l Economic Policy (20	915)			

Module title					Abbreviation	
Accounting and Capital Markets					12-M-REKA-161-mo1	
Module coordinator Module offered b						
holder of the Chair of Business Management, Controlling Faculty of Management and Economics and Accounting						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
as their text, an ters. Ba sheet th blicity a	impac econo sed or neories are disc	ocuses on financial and at on internal and extern omic perspective has pr the theoretical founda to typical issues concern cussed. hing outcomes	nal recipients under co iority over detailed leg tions of information eq	nsideration of the ins al arrangements and conomics as well as o	stitutional setting. In regulations by the s decision-making and	this con- tandard set- balance
					water and financial a	
as infor nomic i ge abou valuatio	Initially, a fundamental knowledge about the conception and impact of management and financial accounting as information systems is acquired. In the following, the module mainly sharpens the understanding of the eco- nomic impacts of the configuration of management and financial accounting. What is more, extensive knowled- ge about possible impacts of changes in institutional general frameworks is covered. For example, changes in valuation standards, publicity rules or regulations about the distribution of profits in enterprises and on capital markets are considered.					g of the eco- ve knowled- hanges in
Courses	5 (type, n	number of weekly contact hours	, language — if other than Ge	rman)		
V (2) + ĺ						
		Sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
		nation (approx. 60 min ssessment: German an				
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachin	ig cycl	e				
Teachin	ig cycle	e: summer semester				
			ons for teaching-degree progra	immes)		
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		ee (1 major) Economath	ematics (2016)			
	-	ee (1 major) Business Ir		016)		
	-	ee (1 major) Business M				
		ee (1 major) China Busi				
		ee (1 major) Internation				
Master'	s degr	ee (1 major) China Lang	uage and Economy (20	016)		
Master's wit	th 1 majoi	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmather	-	page 481 / 590

Module title			Abbreviation			
Industr	ial Maı	nagement 1			12-M-SBM-161-m01	
Module	coord	inator		Module offered by		
holder o Manage		Chair of Business Manag	gement and Industrial	Faculty of Managem	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
(purcha	asing, r	dresses central issues c naterials management, leveloped that are relev	procurement logistics)			
Intende	ed leari	ning outcomes				
term, co re struc based o	Students learn the principles of performance-oriented optimization of all procurement activities to develop long- term, competitively sensitive potential for success. After completion of the module students are able to prepa- re structured, to goal-oriented analyze and to respond to performance-oriented issues of strategic procurement based on key instruments. Students are able to accurately classify the tasks of the procurement and to describe and discuss their strategic importance and dominate essential methods and procedures used in this area to ap-					
Courses	S (type, n	umber of weekly contact hours,	language — if other than Ger	man)		
V (2) + l Course		lternatively eLearning, S	5. WS			
		sessment (type, scope, langu		examination offered — if no	t every semester informati	on on whether
		le for bonus)				
b) prese c) term	entatio paper ge of a	mination (approx. 40 to n (approx. 20 minutes) (approx. 30 to 40 pages ssessment: German and bonus	and term paper (appro)	ox. 15 to 20 pages); (weighted 1:1) or	
Allocati	ion of p	olaces				
by lot a number	mong a r of pla	Should the number of a all applicants irrespectiv ces will be allocated in s they become available	ve of their subjects. (2) the same procedure. () Places on all course	es of the module wit	h a restricted
Additio	nal inf	ormation				
Worklo	ad					
150 h			_			
Teaching cycle						
Teachir	ng cycle	e: after announcement				
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	mmes)		
Module	appea	in and a second s				
	-	ee (1 major) Economath				
	-	ee (1 major) Business In ee (1 major) Business M	-	016)		
		· · · · · ·		concreted to Approve -	um rog da	nago (00 /
waster's wi	aster's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- ta record Master (120 ECTS) Wirtschaftsmathematik - 2016 page 482 / 590					page 482 / 590



Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation	
Econometrics 1 12-M-OE1-1					12-M-OE1-161-m01
Module coordinator				Module offered by	
holder	of the (Chair of Econometrics		Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Description: This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the model's explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions 10. Dummy variables					
Intende	ed lear	ning outcomes			
del and tically o of the r propert able to busine The cor	l under derive, nultiple ties of (test m ss and npeten	stand the role of econom calculate and interpret th e regression model. Furth DLS and know how to dea ultiple linear restrictions social science questions	etrics in science and ne coefficients, stand ermore, they are able al with transformed a on the parameters ar se serve as a prerequ	data analysis. In par ard errors and p-value to formally state an nd dummy variables nd will be able to app	ne classical linear regression mo- rticular, they learn how to analy- ues of a classic regression output d motivate the assumptions and . Additionally, students will be oly these tests to real economic, ics II", "Econometrics III", "Micro-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	Ü (2)				
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term Langua	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of p	olaces			

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: each semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title				Abbreviation	
Econometrics 2				12-M-OE2-161-m01	
Module	coord	inator		Module offered by	
holder	of the (Chair of Econometrics	-	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
Description: This module deals with the basics, concepts and methods of the generalized least squares (GLS) framework. Partly as a motivation for the GLS model and partly for its own right, different specification and data problems as well as violations of model assumptions of the OLS estimator (as introduced in "Ökonometrie I" ("Econometrics I")) are discussed. This includes multicollinearity, a test for structural breaks, heteroskedastiticy and autocorrela- tion. Linear algebra is used as formal aid. Syllabus: 1. Specification analysis 2. Multicollinearity 3. Heteroskedastiticy 4. Autocorrelated disruptive terms 5. Generalized least squares (GLS)					
Intende	ed learı	ning outcomes			
zed line data pro gnize, t to critic plemen above-r	ear regroblems oblems o asser ally as tation mentio	ression model (GLS) and and violations of the as ss and therefore adequat sess the use of the estim of empirical analyzes and	can apply and interpo sumptions of the class rely deal with these p ation methods in scie d to answer selected The competences acq	ret it. They are sensit ssical linear model ((roblems in theory an entific work, to work (economic) scientific uired in this courses	pts for estimating the generali- ized for specification problems, DLS) in order to be able to reco- nd practice. This enables them independently on adequate im- c issues if available data with the serve as a prerequisite for "Eco-
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + l	Ü (2)				
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
b) term	paper ge of a	nination (approx. 60 min (approx. 15 pages) ssessment: German and, bonus			
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	9			
Teachir	ng cycle	e: summer semester			

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title			Abbreviation		
Decision Support Systems			12-M-DSS-161-m01		
Module c	oordinator		Module offered by		
holder of	the Chair of Business Analyti	cs	Faculty of Managem	ent and Economics	
ECTS N	Nethod of grading	Only after succ. con	npl. of module(s)		
5 n	umerical grade				
Duration	Module level	Other prerequisites			
1 semest	er graduate				
Contents					
	se discusses advanced appro ired insights are used to desi				
Intended	learning outcomes				
 Uno Iso Sol sto 	cessfully completing the cour derstand the structure of clas late key elements from genera lve different classes of optim chastic) plement decision support sys	sic business decision Il problem description Iization problems (lir	problems s and convert them to		
Courses (type, number of weekly contact hours,	language — if other than Gei	man)		
V (2) + Ü	(2)				
	of assessment (type, scope, languareditable for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	ion on whether
b) oral ex approx. 3 Language	n examination (approx. 60 min camination (one candidate ea go minutes) e of assessment: German and e for bonus	ch: approx. 15 to 20 n	ninutes; groups of 2:	approx. 20 minutes	; groups of 3:
Allocatio	n of places				
Master's on. (2) Th cordance allocated	ne number of applications exe students of Wirtschaftsinforn ne remaining places will be al with (1) and (2) and the num I by lot among applicants fror	natik (Business Inforn located to students o ber of applications ex	nation Systems) will f other subjects. (3) V	be given preferentia When places are allo	l considerati- ocated in ac-
Additiona	al information				
Workload	1				
150 h		_			
Teaching	cycle				
Teaching	cycle: winter semester				
Referred	to in LPO I (examination regulation	s for teaching-degree progra	mmes)		
	ppears in				
Master's	degree (1 major) Economathe degree (1 major) Business Inf degree (1 major) Business Ma	ormation Systems (20	016)		
Master's with	1 major Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 488 / 590

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Management (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) exchange program Business Management and Economics (2022)

Module title					Abbreviation
Strateg	ic Deci	sions and Competition			12-M-SDC-161-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
1. Strate	egic sit	uations and decision ma	king		
2. Analy	yzing s	trategic situations with g	ame theory		
2. Nash	equili	ative simultaneous move brium ligopoly markets	games		
3. Dyna	mic Ga	imes			
2. Role 3. Mode	of com els of a	stage games and subgar mitment in dynamic situa dvertising ining and unions		n	
4. Repe	ated G	ames			
2. Collu	sion be	of coordination in long in etween competing firms tent monetary policy	teractions		
5. Statio	c game	s of incomplete Informat	ion		
1. Baye 2. Aucti		ash equilibrium			
6. Dyna	imic ga	mes of incomplete inforn	nation		
2. Perfe 3. Signa 4. Job-n	 Moral hazard and nonlinear pricing Perfect Bayesian equilibrium Signalling games Job-market signalling Corporate investment and capital structure 				
Intended learning outcomes					
used to of simp tions. T ge from nomics to make ting cas model.	After successful completion of this class, the students should be familiar with economic models that can be used to shape managerial strategy and aid in making decisions in strategic situations. Especially, by making use of simple two stage games, they should be able to formulate dynamic policies in a wide variety of strategic situations. The students will acquire an intuitive understanding of the underlying economic mechanisms which emerge from the analysis of game theoretic models for a wide variety of strategic situations arising in industrial economics, marketing, organization, finance, trade and labor. Moreover, they will acquire skills which enable them to make predictions in strategic situations by making use of simple mathematical models. By means of completing case based exercises, they will learn to transform real life business situations to an appropriate economic model. Based on an analysis of this model, they will be able to devise optimal strategies and derive the corresponding managerial implications.				

Master's with 1 major Economathematics (2016)

The course will be taught in English.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (2)

Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 120 minutes) or
b) term paper (approx. 15 to 20 pages)
Language of assessment: German and/or English
Assessment offered: In the semester in which the course is offered creditable for bonus

Allocation of places

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Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module title					Abbreviation	
Managerial Accounting in the Company Management 12-M-CIU-161-mo1						
Module coordinator				Module offered by		
	of the (countir	Chair of Business Manage	ement, Controlling	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade		• • • • •		
Duratio		Module level	Other prerequisites	;		
1 seme	ester	graduate	, <u>, ,</u>			
Conter	nts	0	1			
cusses tion is with te	s how to a unive am bui	involve stakeholders in rsal principle. The modu	change, what motiva le covers projects like ployee survey, or dev	ites them to embrace e merging two depar eloping a new missio	oo. For example, the module dis e change, and whether participa tments, restarting a department on statement. The majority of th SMEs.	
Intend	ed lear	ning outcomes				
strume in thes lutions Course	ents in c se proce s in cha es (type, r	hange processes can be	questioned. Student their knowledge for	ts are able to identify own future projects a	alyzed and the use of typical in / the typical pitfalls and hurdles as well as to create their own so	
V (2) +	Ü (2)					
module i	s creditab	le for bonus)		examination offered — if no	ot every semester, information on whether	
		nation (approx. 60 minut ssessment: German and				
Allocat	tion of _l	olaces				
Additio	onal inf	ormation				
Worklo	oad					
150 h			_			
Teachi	ng cycl	e				
Teachi	ng cycle	e: no courses offered				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appea	ars in				
Master	r's degr	ee (1 major) Economathe	matics (2016)			
Master's degree (1 major) Business Management (2015)						
Master's degree (1 major) China Business and Economics (2016)						
	-	ee (1 major) International	•	-		
Master	r s degr	ee (1 major) China Langu	age and Economy (20	016)		

Module title					Abbreviation		
Advanced Financial Accounting (German GAAP, IFRS)					12-M-ER-161-m01		
Module coordinator				Module offered by			
Dean of the Faculty of Business Management and Econo- mics					nent and Economics		
ECTS	Metho	od of grading	Only after succ. con	Only after succ. compl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites	i i i i i i i i i i i i i i i i i i i			
1 seme	ster	graduate					
Conten							
groups, gly com the Eur to prep pret cod dents v ticular, dards. spondi identify are cov will imp Intende Studen porting solidate	Large and mostly multinational companies are key players in our globalized economy. A wide variety of interest groups, such as investors, need access to reliable information about the economic activities of these increasingly complex companies to make the right decisions. To contribute to a better functioning of capital markets in the European Union, publicly traded companies have to apply a single set of international accounting standards to prepare their consolidated financial statements. This module covers the necessary steps to prepare and interpret consolidated financial statements under IFRS (International Financial Reporting Standards). It provides students with a systematic approach and interpretation of group accounting according to international rules. In particular, the module coveys the basic principles of group accounting and an in-depth knowledge of relevant standards. Students get to know different types of company mergers, acquisitions, and investments and the corresponding accounting methods. They will learn about the relevance of consolidated financial statements, how to identify groups and understand the consolidation process. In addition, various recent topics of group accounting are covered, e. g., positive and negative goodwill, non-controlling interests, intra-group transactions, and good-will impairment. Intended learning outcomes Students understand the key concepts and elements of group accounting under IFRS (International Financial Reporting Standards). They also have an in-depth knowledge of the steps necessary to prepare and interpret consolidated financial statements following international accounting rules. In particular, students can recognize the need for consolidated financial statements, solve relevant consolidation problems, and critically evaluate consolidated financial statements following international accounting rules. In particular, students can recognize the need for consolidated financial statements, solve relevant consolidation problems, and critically evaluate conso						
Course	S (type, r	umber of weekly contact hour	s, language — if other than Gei	rman)			
Ü (2) +	V (2)						
		essment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether	
	ge of a	nation (approx. 60 to 1 ssessment: German ar bonus					
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Workload							
150 h							
Teaching cycle							
Teaching cycle: no courses offered Referred to in LPO I (examination regulations for teaching-degree programmes)							
Referre	d to in	LPOI (examination regulati	ons for teaching-degree progra	ammes)			
 Modul-		arc in					
Module	: appea	us III					
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 493 / 590	

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
exchange program Business Management and Economics (2022)

Module title					Abbreviation		
Information Processing within Organizations 12-IV-161-m01							
Module coordinator				Module offered by			
Dean of mics	Dean of the Faculty of Business Management and Econo- mics						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	numerical grade						
Duratio	n	Module level	Other prerequisites	;			
1 semes	ster	graduate					
Conten	ts						
field. It	covers	ays the foundation for ur different application are existing structures.					
 C D B Ir C D P 	hange ata sto usines iternal loud, o ata and rocess	ion into information syst and project managemen orage, processing, and st s logic, algorithms, optir vs. external integration, operational models, platf d IT security /task mining, hyperautor	t, requirements engin ructures nization, system arch technical interfaces forms, distributed led	nitecture, microservic ger technology			
			anizations" module	aims to achieve the f	following learning o	itcomes.	
 The "Information Processing within Organizations" module aims to achieve the following learning outcomes: Knowledge of Information Systems: Students understand and apply core concepts such as data processing and system architecture, can integrate new technologies into systems, and develop practical applications. Analysis of Business Processes: They recognize and analyze business information systems, model business processes, and optimize system landscapes using ERP systems and project management methods. Development of Business Solutions: Students use their knowledge of modern technologies and business in- telligence to develop integrative business solutions and solve operational challenges. Evaluation of Technology Trends: They have a deep understanding of IT security and modern technologies, cri- tically assess technology trends, and lead their implementation in business contexts. 							
Courses	S (type, n	umber of weekly contact hours,	anguage — if other than Ge	rman)			
V (2) + (Ü (2)						
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)							
written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus							
Allocation of places							
Additional information							
Workload							
150 h							
Teachir	ng cycl	e					
Teachin	ng cycle	e: winter semester					
Master's wi	th 1 major	Economathematics (2016)		• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 495 / 590	

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

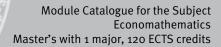
••
Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)



Applied Decision Theory

(20 ECTS credits)





Compulsory (10 ECTS credits)

Module title					Abbreviation		
Advanc	Advanced Microeconomics 12-M-AM-161-m01						
Module coordinator				Module offered by			
	holder of the Chair for Economics, Contract Theory and In- formation Economics						
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites	Other prerequisites			
1 seme	ster	graduate					
Conten	ts						
lysis an al decis riskless and lim Through and tall (e.g., di it will a introdu ant tha The exp • N • Je Intende	In a nutshell, microeconomic theory considers the behavior of individual economic agents and builds from this foundation to a theory of aggregate economic outcomes, which then can be applied for conducting welfare ana- lysis and giving policy advice. This lecture addresses the core building block of this thought complex: individu- al decision making and behavior. Specifically, students will come to understand in detail the standard models of riskless consumer choice, choice under risk and intertemporal choice and learn about the empirical challenges and limitations of these models. Throughout the lecture, we will work with precise mathematical formalizations of the ideas that we want to think and talk about. In consequence, a solid understanding of the mathematical toolbox of standard microeconomics (e.g., differential calculus and constrained optimization; basic set theory; integration by parts) will be helpful as it will allow to focus on the underlying economic intuition. However, every required mathematical concept will be introduced and explained along the way, such that a strong interest in formal economic analysis is more import- ant than an advanced mathematical background. The exposition is primarily based on the standard graduate textbooks • Mas-Colell, Whinston and Green (1995): "Microeconomic Theory" • Jehle and Reny (2001): "Advanced Microeconomic Theory" After completing the course students will be able to						
		e involved methods to gi ze in which real life situat					
_		umber of weekly contact hours, l					
V (2) +							
		eessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, information on whether		
a) written examination (approx. 60 to 90 minutes) or b) written examination (questions concerning mathematical methodology; approx. 120 minutes) or c) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus							
Allocation of places							
Additio	nal inf	ormation					
Worklo	ad						
150 h	150 h						

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Module title				Abbreviation		
Contract Theory 12-M-CT-161-m01						
Module coordinator				Module offered by		
	holder of the Chair for Economics, Contract Theory and In- formation Economics					
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	i		
1 semester graduate						
Conten	ts					
ons are characterized by asymmetric distribution of information – i.e., at least one of the parties participating in a transaction usually is privy to information that the remaining parties do not have access to. This asymmetric distribution of information subsequently was recognized to be a major impediment for transactions to be eco- nomically efficient. Contract theory addresses the question how the inefficiencies arising from asymmetric dis- tribution of information can best be mitigated by appropriate design of the contractual (or, more generally, insti- tutional) framework that governs the transaction under consideration. This lecture covers the baseline models of "moral hazard" (i.e., situations where one party has private knowledge after a contract has been signed) and "adverse selection" (i.e., situations where one party has private knowledge before a contract is signed). As appli- cations we will address questions discussed in organizational, personnel or industrial economics, such as incen- tive design within organizations or the design of labor law regulations and competition laws. Even though we will work with precise mathematical formalizations of the ideas that we want to think and talk about, this course requires little more than a solid understanding of basic differential calculus. More important than having a solid mathematical background is having a strong interest in formal economic analysis and fun with logical thinking and puzzle solving. The exposition is primarily based on the following textbook: Laffont and Martimort (2002): "The Theory of Incentives"						
 After completing the course students will be able to explain essential findings of contract theory, apply the involved methods to given stylized examples on their own, interpret the properties of real-life contracts as the outcome of the interaction between two or more contracting parties in the presence of asymmetric information, evaluate government interventions with regard to their effect on the efficiency properties of the interaction between the contracting parties. 						
		umber of weekly contact hours, l	anguage — if other than Ge	rman)		
V (2) + I						
			ge — if other than German,	examination offered — if no	t every semester, information on whether	
a) written examination (approx. 60 minutes) or						
b) term paper (approx. 15 pages)						
Language of assessment: German and/or English						
Allocation of places						
Additio	nal info	ormation				
A	41	Economathematics (2016)	INALL VA/25 In comment	generated 10-Apr-2025 • exa	am reg da. nage 501/500	

Workload

150 h

Teaching cycle

Teaching cycle: no courses offered

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)



Interdisciplinary Seminars and Workshops

(10 ECTS credits)

Module title					Abbreviation	
Theory of Industrial Organization 1					12-M-Tl1-161-m01	
Module coordinator				Module offered by		
holder	of the O	Chair of Industrial Econor	nics	Faculty of Managem	nent and Economics	
ECTS Method of grading Only after succ. com			Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
 Theory of industrial organisation: Monopoly pricing Nonlinear pricing and mechanism design Dynamic pricing: experience goods, durable goods Oligopoly pricing Static price and quantity competition in homogeneous and differentiated goods markets Comparative statics Equilibrium market structure Dynamic competition in oligopoly markets Subgame perfect equilibrium and models of dynamic competition Repeated games and collusion 4. Strategic behaviour by incumbent firms Entry deterrence and predation Signalling and reputation Reference Dependent Preferences and Framing Effects 						
		l be taught in English.				
		ning outcomes	Leonation of the t	naviladara (° 1		
Students which complete this class will acquire a working knowledge of advanced theoretical models of compe- tition in oligopoly markets as well as sophisticated pricing techniques in monopoly markets. They will learn the conditions under which the predictions of these models are valid. They will become familiar with applications of advanced game theoretic tools, such as dynamic models of competition, for studying interactions between firms in markets. By means of comprehensive exercises, they will apply the methods they learn in class to practical- ly relevant problems. They will be in a position to read academic papers on related topics, assess the strengths and weaknesses of an approach, summarize and comment on these papers and suggest possible extensions.						
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) + Ü (2)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 60 to 120 minutes) or b) term paper (approx. 15 to 20 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	ion of p	olaces				
Additional information						

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016)

Master's degree (1 major) Business Information Systems (2016)

Master's degree (1 major) Business Management (2015)

Master's degree (1 major) China Business and Economics (2016)

Master's degree (1 major) International Economic Policy (2015)

Master's degree (1 major) China Language and Economy (2016)

Module title Abbreviation						
Theory of Industrial Organization 2 12-M-Tl2-161-m01						
Module	e coord	inator		Module offered by		
holder of the Chair of Industrial Economics Faculty of Management and Economics						
ECTS	Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
This co Outline 1. The c nance, 2. Cont 3. Com 4. The c 5. The c 6. Inter 7. Forec Intende After cc (i) expl (ii) app (iii) rec	Description: This course discusses vertical contracts in supply chains and their impact on competition. Outline of syllabus: 1. The classic problem of double marginalisation and its solution by nonstandard contracts (resale price mainte- nance, nonlinear pricing (rebates), exclusive territories, exclusive dealing etc.) 2. Contracts for service 3. Common agency 4. The delegation principle 5. The commitment problem 6. Interlocking relationships 7. Foreclosure by vertical contracts or mergers Intended learning outcomes After completing the course students are able to (i) explain the results of theoretical industrial economics on vertical contracts; (ii) apply the involved methods to given simple examples on their own;					
		e impact of certain verti				
	S (type, n	umber of weekly contact hours	, language — if other than Ge	rman)		
		s essment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
b) term Langua	paper ge of a ment o	nination (approx. 60 to (approx. 15 to 20 pages ssessment: German and ffered: In the semester bonus) d/or English	offered		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
		e: no courses offered				
		LPO I (examination regulatio	ns for teaching-degree progra	mmes)		
		-	· · · ·			
Module	e appea	irs in				
Master's wi	ith 1 majoı	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 506 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title Abbreviation						
Microe	conom	etrics			12-M-MIK-161-m01	
Module	e coord	inator		Module offered by		
holder of the Chair of Econometrics				Faculty of Managen	nent and Economics	
ECTS Method of grading Only after succ. compl. of mo			npl. of module(s)			
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
data is plainec Outline	adequ d in det	ately addressed. The n ail.	and concepts for the a naximum likelihood me			
2. Mod 3. Mod	els for els for	roeconometrics? qualitatively depender limited dependent vari Ident models				
2. Ronr 3. Verb	ne, W. ning, G. eek, M	H.: Econometric Analys : Microeconometrics, S .: Modern Econometric n, R., Boes, S.: Analysi	Springer Verlag.	r Verlag.		
Intende	ed lear	ning outcomes				
qualita	tively a		e of the maximum likeli variables. They can aut sults meaningfully.			
Course	S (type, r	number of weekly contact hour	s, language — if other than Gei	rman)		
Ü (2) +	Ü (2)					
		eessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informati	ion on whether
		mination (approx. 6o n	ninutes) or			
		(approx. 15 pages)	d /or English			
credita	•	ssessment: German ar bonus				
Allocat	ion of j	olaces				
			,			
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachir	ng cycle	e: after announcement				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	immes)		
Module	e appea	ars in				
Maghar	ith	From on which we will a first for the		an available - Arri		
wiaster's wi	itri 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 508 / 590

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)



Module title Abbreviation						
Optima	al Tax T	heory			12-M-F4-161-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Public Finance		Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
5	nume	rical grade				
Duration Module level Other prerequisites						
1 seme	1 semester graduate					
Conten	ts					
The con for a ta pital. Examin studen Readin Outline 1. Optin 2. Optin 3. Optin 4. Inter Intende	Contents Description: The course will discuss the design of an optimal tax system. First, students will learn what criteria have to be met for a tax system to be optimal. Lectures will introduce key rules for taxing commodities as well as income and capital. Examining specific taxation issues such as eco-tax, family taxation and the taxation of international enterprises, students will then gain more in-depth insights into these rules. Reading: Lecture notes will be provided. Outline of syllabus: 1. Optimal commodity taxation 2. Optimal income taxation 3. Optimal taxation of families 4. International tax competition					
After co	ompleti	ng this module studer	Its have a basic unders	tanding of what is m	eant with "optimal ta	axation".
They ar	re able	to apply this concept t	o specific normative qu , where they discuss sp	estions of tax policy	in practice. Student	s also learn
Course	S (type, r	number of weekly contact hou	rs, language — if other than Ge	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, lan le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
b) term	i paper	mination (approx. 60 n (approx. 15 pages) ssessment: German al				
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi						
		e: winter semester				
Referre	ed to in	LPO I (examination regulat	ions for teaching-degree progra	ammes)		
Module						
	-	ee (1 major) Economat ee (1 major) Business I				
			iness and Economics (2	2016)		
•	-	r Economathematics (2016)	JMU Würzburg	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 510 / 590



Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

Module	e title				Abbreviation	
Manag	erial A	nalytics & Decision Maki	ng		12-M-MADM-161-m01	
Module	e coord	inator		Module offered by		
holder	of the	Chair of Logistics and Qu	antitative Methods	Faculty of Managem	nent and Economics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
5	1	rical grade				
<u>J</u> Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten		gladdale	[
a diver	se set o				ethods to structure and solve dern methods with the help of	
Intende	ed lear	ning outcomes				
(ii) app sion m (iii) imp	ly impo aking; plemen	t advanced analytical me	pirical frameworks to ethods to support dec	ision making under	that evaluate good and bad dec risk.	
Course	S (type, 1	number of weekly contact hours,	language — if other than Ger	rman)		
V (2) +	Ü (2)					
		sessment (type, scope, langua le for bonus)	age — if other than German,	examination offered — if no	t every semester, information on whether	
b) term	paper age of a	mination (approx. 60 mir (approx. 15 to 20 pages) ssessment: German and bonus				
Allocat	ion of	places				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: winter semester				
		LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
		ee (1 major) Economathe	matics (2016)			
	-	ee (1 major) Business Inf		016)		
	-	ee (1 major) Business Ma	•			
Master	's degr	ee (1 major) China Busin	ess and Economics (2	2016)		
	Master's degree (1 major) China Business and Economics (2016)					
	's degr	ee (1 major) Internationa				

Modul	e title				Abbreviation
Humai	n Resou	rce Management and In	dustrial Relations		12-M-HRM-161-m01
Modul	e coord	inator		Module offered by	
	of the (Chair for Human Resour	ce Management and	Faculty of Managen	nent and Economics
ECTS					
5	nume	rical grade			
Duration Module level Other prerequisites					
1 seme	ester	graduate			
Conte	nts				
techni	ques an Is the di		n the areas of human r		advanced theories, estimation ent and institutional frameworks
		Human Resource Manag	gement & Industrial Re	lationships	
		employment contract [-	1 -	
Chapte	er 2: Mo	tivation [formal model]			
Chapte	er 3: Em	ployee resistance again	ist reorganisations [en	npirical study]	
Chapte	er 4: The	e role of works councils	[formal model]		
Chapte	er 5: Wo	rks councils and the em	nployer wage structure	[empirical study]	
Chapte	er 6: The	e behaviour of labour ur	nions [formal model]		
Chapte	er 7: Lea	arning process of emplo	yers [formal model an	d empirical study]	
Chapte	er 8: De	mographic challenges o	of HRM [formal model a	and empirical study]	
Intend	ed lear	ning outcomes			
	npirical				theories, estimation technique lations on the basis of scientific
Course	es (type, r	number of weekly contact hours	, language — if other than Ge	rman)	
V (2) +	Ü (2)				
		sessment (type, scope, langu le for bonus)	uage — if other than German,	examination offered — if no	t every semester, information on whether
a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German and/or English					
Alloca	tion of p	olaces			
mes B matior China	usiness 1 Syster Busines	Management, Internati ns), Wirtschaftsmathem	onal Economic Policy natik (Mathematics for al of 20 places will be	or Economics, Wirtsc Economics) and Chin allocated to student	of the Master's degree program haftsinformatik (Business Infor nese and Economics as well as s of other subjects; should the

Master's with 1 major Economathematics (2016)

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: summer semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Information Systems (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Applied Human Geography (2017)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
exchange program Business Management and Economics (2022)

Module title Abbreviation					Abbreviation
Interna	tional	Trade and the Multinatio	12-M-ITMF-161-m01		
Module	e coord	inator		Module offered by	
holder of the Chair of International Eco			nomics	Faculty of Managem	nent and Economics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5		rical grade			
Duratio		Module level	Other prerequisites		
1 seme		graduate	<u> </u>		
Conten					
scher-C trade. T the sta)hlin) fo The fina ndard r	ollowed by theories base	d on monopolistic an geneity and multinati	d oligopolistic comp	advantage (Ricardo and Heck- petition to explain intra-industry ermits the Armington model and
<u>Outline</u>					
l Ricard	lian Tra	de Theory			
II Hecks	scher-C	hlin Trade Theory			
III New	Trade 1	Theory: Intra-Industry Tra	de, Increasing Return	s to Scale, Imperfect	t Competition
IV Firm	Hetero	geneity, Trade and FDI			
V The M	Aultina	tional Firm			
<u>Literatu</u>	ire:				
further	referer				detailed list of references with lecture. Material from the followi-
Helpma	an, E. (2	2011). Understanding Glo	bal Trade. Princeton	University Press.	
Feenstr Edition		(2016). Advanced Interna	ational Trade. Theory	and Evidence. Prince	eton University Press, Second
Caves,	R., R.W	. Jones and J.A. Frankel (2007). World Trade a	nd Payments. Addisc	on Wesley
Bhagwa Press	ati, J., A	A. Panagariya and T. N. Sr	inivasan (1998). Lect	ures on Internationa	l Trade. Second Edition. MIT
Gandol	fo, G. (1998). International Trad	e Theory and Policy.	Springer-Verlag, Berl	in and New York
Markus	en, J.R	., J.R. Melvin, W.H. Kaemp	ofer, K. E. Maskus (19	95). International Tra	ade. McGrawHill
Barba N Press	Vavaret	ti, G. and A.J. Venables (2004). Multinational	Firms in the World E	conomy. Princeton University
Intende	ed lear	ning outcomes			
ments	of spec	ialization patterns in the	global economy. The	y learn to analyze, d	of world trade and the develop- iscuss and defend these deve- ted with the ongoing deepening

of the international division of labor, in particular the repercussions of the global economy on national economies.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2) + V (2)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 to 90 minutes) or b) term paper (approx. 15 pages)

Language of assessment: German and/or English

Allocation of places

Additional information

Workload

150 h

Teaching cycle

Teaching cycle: winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Master's degree (1 major) Economathematics (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) Media Communication (2016) Master's degree (1 major) China Language and Economy (2016) Master's degree (1 major) Media Communication (2018) Master's degree (1 major) Media Communication (2019)



Interdisciplinary Seminars and Workshops

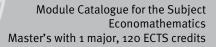
(10 ECTS credits)

Module	title				Abbreviation					
Resear	ch in G	roups - Dynamical Sys	tems and Control Theo	ry	10-M=GDSC-161-m	01				
Module	e coord	inator		Module offered by						
Dean of	f Studie	es Mathematik (Mathei	matics)	Institute of Mathem	natics					
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)						
10	nume	rical grade								
Duration Module level Other prerequisites										
1 semester graduate										
Conten		Sidduite								
		orn tonics in dynamica	 l systems and control t	haan						
Recomr	mende	d previous knowledge:	dule "Mathematical Co		ntrol Theory" is requi	red.				
Intende	ed learı	ning outcomes								
			nporary research probl this field and can app			eory. He/				
Course	S (type, n	umber of weekly contact hour	s, language — if other than Gei	rman)						
V (2) + 9	S (2)	t in: German and/or En								
Method	d of ass		guage — if other than German,	examination offered — if no	t every semester, informat	on on whether				
	ment o		English in which the course is	offered and in the su	ubsequent semester					
Additio	nal inf	ormation								
Worklo	ad									
300 h			i							
Teachir	ng cycl	٩								
	15 0900									
Doforro	d to in		ons for teaching-degree progra							
Referre			uns for teaching-degree progra							
Module										
	-	ee (1 major) Mathemati								
	-	ee (1 major) Economatł ee (1 major) Mathemati								
	-	•	n MINT Teacher Educat	ion PLUS Flite Netwo	ork Bayaria (FNR) (a	D16)				
			Education PLUS, Elite							
		ee (1 major) Mathemati		Live Contraction (Live	_, (2010)					
	-		•	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)				
						Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)				
Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Master's degree (1 major) Mathematical Physics (2020)										
	Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021)									
Master'	-		-							
Master' Master'	's degr	ee (1 major) Economath	-	2)						
Master' Master' Master'	's degro	ee (1 major) Economath	nematics (2021) onal Mathematics (202	2) generated 19-Apr-2025 • exa	ım reg da-	page 518 / 590				



Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023)

Modul	e title				Abbreviation	
Resear	ch in G	roups - Measure and In	itegral		10-M=GMAI-161-m	01
Module	e coord	inator		Module offered by		
Dean of Studies Mathematik (Mathematics)				Institute of Mathem	natics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
10	1	rical grade				
Duratio		Module level	Other prerequisites			
Conten						
functio	ns and	asure and integration t Lebesgue integrals, se n rule), Lp spaces and a	lected applications, e.	g. product measures	s (with Fubini's theo	
		ning outcomes			· ·	
	-	ains insight into conter		ems in measure and	integration theory.	He/She ma-
		d techniques in this fie				
		umber of weekly contact hours	· · · ·	· ·		
V (2) +	-					
		t in: German and/or En	glish			
Metho	d of ass	essment (type, scope, lang	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
		le for bonus)				
-		o minutes)				
		ssessment: German or				
		ffered: In the semester	in which the course is	offered and in the su	ibsequent semester	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ummes)		
Module	annes	urs in				
		ee (1 major) Mathemati	<u>(2016)</u>			
		ee (1 major) Economath				
	-	ee (1 major) Mathemati				
	-	ning degree Gymnasium	-	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	016)
		y course MINT Teacher				
	-	ee (1 major) Mathemati				
		ning degree Gymnasiun				020)
		y course MINT Teacher		Network Bavaria (EN	B) (2020)	
master		ee (1 major) Mathemati ee (1 major) Economath				
	5 uegli	ce (I major) Economidal	icinatics (2021)			
Master	-	ee (1 major) Computatio	onal Mathematics (202	2)		
Master Master	's degr	ee (1 major) Computatio ee (1 major) Mathemati		2)		
Master Master Master	's degr 's degr	ee (1 major) Computatio ee (1 major) Mathemati Economathematics (2016)	cs (2022)	2) generated 19-Apr-2025 • exa		page 520 / 590



Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Economathematics (2025)

	e title				Abbreviation	
Resear	ch in G	roups - Numerical Math	nematics and Applied /	Analysis	10-M=GNMA-161-m	01
Module	e coord	inator		Module offered by	Nodule offered by	
Dean of	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10		rical grade				
Duration Module level Other prerequisites						
1 semester graduate						
		glauuale				
Conten						
Recom Depend	mende ding on	s in numerical mathem d previous knowledge: the content, basic and equired. In case of doul	advanced knowledge	from different areas	of analysis and/or n	umerical ma
Intende	ed lear	ning outcomes				
The stu	dent g	ains insight into a conte ers advanced technique				ied analysis.
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
V (2) + Module		t in: German and/or En	glish			
	_	sessment (type, scope, lang		examination offered — if no	ot every semester, informati	on on whether
		le for bonus)				
Langua	ige of a	o minutes) ssessment: German or ffered: In the semester		offered and in the s	ibsequent semester	
Allocat	-			onerea ana mare s	abbequent bennebter	
Allocal						
		Jiaces				
 Additio	onal info	ormation				
 Additio Worklo						
 Worklo	ad	ormation				
 Worklo 300 h	ad	ormation				
 Worklo 300 h Teachir	ad ng cycl	ormation e	ons for teaching-degree progra	ammes)		
 Worklo 300 h Teachir	ad ng cycl	ormation	ons for teaching-degree progra	ammes)		
 Worklo 300 h Teachir Referre	ad ng cycl ed to in	ormation e LPOI (examination regulatio	ons for teaching-degree progra	ammes)		
 Worklo 300 h Teachir Referre Module	ad ng cycl ed to in e appea	ormation e LPOI (examination regulation nrs in		ammes)		
 Worklo 300 h Teachir Referre Module Master	ad ng cycl ed to in e appea 's degri	e UPOI (examination regulation urs in ee (1 major) Mathemati	cs (2016)	ammes)		
 300 h Teachir Referre Module Master Master	ad ng cycl ed to in e appea 's degru	ormation e LPO I (examination regulation ars in ee (1 major) Mathemati ee (1 major) Economath	cs (2016) Jematics (2016)	ammes)		
 300 h Teachir Referre Module Master Master Master	ad ng cycl ed to in 's degru 's degru 's degru	e UPOI (examination regulation urs in ee (1 major) Mathemati	cs (2016) iematics (2016) cal Physics (2016)			
 Worklo 300 h Teachir Referre Module Master' Master' Master' Master'	ad ng cycl ed to in 's degre 's degre 's degre 's degre	e LPOI (examination regulation urs in ee (1 major) Mathemation ee (1 major) Mathemation	cs (2016) Iematics (2016) cal Physics (2016) Dnal Mathematics (201	6)	ork Bavaria (ENB) (20	
 300 h Teachin Referre Master Master Master Master Master	ad ng cycl ed to in 's degre 's degre 's degre 's degre 's teacl	e EPOI (examination regulatio	cs (2016) Iematics (2016) cal Physics (2016) onal Mathematics (201 n MINT Teacher Educat	6) ion PLUS, Elite Netw		
 300 h Teachir Referre Master' Master' Master' Master' Supple	ad ng cycl ed to in 's degru 's degru 's degru 's degru 's teach mentau	e E E E E E E E E E E E E E	cs (2016) Iematics (2016) cal Physics (2016) onal Mathematics (201 n MINT Teacher Educat Education PLUS, Elite	6) ion PLUS, Elite Netw Network Bavaria (EN		
 300 h Teachir Referre Master Master Master Master Supple Master	ad ng cycl ed to in 's degre 's degre 's degre 's degre 's teach mentai 's degre	e LPO I (examination regulation regulation trs in ee (1 major) Mathemati ee (1 major) Economath ee (1 major) Mathemati ee (1 major) Computation hing degree Gymnasium y course MINT Teacher	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 n MINT Teacher Educat Education PLUS, Elite onal Mathematics (201	6) ion PLUS, Elite Netw Network Bavaria (EN		
 300 h Teachin Referre Master Master Master Master Supple Master Master Master	ad ng cycl ed to in 's degre 's degre 's degre 's teach mentar 's degre 's degre 's teach	e LPO I (examination regulation ee (1 major) Mathematic ee (1 major) Mathematic ee (1 major) Mathematic ee (1 major) Mathematic ee (1 major) Computation hing degree Gymnasium y course MINT Teacher ee (1 major) Computation	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 n MINT Teacher Educat Education PLUS, Elite onal Mathematics (201 cs (2019) n MINT Teacher Educat	6) ion PLUS, Elite Netw Network Bavaria (EN 9) ion PLUS, Elite Netw	B) (2016) ork Bavaria (ENB) (20	016)

Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025)

Module	e title				Abbreviation	
Resear	Research in Groups - Robotics, Optimization and Control Theory10-M=GROC-161-mo1					
Module	e coord	inator		Module offered by	Module offered by	
Dean o	fStudie	es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	1	rical grade		•		
Duration Module level Other prerequisites						
1 seme		graduate				
Conten		Sidudic				
				1.0		
Selecte	ed mod	ern topics in robotics, o	optimisation and contro	ol theory.		
Deserve						
		d previous knowledge: the contents of the mo	dula "Mathomatical Co	ntral Theory" or "Co	atrol Theory" is requi	irod
					ittot meory is requi	iieu.
	-	ning outcomes				1.0
		ains insight into conten dvanced techniques in				l theory. He/
		· · · ·	· · ·	• • • •	problems.	
		umber of weekly contact hours	s, language — if other than Ger	rman)		
V (2) +	• •					
Module	e taugh	t in: German and/or En	glish			
		s essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
-		o minutes)	Fueliel			
		ssessment: German or ffered: In the semester		offered and in the su	ibsoquent comester	
	-				absequent semester	
Allocat	lon of p	Diaces				
Additio	onal info	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	٩				
reaction	-5 cycl	•				
Referre	ed to in	LPOI (examination regulation	ons for teaching-degree progra	immes)		
Module	e appea	nrs in				
Master	's degr	ee (1 major) Mathemati	cs (2016)			
Master	's degr	ee (1 major) Economath	iematics (2016)			
Master	's degr	ee (1 major) Mathemati	cal Physics (2016)			
	-	ee (1 major) Computatio				
		ning degree Gymnasiun				016)
		y course MINT Teacher			B) (2016)	
	-	ee (1 major) Computatio		9)		
	-	ee (1 major) Mathemati	-			`
		ning degree Gymnasiun				020)
		y course MINT Teacher		Network Bavaria (EN	В) (2020)	
waster	s degr	ee (1 major) Mathemati	cai Physics (2020)			
Master's w	ith 1 majoı	r Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • ex	am. reg. da-	page 524 / 590
			ta record Master	(120 ECTS) Wirtschaftsmathe	matik - 2016	

Master's degree (1 major) Economathematics (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Mathematical Physics (2022)

Master's degree (1 major) Economathematics (2022)

exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Economathematics (2025)

Module title Abbreviation						
Resear	ch in G	roups - Time Series Ana	alysis		10-M=GTSA-161-mc	01
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS		od of grading	Only after succ. con			
10 numerical grade						
Duration Module level Other prerequisites						
1 seme		graduate				
Conten		Siduate				
		orn tonics in time series				
Selecte	a moa	ern topics in time series	s analysis.			
Recom	mende	d previous knowledge:				
Basic k	nowled	lge of stochastics is rec	uired, such as that ac	quired in the "Stocha	astics 1" module. Kn	owledge of
the con	tents c	of the module "Stochast	ics 2" is also recomme	ended.		
Intende	ed lear	ning outcomes				
The stu	dent g	ains insight into conten	porary research probl	ems in time series ar	nalysis. He/She mas	sters advan-
ced tec	hnique	s in this field and can a	pply them to complex	problems.		
Course	S (type, r	umber of weekly contact hours	, language — if other than Ger	man)		
V (2) +	S (2)					
Module	e taugh	t in: German and/or En	glish			
Method	d of ass	essment (type, scope, lang	uage — if other than German, o	examination offered — if no	ot every semester, informat	ion on whether
module is	s creditab	le for bonus)				
		o minutes)				
		ssessment: German or				
		ffered: In the semester	in which the course is	offered and in the su	ibsequent semester	,
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
	<u> </u>					
Poforro	d to in	LPO I (examination regulation		mmoc)		
Referre				inities)		
Module						
		ee (1 major) Mathemati				
	-	ee (1 major) Economath ee (1 major) Mathemati				
	-	ning degree Gymnasium	•	ion PLUS, Flite Netwo	ork Bavaria (FNR) (2	016)
		y course MINT Teacher				
		ee (1 major) Mathemati			, (,	
	-	ning degree Gymnasium	-	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)
		y course MINT Teacher				
Master	's degr	ee (1 major) Mathemati	cal Physics (2020)			
Master	's degr	ee (1 major) Economath	ematics (2021)			
Mactoria	th 1 maio	r Economathematics (2016)	IMIT Million -	generated 19-Apr-2025 • exa	am rag da	nage 526 / 500
mastel S WI	ui i illajo	Leonomathematics (2010)	-	(120 ECTS) Wirtschaftsmathe	-	page 526 / 590

Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Economathematics (2025)

Module	title				Abbreviation	
Resear	ch in G	roups - Statistics			10-M=GSTA-161-mc	01
Module	e coord	inator		Module offered by		
Dean of	f Studi	es Mathematik (Mathem	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites	;		
1 seme	ster	graduate				
Conten	ts		-1			
Selecte	d mod	ern topics in statistics.				
Basic k the con	nowled tents o	d previous knowledge: dge of stochastics is req of the module "Stochast ge may also be helpful;	ics 2" is also recomme	ended. Depending or	n the content of the o	
Intende	ed lear	ning outcomes				
		ains insight into contem eld and can apply them			/She masters advan	ced techni-
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (2) +	S (2)	t in: German and/or Eng				
Method	d of ass	sessment (type, scope, languile for bonus)		examination offered — if no	t every semester, informat	on on whether
		o minutes)	_			
		ssessment: German or l	English			
Assess	ment o	ffered: In the semester	in which the course is	offered and in the su	ıbsequent semester	
Allocat	ion of _l	olaces				
			_			
Additio	nal inf	ormation				
			_			
Worklo	ad					
300 h			_			
Teachir	ıg cycl	e	_			
			_			
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Mathematio	cs (2016)			
	-	ee (1 major) Economath				
	-	ee (1 major) Mathematic	-			
		hing degree Gymnasium ry course MINT Teacher				010)
		ee (1 major) Mathematic			D) (2010)	
	-	hing degree Gymnasium	-	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	020)
		ry course MINT Teacher		Network Bavaria (EN	B) (2020)	
Master	's degr	ee (1 major) Mathematio	al Physics (2020)			
Master's wi	th 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 528 / 590

Master's degree (1 major) Economathematics (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Mathematical Physics (2022)

Master's degree (1 major) Economathematics (2022)

exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's degree (1 major) Economathematics (2024)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Mathematical Data Science (2025)

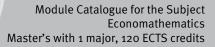
Master's degree (1 major) Economathematics (2025)

Module	e title				Abbreviation	
Semina	ar in Dy	namical Systems and C	ontrol		10-M=SDSC-161-m	
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mathem	atics	
ECTS	1	od of grading	Only after succ. con			
5		rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
A mode	ern topi	c in dynamical systems	and control.			
		d previous knowledge:				
Knowle	edge of	the contents of the moo	lule "Mathematical Co	ntrol Theory" or "Cor	ntrol Theory" is requi	ired.
Intend	ed lear	ning outcomes				
		able to elaborate a con				
the top	ic and	the available literature,	preparing a talk and t	he ability to participa	ate in a scientific dis	cussion.
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
S (2)						
	e taugh	t in: German and/or Eng	lish			
Metho	d of ass	sessment (type, scope, langu	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether
		le for bonus)				
talk (60	o to 120	o minutes)				
Langua	age of a	ssessment: German or I	English			
Assess	ment o	ffered: In the semester i	n which the course is	offered and in the su	ıbsequent semester	
Allocat	ion of p	olaces				
Additic	nal inf	ormation				
maurit	-nut mit					
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulatio	ns for teaching-degree progra	immes)		
				/		
Madel		are in				
	e appea		- (()			
	-	ee (1 major) Mathematic				
	-	ee (1 major) Economath				
	-	ee (1 major) Mathematic	•	ion DILIC Elita Natur	ork Rovaria (END) (a	016)
master		ning degree Gymnasium 1y course MINT Teacher I				010)
Suppla		ee (1 major) Mathematic		ivelwoin Davalla (EN	(2010)	
	's doar		-			
Master	-		MINT Teacher Educat		ork Bayaria (FNR) (a	020)
Master Master	's teacl	ning degree Gymnasium				020)
Master Master Supple	's teacl mentai	ning degree Gymnasium y course MINT Teacher I	Education PLUS, Elite			020)
Master Master Supple Master	's teach mentai 's degr	ning degree Gymnasium y course MINT Teacher I ee (1 major) Mathematic	Education PLUS, Elite al Physics (2020)			020)
Master Master Supple Master Master	's teach mentai 's degr 's degr	ning degree Gymnasium y course MINT Teacher I ee (1 major) Mathematic ee (1 major) Economath	Education PLUS, Elite al Physics (2020) ematics (2021)	Network Bavaria (EN		020)
Master Master Supple Master Master Master	's teach mentai 's degru 's degru 's degru	ning degree Gymnasium y course MINT Teacher I ee (1 major) Mathematic	Education PLUS, Elite al Physics (2020) ematics (2021)	Network Bavaria (EN		020)



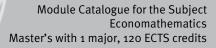
Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023)

Semina	title			Abbreviation	
	r in Financial and Insurance	e Mathematics		10-M=SFIM-161-mo	1
Module	coordinator		Module offered by		
	f Studies Mathematik (Math	ematics)	Institute of Mathem	atics	
- 1	Method of grading	Only after succ. con			
	numerical grade				
5 Duratio		Other prerequisites			
			•		
1 semes	0				
Content					
Recomn Familiar	rn topic in financial and ins nended previous knowledg rity with the contents of the ongly recommended.	e:	o Stochastic Financia	al Mathematics" and	"Stochastics
Intende	ed learning outcomes				
The stud	dent is able to elaborate a c ic and the available literatu				
Courses	S (type, number of weekly contact ho	ours, language — if other than Ge	rman)		
S (2)					
Module	taught in: German and/or I	English			
	l of assessment (type, scope, la creditable for bonus)	nguage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
talk (60	to 120 minutes)				
	ge of assessment: German				
	ment offered: In the semest	er in which the course is	offered and in the su	ibsequent semester	
Allocati	ion of places				
Additio	nal information				
Workloa	ad				
150 h					
Teachin	ng cycle				
	d to in LPO I (examination regula	ations for teaching-degree progra	ammes)		
		active progree			
			· ·		
 Referred	appoars in				
 Referred Module	e appears in	atics (2016)			
 Referred Module Master	s degree (1 major) Mathema		· · · · · · · · · · · · · · · · · · ·		
 Referree Module Master': Master':	s degree (1 major) Mathema s degree (1 major) Economa	athematics (2016)		ork Bavaria (ENB) (2	016)
 Referred Module Master's Master's	s degree (1 major) Mathema	athematics (2016) um MINT Teacher Educat	ion PLUS, Elite Netwo		016)
 Referred Madule Master's Master's Suppler	s degree (1 major) Mathema s degree (1 major) Economa s teaching degree Gymnasi	athematics (2016) um MINT Teacher Educat er Education PLUS, Elite	ion PLUS, Elite Netwo		016)
 Referree Master's Master's Master's Suppler Master's Master's	s degree (1 major) Mathema s degree (1 major) Economa s teaching degree Gymnasi mentary course MINT Teach s degree (1 major) Mathema s teaching degree Gymnasi	athematics (2016) um MINT Teacher Educat er Education PLUS, Elite atics (2019) um MINT Teacher Educat	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (2	
 Referred Master's Master's Master's Suppler Master's Suppler	s degree (1 major) Mathema s degree (1 major) Economa s teaching degree Gymnasi mentary course MINT Teach s degree (1 major) Mathema s teaching degree Gymnasi mentary course MINT Teach	athematics (2016) um MINT Teacher Educat er Education PLUS, Elite atics (2019) um MINT Teacher Educat er Education PLUS, Elite	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo	B) (2016) ork Bavaria (ENB) (2	
Referree Module Master': Master': Master': Suppler Master': Suppler Master': Suppler Master':	s degree (1 major) Mathema s degree (1 major) Economa s teaching degree Gymnasi mentary course MINT Teach s degree (1 major) Mathema s teaching degree Gymnasi mentary course MINT Teach s degree (1 major) Economa	athematics (2016) um MINT Teacher Educat er Education PLUS, Elite atics (2019) um MINT Teacher Educat er Education PLUS, Elite athematics (2021)	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016) ork Bavaria (ENB) (2	
Referree Module Master's Master's Suppler Master's Suppler Master's Suppler Master's Master's Master's	s degree (1 major) Mathema s degree (1 major) Economa s teaching degree Gymnasi mentary course MINT Teach s degree (1 major) Mathema s teaching degree Gymnasi mentary course MINT Teach	athematics (2016) um MINT Teacher Educat er Education PLUS, Elite atics (2019) um MINT Teacher Educat er Education PLUS, Elite athematics (2021) ational Mathematics (202	ion PLUS, Elite Netwo Network Bavaria (EN ion PLUS, Elite Netwo Network Bavaria (EN	B) (2016) ork Bavaria (ENB) (2	



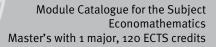
Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Economathematics (2025)

Module	e title				Abbreviation	
Giovan	ni Prod	li Seminar (Master)			10-M=SGPCin-152-r	n01
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
		-				
1 seme		graduate				
Conten	ts					
A mode	ern topi	ic in the research experti	se of the current hold	er of the Giovanni Pr	odi Chair.	
Intende	ed lear	ning outcomes				
The stu	dent is	able to elaborate a con	temporary research to	pic. This includes co	mprehending and st	tructuring of
		the available literature,				
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	man)		
S (2)						
	e taugh	t in: English				
		Sessment (type, scope, langu	age — if other than German	examination offered — if no	t every semester informati	on on whether
		le for bonus)			cevery semester, mormati	on on whether
		o minutes)				
		ssessment: English				
		ffered: In the semester i	n which the course is	offered and in the su	ıbsequent semester	
Allocat	ion of r	olaces				
Additio	nalinf	ormation	_			
Auditio	Παι ΠΠ					
Worklo	ad					
150 h						
Teachir	ıg cycl	e				
Referre	d to in	LPO I (examination regulation	is for teaching-degree progra	mmes)		
Modula		are in				
Module						
	-	ee (1 major) Mathematic				
	-	ee (1 major) Mathematic ee (1 major) Economathe				
	-	ee (1 major) Economatine ee (1 major) Mathematic				
	-	ee (1 major) Mathematic	, , ,	()		
		ee (1 major) Computatio				
	-	ee (1 major) Mathematic		9)		
	-	ee (1 major) Mathematic	-			
	-	ee (1 major) Mathematic				
	-	ee (1 major) Economathe				
	-	ee (1 major) Computatio		2)		
	-	ee (1 major) Mathematic		,		
	-	ee (1 major) Mathematic				
	-	ee (1 major) Mathematic	-			
					um rog da	page 52 / 505
master's Wi	ui i majoi	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 534 / 590



Master's degree (1 major) Economathematics (2022) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's degree (1 major) Mathematics International (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module	title				Abbreviation	
Interdis	sciplina	ary Seminar			10-M=SIDC-161-mo	1
Module	e coord	inator		Module offered by		
Dean of	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten		3.44440				
		c in mathematics with	 interdisciplinany aspec	tc		
		ning outcomes			1 1. 1.	
		able to elaborate a co the available literature				
Course	S (type, r	umber of weekly contact hour	s, language — if other than Gei	man)		
S (2)						
Module	e taugh	t in: German and/or En	glish			
		essment (type, scope, lang	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
		le for bonus)				
		o minutes)	En altab			
		ssessment: German or ffered: In the semester		offered and in the su	ibsoquent comester	
Allocat					ibsequent semester	
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cvcl	6				
		-				
Poforro	d to in	LPOI (examination regulation				
Referre	u to m	LFUT (examination regulation	ons for teaching-degree progra	mmes)		
 Madula						
Module						
	-	ee (1 major) Mathemati ee (1 major) Economath				
	-	ee (1 major) Economati ee (1 major) Mathemati				
	-	ee (1 major) Mathemati		6)		
	-	ning degree Gymnasiur		-	ork Bayaria (FNB) (2)	016)
		y course MINT Teacher				510)
		ee (1 major) Computati			B) (2010)	
	-	ee (1 major) Mathemati		<i>, , , , , , , , , ,</i>		
	-	ning degree Gymnasiur	-	ion PLUS. Flite Netwo	ork Bavaria (FNR) (ว	020)
		y course MINT Teacher				
		ee (1 major) Mathemati			, ,	
	-	ee (1 major) Economath	-			
	-	ee (1 major) Computati		2)		
	-	ee (1 major) Mathemati		-		
Master's wi	th 1 majo	Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • exa	ım. reg. da-	page 536 / 590
			-	(120 ECTS) Wirtschaftsmathe	-	



Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Economathematics (2025)

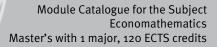
Module	e title				Abbreviation	
Semina	ar Math	ematics in the Science	S		10-M=SMSC-161-m	01
Module	e coord	inator		Module offered by	<u> </u>	
Dean o	f Studi	es Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS		od of grading	Only after succ. con			
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten		Sidudic				
		c in mathematics in the				
Amoue	eni topi		e sciences.			
Recom	mende	d previous knowledge:				
		lge from the modules "			duction to Partial Dif	ferential
		recommended, as well	as basic knowledge of	functional analysis.		
Intende	ed lear	ning outcomes				
		able to elaborate a co				
		the available literature,			ate in a scientific dis	cussion.
Course	S (type, r	umber of weekly contact hour	s, language — if other than Ger	man)		
S (2)						
		t in: German and/or En				
		s essment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	t every semester, informat	ion on whether
		o minutes)				
		ssessment: German or	English			
		ffered: In the semester		offered and in the su	ubsequent semester	,
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi		0				
Teacini	ig cyci	6				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module						
		ee (1 major) Mathemati				
	-	ee (1 major) Economath				
	-	ee (1 major) Mathemati	•	()		
	-	ee (1 major) Computatio ning degree Gymnasiun			ork Bayaria (END) (a	016)
		y course MINT Teacher				010)
		ee (1 major) Computatio			2, (2010)	
	-	ee (1 major) Mathemati		<i>, , , , , , , , , ,</i>		
	-	ning degree Gymnasiun	-	ion PLUS, Elite Netwo	ork Bavaria (ENB) (2	020)
		y course MINT Teacher				
Magter	4h 4 11	Free month a motion (18411 1479			
master's Wi	ui i majoi	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 538 / 590

Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Economathematics (2025)

	e title				Abbreviation	
Semina	ar in Nu	merical Mathematics a	nd Applied Analysis		10-M=SNMA-161-m	01
Module	coord	inator		Module offered by		
		es Mathematik (Mathen	natics)	Institute of Mathem	atics	
		•			latics	
ECTS		od of grading	Only after succ. con	npt. of module(s)		
5		rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
A mode	ern topi	c in numerical mathem	atics or applied analys	sis.		
		d previous knowledge:		c 1155 -	6 I I I I I	
		the content, basic and				umerical ma
		equired. In case of doub	or, it is recommended t	to consult the lecture	÷۲.	
		ning outcomes				
		able to elaborate a cor				
· · ·		the available literature,	<u> </u>		ate in a scientific dis	cussion.
Course	S (type, n	umber of weekly contact hours	, language — if other than Ger	rman)		
S (2)						
Module	e taugh	t in: German and/or Eng	glish			
		e essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
talk (6c	to 120	minutes)				
-		ssessment: German or	English			
		ffered: In the semester		offered and in the su	ıbsequent semester	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
/ lu u l l l						
Worklo						
Worklo	ad					
150 h						
		8				
150 h Teachir 	ng cycl					
150 h Teachir 	ng cycl	e LPO I (examination regulatic	ons for teaching-degree progra	ummes)		
150 h Teachir 	ng cycl		ons for teaching-degree progra	ummes)		
150 h Teachir 	ng cyclo ed to in	LPOI (examination regulation	ns for teaching-degree progra	ımmes)		
150 h Teachir Referre Module	ng cycle ed to in e appea	LPOI (examination regulation		ummes)		
150 h Teachir Referre Module Master	ng cycle ed to in e appea	LPO I (examination regulation	cs (2016)	ımmes)		
150 h Teachir Referre Module Master Master	ng cyclo ed to in e appea 's degro	LPOI (examination regulation Irs in ee (1 major) Mathematio	cs (2016) ematics (2016)	ımmes)		
150 h Teachin Referre Module Master Master Master Master	e appea d to in s degra s degra s degra s degra	LPO I (examination regulation ars in ee (1 major) Mathemation ee (1 major) Economatho ee (1 major) Mathemation ee (1 major) Computation	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201	6)		
150 h Teachin Referre Master' Master' Master' Master' Master'	ed to in ed to in e appea 's degro 's degro 's degro 's teach	LPO I (examination regulation ars in ee (1 major) Mathemation ee (1 major) Economath ee (1 major) Mathemation ee (1 major) Computation hing degree Gymnasium	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 o MINT Teacher Educat	6) ion PLUS, Elite Netw		D16)
150 h Teachin Referre Master Master Master Master Supple	e appea 's degro 's degro 's degro 's degro 's degro 's teach mentar	LPO I (examination regulation ars in the (1 major) Mathemation the (1 major) Economath the (1 major) Mathemation the (1 major) Computation thing degree Gymnasium y course MINT Teacher	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 o MINT Teacher Educat Education PLUS, Elite	6) ion PLUS, Elite Netw Network Bavaria (EN		016)
150 h Teachin Referre Module Master Master Master Master Supple Master	e appea d to in s degra s degra s degra s degra s degra s degra s degra s degra	LPO I (examination regulation ars in the (1 major) Mathemation the (1 major) Economathon the (1 major) Mathemation the (1 major) Computation thing degree Gymnasium the y course MINT Teacher the (1 major) Computation the (1 major) Computation	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 n MINT Teacher Educat Education PLUS, Elite onal Mathematics (201	6) ion PLUS, Elite Netw Network Bavaria (EN		016)
150 h Teachin Referre Module Master Master Master Master Supple Master Master Master	e appea s degro s degro s degro s degro s teach mentar s degro s degro	LPO I (examination regulation ars in ee (1 major) Mathemation ee (1 major) Economath ee (1 major) Mathemation ee (1 major) Computation hing degree Gymnasium y course MINT Teacher ee (1 major) Computation ee (1 major) Mathemation ee (1 major) Mathemation	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 o MINT Teacher Educat Education PLUS, Elite onal Mathematics (201 cs (2019)	6) ion PLUS, Elite Netw Network Bavaria (EN 9)	B) (2016)	
150 h Teachir Referre Master Master Master Master Supple Master Master Master	ed to in d to	LPO I (examination regulation ars in the (1 major) Mathemation the (1 major) Economathon the (1 major) Mathemation the (1 major) Computation thing degree Gymnasium the y course MINT Teacher the (1 major) Computation the (1 major) Computation	cs (2016) ematics (2016) cal Physics (2016) onal Mathematics (201 o MINT Teacher Educat Education PLUS, Elite onal Mathematics (201 cs (2019) o MINT Teacher Educat	6) ion PLUS, Elite Netw Network Bavaria (EN 9) ion PLUS, Elite Netw	B) (2016) ork Bavaria (ENB) (20	

Master's degree (1 major) Mathematical Physics (2020) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025)

Module title				Abbreviation		
Semina	ar in Op	timization			10-M=SOPT-161-mc	91
Module coordinator Module offer			Module offered by	_		
Dean of Studies Mathematik (Mathematics) Institute of Mathematics						
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten		0				
		c in optimisation.				
		ning outcomes				
		-		nia. Thia includes as		hur at unin a af
			ntemporary research to , preparing a talk and tl			
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ger	man)		
S (2)						
Module	e taugh	t in: German and/or En	glish			
			uage — if other than German, o	examination offered — if no	t every semester, informati	on on whether
		le for bonus)				
		o minutes)	Fnalich			
		ssessment: German or ffered: In the semester	in which the course is	offered and in the su	ihsequent semester	
Allocat					issequent semester	
	<u></u>					
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
			<u> </u>			
Module	annea	ors in				
		ee (1 major) Mathemati	(2016)			
	-	ee (1 major) Kathemati ee (1 major) Economati				
	-	ee (1 major) Mathemati				
	-		onal Mathematics (201	6)		
	-		n MINT Teacher Educat	-	ork Bavaria (ENB) (20	016)
			Education PLUS, Elite I			,
		•	onal Mathematics (201			
	-	ee (1 major) Mathemati		-		
	-		n MINT Teacher Educat	ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	020)
			Education PLUS, Elite I			
		ee (1 major) Mathemati				
	-	ee (1 major) Economatł	•			
Master	's degr	ee (1 major) Computati	onal Mathematics (202	2)		
Master	's degr	ee (1 major) Mathemati	cs (2022)			
Master's wi	ith 1 majoi	Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 542 / 590



Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Master's with 1 major Economathematics (2016)

Module title Abbreviation						
Semina	ar in Sta	atistics			10-M=SSTA-161-mo	1
Module	e coord	inator		Module offered by		
Dean of Studies Mathematik (Mathematics) Institute of Mathematics						
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade				
Duratio	Duration Module level Other prerequisites					
1 seme	ster	graduate				
Conten	ts					
A mode	ern topi	c in statistics.				
Basic k the con	nowled Itents o	d previous knowledge: lge of stochastics is req If the module "Stochast ge may also be helpful;	ics 2" is also recomme	ended. Depending or	the content of the o	
Intende	ed learı	ning outcomes				
		able to elaborate a con the available literature,				
Course	S (type, n	umber of weekly contact hours	, language — if other than Ge	man)		
S (2) Module						
Method	d of ass	essment (type, scope, langu	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
		le for bonus)				
-		o minutes)				
		ssessment: German or l ffered: In the semester		offered and in the su	ihsequent semester	
Allocat					issequent semester	
			_			
Additio	nal inf	ormation	_			
Worklo						
150 h	<u>au</u>					
Teachi		•				
Teacini	ig cycl	5				
Poforro	d to in	LPO I (examination regulatio				
Kelelle				inines)		
Module	e appea	irs in				
Master	's degr	ee (1 major) Mathematio	cs (2016)			
	-	ee (1 major) Economath				
	-	ee (1 major) Mathematic		ion DULS Elito Notur	ork Powaria (END) (a	or ()
		ning degree Gymnasium Ty course MINT Teacher				(010)
		ee (1 major) Mathematic			-, ()	
		ning degree Gymnasium		ion PLUS, Elite Netwo	ork Bavaria (ENB) (20	020)
		y course MINT Teacher		Network Bavaria (ENI	8) (2020)	
Master	's degr	ee (1 major) Mathematio	al Physics (2020)			l
Master's wi	ith 1 majoi	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmather		page 544 / 590

Master's degree (1 major) Economathematics (2021)

Master's degree (1 major) Computational Mathematics (2022)

Master's degree (1 major) Mathematics (2022)

Master's degree (1 major) Mathematical Physics (2022)

Master's degree (1 major) Economathematics (2022)

exchange program Mathematics (2023)

Master's degree (1 major) Computational Mathematics (2024)

Master's degree (1 major) Mathematics (2024)

Master's degree (1 major) Economathematics (2024)

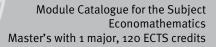
Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

Master's degree (1 major) Mathematical Data Science (2025)

Master's degree (1 major) Economathematics (2025)

Module title Abbreviation						
Semina	ar in No	n-linear Analysis			10-M=SNLA-161-mc)1
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathem	natics)	Institute of Mathem	natics	
ECTS Method of grading Only after su			Only after succ. con	pl. of module(s)		
5		rical grade				
Duratio						
	i semester graduate					
Contents						
		c in non linear analysis				
A mode	em top	c in non-linear analysis				
Recom	mende	d previous knowledge:				
		the content, basic and		from different areas	of analysis is require	ed. In case of
		commended to consult t	he lecturer.			
Intende	ed lear	ning outcomes				
		able to elaborate a con				
the top	ic and	the available literature,	preparing a talk and t	he ability to participa	ate in a scientific dis	cussion.
Course	S (type, r	number of weekly contact hours	language — if other than Ge	rman)		
S (2)						
Module	e taugh	t in: German and/or Enន្	lish			
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether
talk (6c	0 to 120	o minutes)				
Langua	ge of a	ssessment: German or I				
Assess	ment o	ffered: In the semester	n which the course is	offered and in the su	ubsequent semester	
Allocat	ion of p	olaces				
			_			
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir		•	_			
Teacini	ig tyti	e				
Referre	d to in	LPO I (examination regulatio	ns for teaching-degree progra	immes)		
Module	e appea	irs in				
	-	ee (1 major) Mathematio				
	-	ee (1 major) Economath				
	-	ee (1 major) Mathematic				
	Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)					016)
		y course MINT Teacher		Network Bavaria (EN	B) (2016)	
	-	ee (1 major) Mathematic	-	ion DILIS Elito Notur	ork Rovaria (END) (a	020)
		ning degree Gymnasium 1y course MINT Teacher I				020)
		ee (1 major) Mathematic		EN Davalla (EN		
		ee (1 major) Economath				
Master's wi	ith 1 majo	r Economathematics (2016)	-	generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 546 / 590



Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) Master's degree (1 major) Economathematics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024) Master's degree (1 major) Economathematics (2024) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Master's degree (1 major) Mathematical Data Science (2025) Master's degree (1 major) Economathematics (2025)

Module title					Abbreviation
Advanced Seminar: Banking					12-M-SBL-161-m01
Module	coordinator			Module offered by	
holder of Finance	f the Chair of Busine	ss Manage	ement and Corporate	Faculty of Managem	nent and Economics
ECTS I	Method of grading		Only after succ. com	pl. of module(s)	
10 I	numerical grade				
Duration	Module level		Other prerequisites		
1 semest	ter graduate				
Contents	5				
lyze a se their the formal m	This seminar deals with current topics in investment and finance. Students are required to independently ana- lyze a selected topic and to write a seminar thesis. Moreover, they are required to present, discuss and defend their thesis. The seminar may be largely literature based or empirical or may be based on independent work with formal models.				
	l learning outcomes	noulodao	in recent englication	areas of investment	and finance. They are able to
			seminar thesis, and to		and finance. They are able to d it in a final talk.
			anguage — if other than Ger	•	
S (2)					
	of assessment (type, s reditable for bonus)	scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
	per (approx. 20 to 25 e of assessment: Ge		d presentation (appr /or English	ox. 20 minutes), wei	ghted 2:1
Allocatio	on of places				
by lot an number	nong all applicants ir	rrespective cated in th	e of their subjects. (2)	Places on all course	e places, places will be allocated es of the module with a restricted be maintained and places re-allo-
Addition	al information				
Workloa	d				
300 h					
Teaching	g cycle				
Teaching	g cycle: each semest	er			
Referred	to in LPO I (examination	on regulations	s for teaching-degree progra	mmes)	
	appears in				
	degree (1 major) Eco degree (1 major) Bu				
			ess and Economics (2	016)	
			Economic Policy (20		
	Master's degree (1 major) China Language and Economy (2016)				

Module	e title				Abbreviation
Semina	ar: Sele	ected Topics in Busines	ss Management and Ec	onomics	12-M-APS-161-m01
Module	e coord	inator		Module offered by	1
Dean o mics	of the Fa	aculty of Business Man	agement and Econo-	Faculty of Manage	ment and Economics
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites	;	
1 seme	ester	graduate			
Conten	nts		I		
0 • 6 • 0 •	courses addition courses	taken at other Germar nal courses offered on offered by new Chairs		sities ded in the FSB (sub	ject-specific provisions) r credit transfer.
		ning outcomes			
As a re	sult of	accrediting multiple ki	nds of modules, a desc	ription of acquired	skills cannot be given.
Course	S (type, I	number of weekly contact hou	rs, language — if other than Ge	rman)	
S (2)					
term pa Langua	aper (a age of a	ssessment: German ai	presentation (approx. 2 nd/or English r in which the course is		ed 2:1
Allocat	tion of	places			
by lot a numbe	among er of pla	all applicants irrespect	tive of their subjects. (2 in the same procedure. () Places on all cour	le places, places will be allocated ses of the module with a restrictec l be maintained and places re-allo
Additio	onal inf	ormation			
			-		
Worklo	bad				
300 h					
Teachi	ng cycl	e			
		e: after announcement			
			ions for teaching-degree progra	ammes)	
Modul	e appea	ars in			
Master Master Master	f's degr f's degr f's degr	ee (1 major) Internatio	Management (2015) iness and Economics (2 nal Economic Policy (20	915)	
Master	's degr	ee (1 major) China Lan	guage and Economy (20	016)	

Module	e title				Abbreviation
Advand	ed Sen	ninar: Topics in Personne	el Economics and Org	anizational Theory	12-M-SPO-161-m01
Module	Module coordinator Module offered by				
holder Organi		Chair for Human Resource	e Management and	Faculty of Managen	nent and Economics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
10 numerical grade					
Duration Module level Other prerequisites					
1 seme	ster	graduate			
Conten	Its				
		write a seminar paper on gement and organisatior		d discuss current iss	ues in the field of human re-
Intend	ed lear	ning outcomes			
		earn to handle, write in o management and organi	•	and discuss current r	esearch literature in the area hu-
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)	
S (2)	-				
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, information on whether
tes), w	eighted			resentation includin	g discussion (approx. 50 minu-
Allocat			U		
by lot a numbe	among a r of pla	all applicants irrespective	e of their subjects. (2) Places on all cours	e places, places will be allocated es of the module with a restricted be maintained and places re-allo
Additio	onal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Teachi	ng cycle	e: each semester			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Ma			
	-	ee (1 major) China Busine			
	-	ee (1 major) Internationa	•	-	
Master	's degr	ee (1 major) China Langu	age and Economy (20	016)	

Module	title				Abbreviation	
Advance	ed Sen	ninar: Selected Probler	ns in Analytical Tax Re	search	12-M-SSL-161-m01	
Module	coord	inator		Module offered by	I	
holder c	of the (gement and Business		nent and Economics	
Taxation						
		od of grading	Only after succ. con	ipi. of module(s)		
		rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Content	ts					
arch paj Althoug if a part	pers in the s icipan	German and/or Englis seminar will be held in t prefers this to German	German, individual ser			
Intende	d lear	ning outcomes				
 to to to 	o analy o identi o formu	ify problems and to sug llate and to defend the	ir analysis and suggest	ed solutions.		
	5 (type, n	number of weekly contact hour	s, language — if other than Ger	man)		
S (2)						
		s essment (type, scope, lang le for bonus)	uage — if other than German, o	examination offered — if no	ot every semester, informat	ion on whether
		oprox. 20 to 25 pages) ssessment: German an	and presentation (appr nd/or English	ox. 20 minutes), we	ighted 2:1	
Allocati	on of p	olaces				
by lot ar number	mong a ^r of pla	all applicants irrespect	applications exceed the ive of their subjects. (2) the same procedure. (e.) Places on all cours	es of the module wit	h a restricted
Additio	nal inf	ormation				
Workloa	ad					
300 h						
Teachin	a cycl	9				
		e: each semester				
Referred	d to in	LPO I (examination regulation	ons for teaching-degree progra	mmes)		
Module	appea	irs in				
	-	ee (1 major) Economatł				
	-	ee (1 major) Business N	e			
			ness and Economics (2			
	-		al Economic Policy (20	-		
	-		guage and Economy (20	916)		
	-	ee (1 major) Manageme		010)		
	-		ness and Economics (2 guage and Economy (20	-		
		Economathematics (2016)	,	generated 19-Apr-2025 • exa	am. reg. da-	page 551 / 590
			-	(120 ECTS) Wirtschaftsmathe	-	

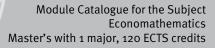
Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title A				Abbreviation	
Advan	ced Ser	ninar: Selected Aspects o	of Managerial Accou	nting	12-M-AUAS-161-m01
Modul	e coord	linator		Module offered by	
	of the countin	Chair of Business Manago ng	ement, Controlling	Faculty of Manager	nent and Economics
ECTS	Meth	od of grading	Only after succ. cor	npl. of module(s)	
10	nume	rical grade			
Durati	on	Module level	Other prerequisites	;	
1 seme	ester	graduate			
Conte	nts		Į.		
	oaper a				able them to prepare a well-struc in the field of managerial ac-
Intend	ed lear	ning outcomes			
al acco unders	ounting stand it	at a scientific level. They	are able to conduct ly further scientific m	scientific literature re nethods to answer qu	ions from the field of manageri- esearch in a targeted manner and uestions, integrate acquired re- tations and lectures.
Course	es (type, i	number of weekly contact hours, l	anguage — if other than Ge	rman)	
S (2)					
		sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
Langu	age of a	pprox. 15 to 20 pages) an issessment: German and, iffered: Once a year, sum	/or English	ox. 20 minutes), wei	ghted 2:1
Alloca	tion of	places			
by lot a numbe	among er of pla	all applicants irrespective	e of their subjects. (2) Places on all cours	le places, places will be allocated es of the module with a restricted be maintained and places re-allo
Additi	onal inf	ormation			
Workle	oad				
300 h					
-	ing cycl	e			
		e: each semester			
		LPO I (examination regulation	s for teaching-degree progra	ammes)	
Modul	e appe	ars in			
		ee (1 major) Economathe	matics (2016)		
	-	ee (1 major) Business Ma			
	-	ee (1 major) China Busine			
	-	ee (1 major) International	•	-	
Maste	r's degr	ee (1 major) China Langu	age and Economy (20	016)	

Module title Abbreviation						
Advanced Seminar: Financial Accounting and Auditing			nting and Auditing		12-M-SER-161-m01	
Module coordinator Module offered by						
holder of the Chair of Business Management and Accoun- ting						
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
10 numerical grade						
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	ts					
			nore in-depth insights ry literature in English (s of external accoun	ting and au-
		ning outcomes	<u>,</u> <u>,</u>			
(i) cons (ii) crea	solidate ated an	d defended a qualifyin	icipants have nd possibly applied ad g level relevant scientit on of the work results o	fic work;		
(iv) the nicative			p solution-oriented the	ir own performance a	adequately consider	ing commu-
Course	S (type, r	number of weekly contact hour	rs, language — if other than Ge	rman)		
S (2) +	S (2)					
		sessment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
Langua	ige of a	oprox. 20 to 25 pages) ssessment: German ar ffered: Once a year, wi		rox. 20 minutes), wei	ghted 2:1	
Allocat						
20 plac by lot a numbe	ces. (1) imong a r of pla	Should the number of all applicants irrespect	applications exceed th ive of their subjects. (2 the same procedure. (e.) Places on all cours	es of the module wit	h a restricted
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cvcl	e				
,	0 .,					
	ng cvcla	e: each semester				
Teachir		e: each semester	ions for toaching degree are	ummoc)		
Teachir			ons for teaching-degree progra	ammes)		
Teachir Referre 	ed to in	LPOI (examination regulat	ions for teaching-degree progra	ammes)		
Teachir Referre Module	ed to in e appea	LPO I (examination regulat		ammes)		
Teachin Referre Module Master	ed to in e appea 's degr	LPO I (examination regulat ars in ee (1 major) Economat	hematics (2016)	ammes)		
Teachin Referre Module Master Master	ed to in e appea 's degr	LPO I (examination regulat ars in ee (1 major) Economat ee (1 major) Business I	hematics (2016) Management (2015)			
Teachin Referre Module Master Master Master	ed to in e appea 's degr 's degr 's degr	LPO I (examination regulat ars in ee (1 major) Economat ee (1 major) Business <i>I</i> ee (1 major) China Bus	hematics (2016)	2016)		
Teachin Referre Madule Master Master Master Master Master	ed to in e appea 's degr 's degr 's degr 's degr 's degr	LPO I (examination regulat ars in ee (1 major) Economat ee (1 major) Business <i>I</i> ee (1 major) China Bus ee (1 major) Internation ee (1 major) China Lang	hematics (2016) Management (2015) iness and Economics (2 nal Economic Policy (20 guage and Economy (20	2016) 115)		
Teachin Referre Master Master Master Master Master Master	ed to in e appea 's degr 's degr 's degr 's degr 's degr 's degr	LPO I (examination regulat ars in ee (1 major) Economat ee (1 major) Business <i>I</i> ee (1 major) China Bus ee (1 major) Internation ee (1 major) China Lang ee (1 major) Managemo	hematics (2016) Management (2015) iness and Economics (2 nal Economic Policy (20 guage and Economy (20 ent (2018)	2016) 915) 916)		
Teachin Referre Master Master Master Master Master Master Master	ed to in e appea 's degr 's degr 's degr 's degr 's degr 's degr 's degr	LPO I (examination regulat ars in ee (1 major) Economat ee (1 major) Business <i>I</i> ee (1 major) China Bus ee (1 major) Internation ee (1 major) China Lang ee (1 major) Managemo	hematics (2016) Management (2015) iness and Economics (2 nal Economic Policy (20 guage and Economy (20	2016) 915) 916)		

Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) exchange program Business Management and Economics (2022)

Module title Abbreviation						
Advanced Seminar: Public Finance 12-M-SV5-161-mo					12-M-SV5-161-m01	
Module coordinator Module offe			Module offered by			
holder of the Chair of Public Finance Faculty of Management and Economics						
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Contents					
		re in-depth understandin ; journal articles in Germ			es on public finance	using scien-
Intende	ed lear	ning outcomes				
(i) cons (ii) crea (iii) dea	After the seminar, students can (i) consolidate acquired knowledge and if necessary apply additional techniques of scientific work; (ii) create, present and defend a scientific paper; (iii) deal with the working papers of other participants; (iv) prepare beter for the processing of the master's thesis.					
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
S (2)						
module is term pa	aper (a	sessment (type, scope, langu ole for bonus) pprox. 20 to 25 pages) a ssessment: German and	nd presentation (appr			on on whether
Assess	ment o	ffered: Once a year, sum	mer semester			
Allocat	ion of _l	places				
by lot a numbe	mong r of pla	Should the number of a all applicants irrespectiv ces will be allocated in t s they become available.	e of their subjects. (2 he same procedure. () Places on all course	es of the module wit	h a restricted
Additio	nal inf	ormation				
	_					
Worklo	ad					
300 h						
Teachi	ng cycl	e				
		e: each semester				
	/	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
		ee (1 major) Economathe	ematics (2016)			
	-	ee (1 major) Business Ma				
Master	's degr	ee (1 major) China Busin	ess and Economics (2	2016)		
	-	ee (1 major) Internationa	-	-		
		ee (1 major) China Langu		016)		
	-	ee (1 major) Managemer				
	-	ee (1 major) Internationa	-			
	-	ee (1 major) China Busin		•		
		ee (1 major) China Langu r Economathematics (2016)		9 19) generated 19-Apr-2025 • exa	m rog da	n200 556 / 500
master S WI	nii i iilajo	r Economathematics (2016)		(120 ECTS) Wirtschaftsmathe		page 556 / 590



Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title Abbreviation						
Advanc	ed Sen	ninar: Monetary policy			12-M-SV1-161-m01	
Module	coord	inator		Module offered by		
	holder of the Chair of Monetary Economics and Internatio- nal Financial Markets					
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
10	numerical grade					
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
Gaining a more in-depth understanding of specific problems of macroeconomics and, in particular, monetary po- licy.						
Format	ofthe	module: seminar				
Prerequ similar		Basic knowledge of mac	roeconomics as taug	ht in Bachelor progra	ams in Economics, Bu	siness or
Usabilit	ty: Mas	ter International Econom	ic Policy			
Require minar	ements	for getting credit points	according to the Eurc	pean Credit Transfer	System (ECTS): Passi	ing the se-
ECTS ar	nd grad	ling: 10 ECTS, Grading on	a scale from 1-5 bas	ed on a seminar pres	sentation and a semin	ar paper
Frequer	ncy of t	he module: Each term				
Workloa	ad: 300	o hours				
Duratio						
		ning outcomes				
theme.	In add	able to independently inv ition, they are able to pre	sent the results oral	y and in writing by co		
	S (type, n	umber of weekly contact hours, l	anguage — if other than Ge	rman)		
S (2)						
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	t every semester, informatior	n on whether
		oprox. 20 to 25 pages) an ssessment: German and,		ox. 20 minutes), wei	ghted 2:1	
Allocati	ion of p	olaces				
by lot a numbei	10 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available.					
Additio	nal inf	ormation				
			·			
Worklo	ad					
300 h						
Teachir	ng cycl	e				
Teachir	ng cycle	e: after announcement				
Master's wi	th 1 majoı	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 558 / 590

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Economathematics (2016)
Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)

Module title					Abbreviation	
Advanced Seminar: Industrial Management					12-M-SI-161-m01	
Module	e coord	inator		Module offered by		
holder Manag		Chair of Business Mana	agement and Industrial	-	nent and Economics	
ECTS	1	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade		• • • •		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
			minar papers on select papers will have to be p		l of industrial manag	gement. The
		ning outcomes				
cessary with in ten cor Throug	y, to filt troduct htribution tribution	er, to evaluate, tu critic ion of own scientificall on to the topic of Indus ecture, students learn t	deepen their knowledg cally analyze and to ask y based further develop trial Management, whic o present selected cont d the findings in the cou	each other. On this oments, the participa ch complies with the cent of their housewo	basis, and, where a ants will learn to pre principles of scient ork in a suitable forn	ppropriate, pare a writ- ific work.
Course	S (type, r	number of weekly contact hour	s, language — if other than Ger	man)		
S (2)						
module is a) term	s creditab paper	le for bonus) (approx. 20 to 25 page	suage — if other than German, e s) and presentation (ap s) and presentation (ap	oprox. 20 minutes); (weighted 2:1) or	ion on whether
		ssessment: German ar				
Allocat	ion of _l	olaces				
by lot a numbe	among a r of pla	all applicants irrespect	applications exceed the ive of their subjects. (2) 1 the same procedure. (e.) Places on all course	es of the module wit	h a restricted
Additic	onal inf	ormation				
Worklo	ad					
300 h	ng cycl	e				
300 h Teachi i						
Teachi	ng cycle	e: each semester				
Teachi Teachi	<u> </u>		ons for teaching-degree progra	mmes)		
Teachi Teachi	<u> </u>		ons for teaching-degree progra	mmes)		
Teachi Teachi	ed to in	LPOI (examination regulation	ons for teaching-degree progra	mmes)		
Teachin Teachin Referre Module Master Master Master Master	ed to in e appea ''s degr ''s degr ''s degr ''s degr	LPO I (examination regulations in the second	nematics (2016)	.016) 15)		
Teachin Teachin Referre Module Master Master Master Master Master	ed to in e appea d's degr d's degr d's degr d's degr d's degr	LPO I (examination regulations in the second	nematics (2016) Management (2015) iness and Economics (2 nal Economic Policy (20 guage and Economy (20	.016) 15)		

Master's degree (1 major) International Economic Policy (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module	e title				Abbreviation	
Advanced Seminar: Industrial Organization 12-M-SIO-161-mc					12-M-SIO-161-m01	
Module coordinator Module offered by						
		Chair of Industrial Econ	omicc			
					nent and Economics	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10	<u> </u>	rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
their ac	urse co dvisor, v ite a pa	will choose a topic and per on this research qu	d topics from the field formulate a research c uestion. At the end of th	question. Then they a	are expected to conc	luct research
Intende	ed learr	ning outcomes				
 perfo critic desc sugg 	orm a si ally ass ribe the est futi	urvey of the scientific li sess the economic mod		ic; in the literature;		
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ge	rman)		
S (2)						
module is	creditab	le for bonus)	uage — if other than German,			ion on whether
		oprox. 20 pages) and p ssessment: German ar	resentation (approx. 20 d/or English	o minutes), weighted	1 2:1	
Allocat	ion of p	olaces				
by lot a numbe	mong a r of pla	all applicants irrespect	applications exceed the ive of their subjects. (2 the same procedure. (e.) Places on all cours	es of the module wit	h a restricted
Additio	nal info	ormation				
Worklo	ad					
300 h						
Teachir	ng cycl	9				
		e: each semester				
			ons for teaching-degree progra	immes)		
Referred to in LPO I (examination regulations for teaching-degree programmes)						
 Module	e appea	rs in				
 Module		rs in ee (1 major) Economath	nematics (2016)			
 Module Master Master	's degre 's degre	ee (1 major) Economath ee (1 major) Business M	Nanagement (2015)			
 Module Master Master	's degre 's degre 's degre	ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi	Nanagement (2015) ness and Economics (2			
 Module Master Master Master	's degre 's degre 's degre 's degre	ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internatior	Management (2015) ness and Economics (2 nal Economic Policy (20	15)		
 Module Master Master Master Master	's degre 's degre 's degre 's degre 's degre	ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internatior ee (1 major) China Lang	Management (2015) ness and Economics (2 nal Economic Policy (20 guage and Economy (20	15)		
 Module Master Master Master Master Master	's degre 's degre 's degre 's degre 's degre	ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internatior ee (1 major) China Lang ee (1 major) Manageme	Management (2015) ness and Economics (2 nal Economic Policy (20 guage and Economy (20	15) 016)		

Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

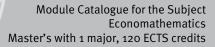
Module title					Abbreviation	
Seminar: Logistics & Supply Chain Management					12-M-LSCM-161-mo	1
Module coordinator				Module offered by		
holder	of the	Chair of Logistics and Q	uantitative Methods	Faculty of Managen	nent and Economics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Durati	on	Module level	Other prerequisites	i		
1 seme	ester	graduate				
Conter	nts					
They surfounded compation of quation blems	upport ed and nies be ntitativ on syste have b	planning approaches an decision makers in taki relevant information. M ecause they considerab e planning methods has ms: Advanced tools are een integrated in stand essary data has substa	ng important strategic, any of these decisions ly influence today's as been strongly suppor available at low costs ard software, the user	, tactical, and operat have significant imp well as tomorrow's o ted by the developm s, versatile methods friendliness has imp	ional decisions by p bact on the competiti costs and revenues. thent of information a to model and solve p roved, and last but r	roviding well- iveness of The adoption nd commu- blanning pro-
		ning outcomes		through End System	5).	
potent minar	ial solu learn al	ective of this seminar is tions. Planning procedu pout actual planning pro mpanies address these	ures are applied to solve blems in Logistics and	ve real problems in c	ompanies. Participa	nts in this se-
Course	es (type, i	number of weekly contact hours	, language — if other than Ge	rman)		
S (2)						
		sessment (type, scope, lang ble for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informati	ion on whether
		pprox. 20 to 25 pages) a ssessment: German an		rox. 20 minutes), we	ighted 2:1	
Alloca	tion of	places				
Allocation of places 20 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Students who already have successfully completed courses offered by the Chair of Logistics and Quantitative Methods will be given preferential consideration. (2) Among applicants with the same number of successfully completed modules, places will be allocated according to the total number of ECTS credits achieved in mandatory courses of the focus Logistik und Supply Chain Management (Logistics and Supply Chain Manage- ment) or Value Chain Management or another specialisation the applicant has selected which includes courses offered by the Chair. (3) Among applicants with the same number of ECTS credits, places will be allocated by lot.						
Additio	onal inf	ormation				
Worklo	oad					
300 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: each semester				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
Modul	e appea	ars in				
	-	ee (1 major) Economath ee (1 major) Business Ir		016)		
Master's w	vith 1 majo	r Economathematics (2016)	-	• generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe	-	page 564 / 590

Master's degree (1 major) Business Management (2015)
Master's degree (1 major) China Business and Economics (2016)
Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
exchange program Business Management and Economics (2022)

Module	e title				Abbreviation	
Advanced Seminar: Marketing Strategy					12-M-MSS-161-m01	
		•				
Module				Module offered by	·	
holder ting	of the (Chair of Business Adm	inistration and Marke-	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
tured p keting a	aper and str		important knowledge a ts of their work with the			
Reading will var	-	ding to topic				
Intende	ed lear	ning outcomes				
1. unde 2. integ	erstand grate el					
Course	S (type, r	number of weekly contact hou	rs, language — if other than Ge	man)		
S (2)						
		sessment (type, scope, lan le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		oprox. 20 to 25 pages) ssessment: German a	and presentation (appi nd/or English	rox. 20 minutes), we	ighted 2:1	
Allocat	ion of _l	olaces				
by lot a numbe	mong a	all applicants irrespect	applications exceed the tive of their subjects. (2 n the same procedure. (le.) Places on all cours	es of the module wit	h a restricted
Additio	nal inf	ormation				
	_					
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Teachir	ng cycle	e: each semester				
	<u> </u>		ions for teaching-degree progra	mmes)		
Module		urs in				
		ee (1 major) Economat	hematics (2016)			
	-	ee (1 major) Business I				
	-	-	iness and Economics (2			
	-	-	nal Economic Policy (20	-		
	-		guage and Economy (20	016)		
Mactor	's degr	ee (1 major) Managem	ont (2018)			
	-	r Economathematics (2016)		generated 19-Apr-2025 • exa		page 566 / 590

Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title				Abbreviation		
Advanced Seminar: Entrepreneurship and Management					12-M-SAS-161-m01	
Module coordinator				Module offered by		
holder	of the (Chair of Entrepreneursh	ip and Strategy	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		elop seminar papers on ne key insights from the		lomain of entreprene	urship, strategy, and	d innovation
Intende	ed lear	ning outcomes				
 E E E E Con succ D A E A 	 Educational aims Enable students to position their research Enable students to critically review a substantial body of literature in short time Enable students to develop a sound theoretical framework Enable students to create a research paper fully meeting academic standards Learning outcomes Differentiate their research from previous work Adopt theoretical perspectives to understand complex phenomena Engage in comprehensive academic reasoning 					
	S (type, r	number of weekly contact hours	5, language — if other than Ge	rman)		
S (2)		• • • • •				
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	on on whether
Langua	ge of a	pprox. 20 pages) and p ssessment: German an ffered: Once a year, wir	d/or English	5 to 30 minutes), wei	ghted 2:1	
Allocat	ion of p	olaces				
by lot a numbe	mong a r of pla	Should the number of a all applicants irrespecti ces will be allocated in s they become available	ve of their subjects. (2 the same procedure. () Places on all course	es of the module wit	h a restricted
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Teachir	ng cycle	e: each semester				
Referre	d to in	LPOI (examination regulation	ons for teaching-degree progra	ammes)		
Module	e appea	ars in				
		ee (1 major) Economath	nematics (2016)			
Master's wi	ith 1 majo	r Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 568 / 590



Master's degree (1 major) Business Information Systems (2016) Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016) Master's degree (1 major) International Economic Policy (2015) Master's degree (1 major) China Language and Economy (2016)

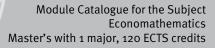
Module	e title				Abbreviation			
Advand	Advanced Seminar: Economic Order and Social Policy				12-M-SWOSP-161-m01			
Module	e coord	inator		Module offered by	<u> </u>			
holder	ofthe	Chair of Labour Economi	cs	Faculty of Manager	nent and Economics			
ECTS	Meth	od of grading	Only after succ. com	npl. of module(s)				
10	nume	rical grade						
Duratio	on	Module level	Other prerequisites					
1 seme	ster	graduate						
Conten	Its							
people allow s The rec	's socia itudent curring	al behavior and social pr s to acquire the necessa	eferences. We will rea ry empirical tools to c ne origins of social col	ad and discuss scien onduct an empirical hesion and social pr	n empirical study to understand tific methodological papers that thesis. eferences, the role of the family			
		ning outcomes						
This se ses on	minar i the acc	is designed to acquire th	ls - mostly related to		ir of Labour Economics. It focu- cal tools - in order to understand			
Course	S (type, 1	number of weekly contact hours,	language — if other than Ger	rman)				
S (2)								
		Sessment (type, scope, langua ole for bonus)	age — if other than German, e	examination offered — if no	t every semester, information on whether			
		pprox. 20 to 25 pages) a ssessment: German and		ox. 20 minutes), we	ighted 2:1			
Allocat	ion of	places	-					
by lot a numbe	among er of pla	all applicants irrespectiv	e of their subjects. (2) he same procedure. () Places on all cours	e places, places will be allocated es of the module with a restricted be maintained and places re-allo-			
Additio	onal inf	ormation						
			-					
Worklo	ad							
300 h			-					
Teachi	ng cycl	e						
Teachi	ng cycl	e: after announcement	-					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	immes)				
Module								
Master	-	ee (1 major) Economathe						
	's degr	on 11 major) Rucinoce M-	nagamant (aare)					
Master	Master's degree (1 major) Business Management (2015) Master's degree (1 major) China Business and Economics (2016)							
Master Master	's degr		ess and Economics (2					

Module title					Abbreviation
Advanc	ed Sen	ninar: Econometrics			12-M-SOE-161-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Econometrics		Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
quired t	to inde		mselves with the res	pective topics and to	onometrics. Students will be re- o present the results of their work
Intende	ed leari	ning outcomes			
		able to analyze independ ie results orally and in wr			vance for a given theme. They 5.
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
		s essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		oprox. 20 to 25 pages) an ssessment: German and/		ox. 20 minutes), wei	ghted 2:1
Allocati	ion of p	olaces			
by lot a number	mong a r of pla	all applicants irrespective	e of their subjects. (2)	Places on all course	e places, places will be allocated es of the module with a restricted be maintained and places re-allo-
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachir	ng cycl	e			
Teachir	ng cycle	e: each semester			
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module					
	-	ee (1 major) Economathe			
	-	ee (1 major) Business Ma ee (1 major) China Busine		016)	
		ee (1 major) International			
	-	ee (1 major) China Langua		-	

Module title					Abbreviation	
Economic and Business Ethics					12-M-WUE-161-mo:	L
Module	e coord	inator		Module offered by	l	
			nagement and Business		nent and Economics	
Taxatio	n		- 			
ECTS		od of grading	Only after succ. con	npl. of module(s)		
10		rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
			n overview of different e		siness and economy	/, e. g. leader
		· · ·	ories, consumer ethics, C	.5K.		
		ning outcomes				<u> </u>
ethcial	proble	m in business and/or	he student should be ab economiy. He/she shou ne should discuss the ar	Ild be able to presen	t a complex problem	n in an clear
Course	S (type, r	number of weekly contact hou	urs, language — if other than Ger	rman)		
S (2)						
		s essment (type, scope, lar ole for bonus)	nguage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		pprox. 20 to 25 pages ssessment: German a) and presentation (appr and/or English	rox. 20 minutes), we	ighted 2:1	
Allocat	ion of j	places				
by lot a numbe	imong a r of pla	all applicants irrespec	f applications exceed the ctive of their subjects. (2) in the same procedure. (ble.) Places on all cours	es of the module wi	th a restricted
		ormation				
Worklo	ad					
300 h						
Teachi	ng cvcl	e				
		e: each semester				
			ations for teaching-degree progra	mmes)		
Module	e appea	ars in				
		ee (1 major) Economa	thematics (2016)			
	-	ee (1 major) Business				
	-		siness and Economics (2	2016)		
Master	's degr	ee (1 major) Internatio	onal Economic Policy (20	15)		
	-		nguage and Economy (20	016)		
	-	ee (1 major) Managerr				
	-		onal Economic Policy (20			
	-		siness and Economics (2	•		
	-	•	nguage and Economy (20 siness and Economics (2	-		
		r Economathematics (2016)	JMU Würzburg •	generated 19-Apr-2025 • exa	-	page 572 / 590
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Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Modul	e title				Abbreviation
Seminar: Macroeconomics and Quantitative Economic Research					12-M-MEW-161-m01
Module coordinator				Module offe	red by
head o	f the W	ork Group of Empirical	Economics		anagement and Economics
ECTS	1	od of grading		c. compl. of module	
		rical grade			5(3)
10 Duratio		Module level	Other prerequ	isitos	
1 seme		graduate		151105	
Conten		giauuale			
This co	urse w antitat				specific problems of macroeconomics tudents may select one, is available on
Intend	ed lear	ning outcomes			
(ii) crea (iii) dea (iv) pre	ate, pre al with pare be	esent and defend a scient the working papers of o eter for the processing of	ntific paper; ther participants of the master's th	; iesis.	hniques of scientific work;
	S (type, r	number of weekly contact hours	, language — if other t	han German)	
S (2)					
		sessment (type, scope, lang ole for bonus)	uage — if other than Go	erman, examination offer	ed — if not every semester, information on whether
		pprox. 20 to 25 pages) a ssessment: German an		(approx. 20 minute	es), weighted 2:1
Allocat	ion of _l	places			
by lot a numbe	among er of pla	all applicants irrespecti	ve of their subject the same proced	cts. (2) Places on al	vailable places, places will be allocated l courses of the module with a restricted st will be maintained and places re-allo
Additio	onal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Teachi	ng cycl	e: each semester			
		LPO I (examination regulation	ons for teaching-degree	e programmes)	
			0.00		
Module	e appea	ars in			
		ee (1 major) Economath	ematics (2016)		
	-	ee (1 major) Business N		5)	
		ee (1 major) China Busi			
		ee (1 major) Internation			
	-	ee (1 major) China Lang	-	ny (2016)	
	-	ee (1 major) Manageme			
	-	ee (1 major) Internation		-	
	-	ee (1 major) China Busi ee (1 major) China Lang		-	
		r Economathematics (2016)	-	rzburg • generated 19-Apr-	2025 • exam. reg. da- page 574 / 590
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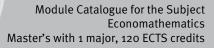


Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Seminar: Supply Chain Competition					12-M-SCC-161-m01	
Module coordinator				Module offered by		
holder	of the (Chair of Logistics and Q	uantitative Methods	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	ts					
		r "Supply Chain Compe perations and supply cl		ipate in an online mu	ulti-round simulatior	1 and apply
Intende	ed lear	ning outcomes				
i. selec ii. faceo	ted and d the p	ng this seminar studer d applied quantitative r ractical problems when	nodels for procuremen using real data to feed	d models,		anagement,
		stand the challenges to			/.	
	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
S (2)		_				
module is term pa	aper (a	sessment (type, scope, lang le for bonus) oprox. 15 to 20 pages) a ssessment: German an	and presentation (appr			
		ffered: Once a year, wi				
Allocat	ion of _l	olaces				
12 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Students who already have successfully completed courses offered by the Chair of Logistics and Quantitative Methods will be given preferential consideration. (2) Among applicants with the same number of successfully completed modules, places will be allocated according to the total number of ECTS credits achieved in mandatory courses of the focus Logistik und Supply Chain Management (Logistics and Supply Chain Manage- ment) or Value Chain Management or another specialisation the applicant has selected which includes courses offered by the Chair. (3) Among applicants with the same number of ECTS credits, places will be allocated by lot.						
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachir	ng cycle	e: each semester				
Referre	d to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)		
Module	e appea	ars in				
Master Master Master Master Master	's degr 's degr 's degr 's degr 's degr	ee (1 major) Economath ee (1 major) Business M ee (1 major) China Busi ee (1 major) Internation ee (1 major) China Lang ee (1 major) Manageme r Economathematics (2016)	Management (2015) ness and Economics (2 al Economic Policy (20 guage and Economy (20 ent (2018)	915)	ım reg da.	page 576 / 590
master S W	nin i majo	LEONOMALIEMALES (2016)	-	(120 ECTS) Wirtschaftsmathe	-	page 5/0 / 590

Master's degree (1 major) International Economic Policy (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) International Economic Policy (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module title					Abbreviation		
Semina	ar: E-Bu	isiness Strategies			12-M-SEBS-161-mo:	1	
Module	e coord	inator		Module offered by			
holder	of the (Chair of Information Syst	ems Engineering	Faculty of Managem	nent and Economics		
ECTS	r	od of grading	Only after succ. con	· · ·			
10	nume	rical grade		-			
Duratio	on .	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten		0	1				
		, students will acquire in	nportant knowledge a	nd skills that will ena	able them to prepare	e a well-struc-	
tured te	erm pa	per and to present the re (electronic markets, We	sults of their work wi	th the help of relevar	nt topics in the fields		
Intende	ed lear	ning outcomes					
- Acade	emic lite	erature review					
Intogr	ation o	f developed results in so	iontific papars				
- megi	ation o	i developed results in si	lentine papers				
- Creati	ng pres	sentations and talks					
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)			
S (2)							
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether	
Langua	ige of a	pprox. 20 to 25 pages) a ssessment: German and ffered: Once a year, win	l/or English	rox. 20 minutes), wei	ghted 2:1		
Allocat	ion of _l	olaces					
by lot a numbe	imong a r of pla	Should the number of a all applicants irrespectiv ces will be allocated in t s they become available	e of their subjects. (2 he same procedure. () Places on all course	es of the module wit	h a restricted	
Additio	nal inf	ormation					
Worklo	ad						
300 h							
Teachi	ng cycl	e					
Teachir	ng cycle	e: each semester					
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ammes)			
Module appears in							
Master	's degr	ee (1 major) Economathe	ematics (2016)				
Master	's degr	ee (1 major) Business In	formation Systems (2	016)			
	-	ee (1 major) Business M	• • •				
	-	ee (1 major) China Busin					
	-	ee (1 major) Internationa	-	-			
	-	ee (1 major) China Langu	- ,	(010			
	-	ee (1 major) Managemer ee (1 major) Information					
		r Economathematics (2016)		generated 19-Apr-2025 • exa	ım, reg. da-	page 578 / 590	
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Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021) Master's degree (1 major) Information Systems (2022) Master's degree (1 major) Management (2022) Master's degree (1 major) Economathematics (2022) exchange program Business Management and Economics (2022)

Module	Module title Abbreviation							
Busine	ss Anal	ytics			12-M-BUA-161-m01			
Module	coordi	inator		Module offered by				
		Chair of Business Analy	tics	Faculty of Management and Economics				
ECTS		od of grading	Only after succ. com					
10	numerical grade							
Duratio		Module level	Other prerequisites					
	semester graduate							
Conten	l							
tured te manage stems a	In this course, students will acquire important knowledge and skills that will enable them to prepare a well-struc- tured term paper and to present the results of their work with the help of relevant topics in the field of business management decision models and methods and their application in the development of decision-support sy- stems as well as analytical information systems and quantitative methods of data analysis. Students work on current topics using methods from machine learning, mathematical optimization and simulati-							
on.								
· · · · · · · · · · · · · · · · · · ·		ning outcomes						
• S • Ir • Ir	cientifi npleme ntegrati	rovides students with k c literature entation of methods in ion of developed result g presentations and lect	code s in scientific papers					
Course	S (type, n	umber of weekly contact hours	, language — if other than Ger	man)				
S (2)								
		s essment (type, scope, lang le for bonus)	uage — if other than German, e	examination offered — if no	t every semester, informati	on on whether		
Langua	ge of a	oprox. 20 to 25 pages) a ssessment: German an ffered: Once a year, wir	d/or English	ox. 20 minutes), wei	ghted 2:1			
Allocat	ion of p	olaces						
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allo- cated by lot as they become available.						h a restricted		
Additio	nal info	ormation						
Worklo	ad							
300 h								
Teachir								
		e: each semester	_					
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	mmes)				
Module								
Master' Master'	's degre 's degre	ee (1 major) Economath ee (1 major) Business Ir ee (1 major) Business <i>N</i> ee (1 major) China Busin	formation Systems (20 anagement (2015)					
Master's wi	th 1 major	Economathematics (2016)		generated 19-Apr-2025 • exa (120 ECTS) Wirtschaftsmathe		page 580 / 590		

Master's degree (1 major) International Economic Policy (2015)
Master's degree (1 major) China Language and Economy (2016)
Master's degree (1 major) Management (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)

Module title Abbreviation						
Advan	ced Ser	ninar: Advanced Topics in	n Contract Theory		12-M-ATC-161-m01	
Modul	e coord	inator		Module offered by	I	
	of the (ion Eco	Chair for Economics, Cont nomics	ract Theory and In-	Faculty of Manager	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	mpl. of module(s)		
10	nume	rical grade				
Duratio	ouration Module level Other prerequisites					
1 seme	ester	graduate				
Conter	nts					
theory, helpfu	, contra l, the co	ct theory or behavioral ec	conomics. As a solid	understanding of the	ally with a focus on decision e corresponding basics will be ted the classes "Advanced Micoe	
Intend	ed lear	ning outcomes				
• r • c • r • c	reading critically relating conveyi		retical or experiment g the results of resea search articles to ea bally and in writing in	al research articles, arch articles, ch other, n accordance with co	ommon scientific standards.	
	es (type, r	number of weekly contact hours, l	anguage — if other than Ge	rman)		
S (2)						
		Sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
		pprox. 15 pages) and pressessment: German and		o minutes), weighted	2:1	
Allocat	tion of _l	olaces				
by lot a numbe	among a er of pla	all applicants irrespective	e of their subjects. (2) Places on all cours	e places, places will be allocated es of the module with a restricted be maintained and places re-allo	
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Teachi	ng cycle	e: each semester				
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	ummes)		
Modul	e appea	ars in				
	-	ee (1 major) Economathe				
		ee (1 major) Business Ma				
		ee (1 major) China Busine ee (1 major) International				
	-	ee (1 major) China Langua		-		
master	s aegr	ee (1 major) Crina Langua	age and Economy (20)10)		

Module	title				Abbreviation	
Advanced Seminar: Enterprise Systems					12-M-ES-161-m01	
		• •				
Module				Module offered by		
holder Informa			agement and Business	Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
tured te on syst	erm paj ems ar		important knowledge a results of their work wi			
Reading will var	-	ding to topic				
Intende	ed lear	ning outcomes				
1. unde 2. integ 3. creat	rstand rate el e prese	the fundamentals of s aborated content in a s entations independent	ly.	ws;		
	S (type, r	umber of weekly contact hour	s, language — if other than Ge	rman)		
S (2)						
		e ssment (type, scope, lang le for bonus)	guage — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		oprox. 20 to 25 pages) ssessment: German ar	and presentation (appind/or English	rox. 20 minutes), we	ighted 2:1	
Allocat	ion of p	olaces				
by lot a numbe	mong a r of pla	all applicants irrespect	applications exceed the ive of their subjects. (2 a the same procedure. (e.) Places on all cours	es of the module wit	h a restricted
Additio	nal inf	ormation				
Worklo	ad					
300 h						
Teachir	ıg cycl	e				
		e: each semester				
			ons for teaching-degree progra	ammes)		
Module	annos	ors in				
		ee (1 major) Economati	nematics (2016)			
	-	-	nformation Systems (20	016)		
	-	ee (1 major) Business I	· · ·	,		
	-	-	iness and Economics (2	2016)		
	-		nal Economic Policy (20	-		
	-	-	guage and Economy (20	016)		
Master's wi	laster's with 1 major Economathematics (2016) JMU Würzburg • generated 19-Apr-2025 • exam. reg. da- page 583 / 590					

Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) Information Systems (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Information Systems (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)

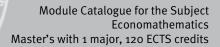
Module tit	e		Abbreviation		
Philosophy	of Science and Ethics	in Business Managemen	t and Economics	12-M-WEW-161-m01	
Module co	ordinator		Module offered by		
Dean of the mics	e Faculty of Business Ma	anagement and Econo-	Faculty of Management and Economics		
ECTS Me	CTS Method of grading Only after succ. compl. of module(s)				
10 nu	merical grade				
Duration	Module level	Other prerequisites	5		
1 semester	graduate				
Contents					
		seminar. Participants wi lication on a topic in ecor		rk on a problem in economic poli-	
Intended l	earning outcomes				
Students a	re able to present the s	tatus of a current project	in a talk as well as to	o discuss and defend it.	
Courses (ty	be, number of weekly contact h	ours, language — if other than Ge	erman)		
S (2)					
term paper	of assessment: German	s) and presentation (app and/or English	rox. 20 minutes), we	ighted 2:1	
Allocation	of places				
by lot amo number of	ng all applicants irrespe	ective of their subjects. (2 in the same procedure.	 Places on all cours 	le places, places will be allocated es of the module with a restricted be maintained and places re-allo-	
Additional	information				
Workload					
300 h					
Teaching o	ycle				
Teaching c	ycle: no courses offered	1			
Referred to	in LPO I (examination regu	lations for teaching-degree progr	ammes)		
Module ap	pears in				
Master's d Master's d Master's d	egree (1 major) Internat	s Management (2015) usiness and Economics (ional Economic Policy (20	015)		
Master's d	egree (1 major) China La	anguage and Economy (2	016)		

Module title					Abbreviation			
Semina	ar: Inte	rnational Economics			12-M-SIÖ-161-m01			
Modul	e coord	linator		Module offered by				
		aculty of Business Mana	gement and Econo-	Faculty of Managem	ent and Economics			
mics		cally of Busiliess Maila		racuity of managem				
ECTS	Meth	od of grading	Only after succ. compl. of module(s)					
10	nume	rical grade						
Duratio	on	Module level	Other prerequisites	5				
1 seme	ester	graduate						
Conten	nts	• •						
de, and stems; Literatu	t topics d Cities Global ure:	s in international econor ; Outsourcing, Offshorir lization and the Environ	ng and Multinational F ment; Trade, Multinati	irms; Competition of	Locations, Jurisdict	ions and Sy-		
Peer-re	eviewed	l articles and/or monog	raphs.					
Intend	ed lear	ning outcomes						
learn a	nd app and re	urrent cutting-edge resea bly research methods. Th search both in written a peers.	ne seminar style of the	course teaches them	n to present their ov	vn seminar		
Course	es (type, i	number of weekly contact hours	, language — if other than Ge	rman)				
S (2)								
		sessment (type, scope, langu ble for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether		
Langua	age of a	pprox. 20 pages) and pr ssessment: German and		o minutes) with posit	ion paper (1 page),	weighted 3:1		
Allocat								
		Should the number of a		e number of available 2) Places on all course	s of the module wit	be allocated		
by lot a numbe	er of pla	all applicants irrespection aces will be allocated in s they become available	the same procedure.		e maintained and p			
by lot a numbe cated b	er of pla by lot a	ices will be allocated in	the same procedure.		e maintained and p			
by lot a numbe cated b	er of pla by lot a	ices will be allocated in s they become available	the same procedure.		e maintained and p			
by lot a numbe cated b Additio	er of pla by lot a onal inf	ices will be allocated in s they become available	the same procedure.		e maintained and p			
by lot a numbe cated b Additio	er of pla by lot a onal inf	ices will be allocated in s they become available	the same procedure.		be maintained and p			
by lot a numbe cated b Additio Worklo 300 h	er of pla by lot a onal inf oad	aces will be allocated in s they become available formation	the same procedure.		be maintained and p			
by lot a numbe cated b Additic Worklo 300 h Teachi	er of pla by lot a bnal inf bad ng cycl	e e e e e e e e e e e a located in s they become available a cormation	the same procedure.		be maintained and p			
by lot a numbe cated b Additio Worklo 300 h Teachin	er of pla by lot a bnal inf bad ng cycl	ices will be allocated in s they become available formation e e: each semester	the same procedure. ((3) A waiting list will b	e maintained and p			
by lot a numbe cated b Additio Worklo 300 h Teachin	er of pla by lot a bnal inf bad ng cycl	e e e e e e e e e e e a located in s they become available a cormation	the same procedure. ((3) A waiting list will b	be maintained and p			
by lot a numbe cated b Additio Worklo 300 h Teachin Teachin Referre	er of pla by lot a onal inf oad ng cycl ng cycl ed to in	e e each semester LPOI (examination regulation	the same procedure. ((3) A waiting list will b	e maintained and p			
by lot a numbe cated b Additic Worklo 300 h Teachin Teachin Referre Modulo	er of pla by lot a bnal inf bad ng cycl ed to in e appea	e e each semester LPOI (examination regulation	the same procedure. ((3) A waiting list will b	e maintained and p			
by lot a numbe cated b Additio Worklo 300 h Teachin Teachin Teachin Referre Modulo Master Master	er of pla by lot a bad ng cycl ed to in e appea r's degr	e e (1 major) Business M	the same procedure. ((3) A waiting list will b ammes)	be maintained and p			
by lot a numbe cated b Additic Worklo 300 h Teachin Teachin Referre Module Master Master Master	er of pla by lot a boal inf bad ng cycl ed to in e appea r's degr r's degr r's degr	ee e: each semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) China Busin ee (1 major) China Busin	the same procedure. ((3) A waiting list will b ammes) 2016)	e maintained and p			
by lot a numbe cated b Additic Worklo 300 h Teachin Teachin Referre Modulo Master Master Master Master	er of pla by lot a onal inf oad ng cycl ed to in e appea r's degr r's degr r's degr	e e (1 major) Economathon e (1 major) China Busin e (1 major) Internation	the same procedure. ((3) A waiting list will b ammes) 2016) 215)	e maintained and p			
by lot a numbe cated b Additio Worklo 300 h Teachin Teachin Teachin Referre Master Master Master Master Master Master	er of pla by lot a bnal inf bad ng cycl ed to in e appe a r's degr r's degr r's degr r's degr	ee e: each semester LPO I (examination regulation ars in ee (1 major) Economath ee (1 major) China Busin ee (1 major) China Busin	the same procedure. ((3) A waiting list will b ammes) 2016) 215)				

Master's degree (1 major) Management (2018) Master's degree (1 major) International Economic Policy (2018) Master's degree (1 major) China Business and Economics (2019) Master's degree (1 major) China Language and Economy (2019) Master's degree (1 major) China Business and Economics (2021) Master's degree (1 major) China Language and Economy (2021) Master's degree (1 major) Economathematics (2021)

Module	Module title Abbreviation					
Semina	ar: Appl	ied Decision Theory			12-M-SCT-161-m01	
Module	e coord	inator		Module offered by	l	
holder of the Chair for Economics, Contract Theory and Information Economics				Faculty of Managen	nent and Economics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
-	Duration Module level Other prerequisites					
1 seme	ster	graduate				
Conten	ts	0				
theory, helpful	contra , the co	ct theory or behavioral eq	conomics. As a solid cular for advanced st	understanding of the udents who complet	ally with a focus on decision e corresponding basics will be ed the classes "Ökonomische nformationsökonomik".	
Intende	ed learn	ning outcomes				
or expe ting the	riment e result	al research articles, (ii) c	ritically analyzing and icles to each other, (d discussing the resu	g and understanding theoretical ults of research articles, (iii) rela- nsights both verbally and in wri-	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
S (2)						
		essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
Langua	ge of a	oprox. 20 to 25 pages) an ssessment: German and, ffered: Once a year, winto	or English	ox. 20 minutes), we	ighted 2:1	
Allocat						
10 plac by lot a numbe	es. (1) s mong a r of pla	Should the number of ap all applicants irrespective	e of their subjects. (2)) Places on all cours	e places, places will be allocated es of the module with a restricted be maintained and places re-allo	
Additio	nal info	ormation				
 Worklo	ad					
150 h	au					
Teachi		a				
	<u> </u>	e: no courses offered LPO I (examination regulation:	for toaching dograp are	mmac)		
			s for teaching-degree progra	unines)		
Module	annea	rs in				
		ee (1 major) Economathe	matics (2016)			
	-	ee (1 major) Business Ma				
		ee (1 major) China Busine		2016)		
	-	ee (1 major) International	•	-		
Master	's degre	ee (1 major) China Langu	age and Economy (20	016)		





Thesis (30 ECTS credits)

Module	e title				Abbreviation	
Master	Thesis	s Economathematics			10-M=MAAW-161-m01	
Module	e coord	inator		Module offered by		
Dean of Studies Mathematik (Mathematics)			natics)	Institute of Mathem	natics	
ECTS				npl. of module(s)		
30		rical grade				
		Other prerequisites	i			
1 semester graduate		The supervisor may	make the successfu	l completion of certain modu- opic a prerequisite for the assign-		
Conten	Its					
		y researching and writin in consultation with the		erdisciplinary) topic	in mathematics and/or econo-	
Intend	ed lear	ning outcomes				
thods of	obtaine				atics and apply the skills and me rite down the result of his/her	
Course	S (type, r	number of weekly contact hours	s, language — if other than Ge	rman)		
No cou	rses as	signed to module				
		Sessment (type, scope, lang ole for bonus)	uage — if other than German,	examination offered — if no	ot every semester, information on whether	
Registr	ation a	is (750 to 900 hours tot nd assignment of topic ssessment: German or	in consultation with su	upervisor.		
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Time to	o comp	lete: 6 months				
Worklo						
900 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regulation		ammes)		
Module		ars in				
		ee (1 major) Economath	ematics (2016)			
	-	ee (1 major) Economath				
	-	ee (1 major) Economath				
	-	ee (1 major) Economath				
			(======================================			