



## **Annex SFB**

# Studienfachbeschreibung (subject description, SFB) for the subject Artificial Intelligence and Data Science as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Computer Science Examination regulations version: 2022 Examination regulations version: 2022

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: <b>SS</b> = summer semester, <b>WS</b> = winter semester
	Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully completed
	Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules
	Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>VL</b> = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- thod 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 a 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)):

## 29-Mar-2022 (2022-20)

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.

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS	Duratio		on	(in semesters)	Method of grading		Module level			
	Courses			To be spe	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y						
	Method of as	ssessm	nent								
	Only after successful completion of			if applica	if applicable						
	Other prerequisites			if applicable							
	Participants and allocation of places			if applicable							
	Additional information		if applicable								
	Referred to in LPO I			if applicable (examination regulations for teaching-degree programmes)							

Compulsory Courses (115 ECTS credits)														
Artificial Intelligen	cial Intelligence and Data Science (70 ECTS credits)													
10-I-AKIDS1-222-	Algorit	hms, Al	and Data	Sciend	:e 1									
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (4) +	· Ü (2)									
	Methoo	d of asse	essment	writter If anno of one date). credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus									
10-I-AKIDS2-222-	Algorit	hms, Al	and Data	Science	:e 2									
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (4) +	- Ü (2)									
	Metho			lf anne of one date). credit	f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus									
10-I-PP-KIDS-222-	Practical Course in Programming for Artificial Intelligence and Data Science													
m01	ECTS 10 Duration			n		Method of grading	(not) successfully completed	Modul level	undergraduate					
	Course	S		P (6)	P (6)									
	Methoo	d of asse	essment	practical examination (programming exercises, approx. 240 hours) and written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English										
	other p	rerequis	ites	Intended learning outcomes of the following module are required: 10-I-GdP. It is therefore strongly recommended to complete this before.										
10-I-KIDS-	Artifici	al Intelli	gence an	d Data Science Lab 1										
Lab1-222-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		R (6) Module taught in: German and/or English										
	Methoo	d of asse	essment	presentation of project results (30 to 45 minutes) Language of assessment: German and/or English creditable for bonus										

10-I-KIDS-	Artificial	Intell	igence an	d Data	Science Lab 2						
Lab2-222-m01	ECTS :	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			R (6) Modu	R (6) Module taught in: German and/or English						
	Method	of asse	essment	presentation of project results (30 to 45 minutes) Language of assessment: German and/or English creditable for bonus							
10-I-KIDS-	Artificial	Intell	igence an	d Data	Science Lab 3						
Lab3-222-m01	ECTS 2	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			R (6) Modu	R (6) Module taught in: German and/or English						
	Method	of asse	essment	prese Langu credit	presentation of project results (30 to 45 minutes) Language of assessment: German and/or English creditable for bonus						
10-I-DSML-222-	Data Science & Machine Learning										
m01	ECTS 5 Duratio			<u>n</u>	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		-	V (2) ·	+ Ü (2)						
	Method of assessment			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exami of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per date). creditable for bonus							
10-I-DL-222-m01	Deep Lea	arning			-						
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V (2) ·	V (2) + Ü (2)						
	Method	ofasso	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
	Referred	to in L	.PU I	<u> 9</u> 22	i Nr. 3 b)						

Computer Science	20 ECTS credits)										
10-I-GdP-172-m01	Fundamentals of	f Progra	mming	5							
	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V(2) + U(2)								
	Method of asses	sment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus								
	Referred to in LP	01	§491 §691	§ 49   Nr. 1 b) § 69   Nr. 1 b)							
10-l-MCS-191-m01	Introduction into	o Human	I-Comp	outer Interaction	,						
	ECTS 5	Duratior	ו	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (3) +	- Ü (1)							
	Method of asses	sment	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
10-I-DB-152-m01	Databases										
	ECTS 5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +	V(2) + U(2)							
	Method of asses	sment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per cand date). Language of assessment: German and/or English creditable for bonus								
	Referred to in LP	01	§ 49   Nr. 1 b) § 69   Nr. 1 b)								
10-I-ST-KIDS-222-	Software Techno	ology for	r Artifio	cial Intelligence and	Data Science						
m01	ECTS 5	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) +	+ Ü (2)							
	Method of asses	sment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus								

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	Bachelor's with 1 major Artificial Intelligence and Data Science (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 82 j50 - - H 2022	page 5 / 21

Mathematics (25 E	CTS cree	dits)										
10-M-KIDS1-222-	Mathe	matics f	or Artifici	ial Inte	al Intelligence and Data Science 1							
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (5) + Ü (2)								
	Metho	d of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								
10-M-KIDS2-222-	Mathematics for Artificial Intelligence and Data Science 2											
m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (5) -	+ Ü (2)							
	Metho	d of asse	essment	writte If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinat of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per car date). Language of assessment: German and/or English creditable for bonus							
10-M-KIDS3-222-	Mathe	matics f	or Artifici	ial Inte	lligence and Data So	cience 3						
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (2) ·	+ Ü (1)							
	Metho	d of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus								

<b>Compulsory Electiv</b>	res (35 E	CTS cre	dits)										
Artificial Intelligen	ce and D	ata Scie	ence (15 E	CTS cr	edits)								
10-I-CV-222-m01	Compu	ter Visio	on										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) - Modu	V (2) + Ü (2) Module taught in: German and/or English								
	Methoo	d of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									
	Referre	d to in L	.PO I	§ 22	Nr. 3 b)								
10-I-NLP-222-m01	Natura	Langua	age Proce	ssing	ssing								
	ECIS	5	Duration	$\frac{1}{\sqrt{2}}$	1 semester   Method of grading   numerical grade   Modul level   undergraduate								
	Course	S		Modu	le taught in: German	n and/or English							
	Method of assessment			If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									
	Referre	d to in L	.PO I	§ 22 II Nr. 3 b)									
10-I-SNA-222-m01	Statist	ical Net	work Ana	lysis									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2) + Ü (2) Module taught in: German and/or English									
	Methoo	d of asse	PO I	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus									

Bachelor's with 1 major Artificial Intelligence and Data Science (2022)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 82 j50 - - H 2022	page 7 / 21

10-l-Kog-	Cogniti	ive Syst	ems									
Sys-222-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ Ü (2)		•					
	Method	d of ass	essment	writte	n examination (ap	prox. 60 to 120 minut	es).					
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English							
				Langu								
				credit	creditable for bonus							
10-I-TML-222-m01	Theory	of Mac	hine Lear	ning								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ Ü (2)							
				Modu	le taught in: Germ	an and/or English						
	Methoo	d of ass	essment	writte	n examination (ap	prox. 60 to 120 minut	es). Af the course, the written eve	mination may be	replaced by an oral examination			
				of one	e candidate each (	approx. 20 minutes) o	r an oral examination in grou	ins of 2 candidate	s (approx, 15 minutes per candi-			
				date).								
				Language of assessment: German and/or English								
	_			credit	able for bonus							
	Referred to in LPO 1 § 22 Il Nr. 3 b)											
10-I-AG-	Selecte	ed Fund	amentals	of Arti	ficial Intelligence	and Data Science 1						
NID51-222-11101	ECTS 5 Duratio			n Les ( )	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ U (2)							
	Methoo	d of ass	essment	Written examination (approx. 60 to 120 minutes).								
				of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-								
				date).								
				Language of assessment: German and/or English								
				creditable for bonus								
10-I-AG-	Selecte	ed Fund	amentals	of Arti	ficial Intelligence	and Data Science 2	1					
KIDS2-222-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	V (2) + Ü (2)							
	Methoo	d of ass	essment	written examination (approx. 60 to 120 minutes).								
				of one	It announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx, approx, approx) or an oral examination in groups of a candidates (approx, approx, approx) or an oral examination in groups of a candidates (approx, approx) or an oral examination in groups of a candidates (approx) or an oral examinatis (approx) or an oral examination							
				date).								
				Language of assessment: German and/or English								
				credit	able for bonus	_						

Computer Science	(10 ECTS	6 credits	)									
10-I-RAL-152-m01	Digital	comput	er systen	ns								
	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (4) ·	/ (4) + Ü (2)							
	Metho	d of asse	essment	writte	written examination (approx. 60 to 120 minutes).							
				lf ann	f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
				of one	or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				credit	creditable for bonus							
10-I-RIÜ-191-m01	Compu	iter Netv	vorks and	Inform	nation Transmission							
	ECTS 10 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	s		V (4) ·	+ Ü (2)			•				
	Metho	d of asse	essment	writte If ann of one date) credit	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). date). creditable for bonus							
	Referre	ed to in L	PO I	§ 22	Nr. 3 b), § 69   Nr. 1	c)						
10-I-TIV-152-m01	Theore	tical Inf	ormatics									
	ECTS 5 Duration		1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	es		V (4)								
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
	Referre	ed to in L	PO I	§ 49   § 69	§ 49   Nr. 1 a) § 69   Nr. 1 a)							
10-I-TIT-191-m01	Tutoria	l Theore	etical Info	rmatio	:S							
	ECTS 5 Duratio		Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	:S		Ü (2)	Ü(2)							
	Metho	d of asse	essment	a) exe	a) exercises (consisting in completion of approx. 11 home work exercise sheets, presentation of own solutions in the exercise							
				group	s as well as approx.	5 short assessments	written in the exercise group)	or				
				Die Pi	tten examination (ap riifungsart ist vom Pr	prox. 180 to 240 min üfling festzulegen	utes)					
10-I-TIT-191-m01	Method of assessment Referred to in LPO I <b>Tutorial Theoretical Infe</b> ECTS 5 Duratio Courses Method of assessment			V (4) writte If ann of one date). § 49 I § 69 I rmatic 1 Ü (2) a) exe group b) wri Die Pi	n examination (appr ounced by the lectur e candidate each (ap Nr. 1 a) Nr. 1 a) <b>5</b> 1 semester ercises (consisting in s as well as approx. tten examination (ap üfungsart ist vom Pr	ox. 60 to 120 minutes rer at the beginning o prox. 20 minutes) or Method of grading completion of appro 5 short assessments prox. 180 to 240 min üfling festzulegen	s). f the course, the written exami an oral examination in groups (not) successfully completed x. 11 home work exercise shee written in the exercise group) utes)	ination may be of 2 candidates Modul level ts, presentation or	replaced by an oral examinations (approx. 15 minutes per cand			

10-I-SEC-191-m01	IT Security											
	ECTS 5	Duratior	l	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		$V(2) + \ddot{U}(2)$ Module taught in: German and /or English									
	Method of ass	ecoment	writte	n examination (ann	rox 60 to 120 minute	c)						
	Method of asse	255110111	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination									
			date).					appion. 15 minutes per curran				
	creditable for bonus											
10-l=lCG-161-m01	Interactive Con	nputer Gr	aphics									
	ECTS 5	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) +	- Ü (2)								
	Method of asse	essment	writte	n examination (app	rox. 60 to 120 minute	s).						
			It anno	ounced by the lectu candidate each (a	irer at the beginning o	I the course, the written examination in groups	nation may be i	replaced by an oral examination				
			date).					approx. 15 minutes per canar				
			Separ	ate written examina	ation for Master's stud	lents.						
			Langu	Language of assessment: German and/or English creditable for bonus								
	Additional Info	rmation	Focus	able for bollus	dants of the Master's	programma Informatik (Compu	tor Science 12	ECTS cradita). HCl				
10 LWPS 152 mot	Knowledge ba		rocus			programme mormatik (compu						
10-1-1003-152-11101		Duration	: <b>III5</b>	1 comostor	Method of grading	numerical grade	Modullevel	undergraduate				
		Duration	<u>'</u> V (2) J		Method of glading	numencargiade	Modulievel	undergraduate				
	Method of asse	ecoment	writte	written examination (approx 60 to 120 minutes)								
	Method of asse	Soment	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination									
			ofone	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
			date).	date). Janguaga of accossment: Cormon and for English								
			credit	able for bonus		311		_				
	Referred to in L	.PO I	§ 22    Nr. 3 b)									
10-I-APR-172-m01	Advanced Prog	ramming										
	ECTS 5	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) +	- Ü (2)								
	Method of asse	essment	writte	n examination (app	rox. 60 to 120 minute	s).						
			of one	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx, approx, approx) or an oral examination in groups of a candidates (approx, approx, approx) or an oral examination in groups of a candidate (approx, approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination in groups of a candidate (approx) or an oral examination (approx) or an oral								
			date).	e).								
			Language of assessment: German and/or English									
	Deferred to in 1		credit	able for bonus								
Pacholov's with a main A	Kererrea to in L	.PU I	<u>9 22   </u>	NI. 3 DJ		MILWÜRsburg & generated to Art and		provid Polical I III and a long to fact				
Dachelor S with 1 major A	auncial intelligence an	u Data Scienc	e (2022)			JNO WUIZDUIG • generateu 19-Apr-202	25 🛡 exam. reg. data re	ecolu ozij50 - - ff 2022   page 10 / 21				

10-I-KT-191-m01	Com	putation	tional Complexity									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Cour	ses		V (2) ·	V (2) + Ü (2)							
	Meth	od of as:	sessment	writte If ann of one date). Langu Asses credit	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
	Refe	rred to in	LPO I	§ 22	§ 22    Nr. 3 b)							
10-I-KD-191-m01	Cryp	tography	and Data	Securi	ty							
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Cour	ses		V (2) ·	V (2) + Ü (2)							
	Method of assessment			writte If ann of one date). Langu Asses credit	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
	Referred to in LPO I		LPO I	§ 22    Nr. 3 b)								
10-l-3D-152-m01	3D P	oint Clou	d Processi	ing								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Cour	ses		V (2) ·	+ Ü (2)							
	Refe	rred to in	Sessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus 8 22 II Nr. 2 b)								
	Refe	rea to In	LPUT	8 22 1	i INI. 3 DJ							

10-l-BS-191-m01	Opera	ting Sys	tems								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Cours	es		V (2) - Modu	V (2) + Ü (2) Module taught in: English						
	Metho	od of ass	essment	writte If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
10-I-RAK-152-m01	Comp	uter Arch	nitecture								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Cours	es		V (2) +	+ Ü (2)						
	Metho	od of ass	essment	writte If ann of one date). Langu credit	vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- late). .anguage of assessment: German and/or English creditable for bonus						
	Referr	ed to in I	LPO I	§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur							
10-I-SKS-191-m01	Contro	ol Princip	oles of Mo	dern Communication Systems							
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Cours	es		V (4) +	+ Ü (2)						
	Metho	od of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus							
10-I-BPI-222-m01	Practi	ce/Job-o	riented In	ternsh	ip Computer Scienc	:e					
	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Cours	es		P (o)							
	Metho	od of ass	essment	place Langu	placement report (5 to 10 pages) Language of assessment: German and/or English						
	Additi	onal Info	ormation	block	placement, duratio	n 4 to 6 weeks					

10-I-AGT-152-m01	Algorit	hmic Gr	aph Theo	ry							
	ECTS	5	Duration	า	1 semester	Method of grading numerica	al grade	Modul level	undergraduate		
	Course	S		V (2) -	+ Ü (2)	•			_		
	Methoo	d of ass	essment	writte If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
	Referre	d to in l	POI	§ 22	§ 22 II Nr. 3 b)						
10-l-Gl-152-m01	Selecte	ed Basic	s of Com	outer S	cience						
	ECTS	5	Duration	ı	1 semester	Method of grading numerica	al grade	Modul level	undergraduate		
	Course	S		V (4) -	⊦Ü (2)						
	Method of assessment			writte If ann of one date). Langu credit	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus						
subsidiary subject											
Mathematics											
10-M-DI-	Introdu	uction to	) Discrete	• Mathematics for students of other subjects							
Maf-152-m01	ECTS	10	Duration	า	1 semester	Method of grading numerica	al grade	Modul level	undergraduate		
	Course	S		V (4) + Ü (2)							
	Method of assessment		essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
10-M-NUM1af-152-	Numer	ical Mat	hematics	1 for s	tudents of other su	bjects					
m01	ECTS	10	Duration	า	1 semester	Method of grading numerica	al grade	Modul level	undergraduate		
	Course	S		V (4) -	⊦Ü (2)						
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							

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10-M-STO-1af-152-	Stocha	stics 1 f	or studer	ts of o	ther subjects							
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4) -	√ (4) + Ü (2)							
	Method	d of asso	essment	a) wri b) ora c) ora Langu credit	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
10-M-ZT-	Introdu	iction In	to Numb	er Theo	ory for students of o	other subjects						
Haf-152-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4) -	$(4) + \ddot{U}(2)$							
	Methoo	d of asso	essment	a) wri b) ora c) ora Langu credit	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
10-M-DGLaf-152-	Ordina											
m01	ECTS 10 Duration		n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V (4) -	+ Ü (2)							
	Methoo	d of asso	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (15 to 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
10-M-OML-222-	Optimi	zation f	or Machiı	ne Lear	ning							
m01	ECTS	10	Duratio	<u>n</u>	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (4) + Ü (2) Module taught in: German and/or English								
	Method of assessment			a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								

Physics											
11-EFNF-152-m01	Introdu	uction to	<b>Physics</b>	for Stu	dents of other Disci	plines					
	ECTS	7	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	+ V (3)						
	Method	d of ass	essment	writte	n examination (60 to	o 120 minutes)					
	Additional Information			accor APOL	according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh						
11-PFNF-152-m01	Labora	ratory Course Physics for Students of other Disciplines									
	ECTS	3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		P (4)							
	Methoo	d of ass	essment	a) pra tes). Each be rep	a) practical assignment with oral test (approx. 15 minutes, during experiments) and b) written examination (approx. 90 minu- tes). Each experiment comprises preparation, performance and evaluation. Test as well as performance of experiments can each be repeated once.						
	Particip cation	oants ar of place	nd allo- es	Only a	as part of pool of ger	neral transferable ski	lls (ASQ): 10 places (lottery)				
	Additional Information			according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh							
Economics											
12-EBWL-G-212-	Organi	zation									
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V(2) + T(2)							
	Method of assessment			written examination (approx. 60 minutes) Language of assessment: German and/or English							
12-Ebus-F-212-mo1	E-Busiı	ness									
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2) ·	+ T (2)						
	Method of assessment				a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 pages) and presentation (approx. 10 minutes); (weighted 2:1) or d) oral examination in groups of up to 3 candidates (approx. 10 minutes per candidate) Language of assessment: German and/or English						

12-NW-EV-	Introdu	ction to	Econom	ics - M	as - Minor							
WL-152-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V (2)	/ (2) + Ü (2)							
	Method	l of ass	essment	writte	written examination (approx. 60 minutes)							
	Particip cation o	oants ar of place	nd allo- s	max. senso forma lor's (	nax. 200 places. Modules 12-NW-EBWL and 12-NW-EVWL are not open for students of the following subjects: Wirtschaftswis- senschaft (Business Management and Economics) Bachelor's (BSc with 180 ECTS credits), Wirtschaftsinformatik (Business In- ormation Systems) Bachelor's (BSc with 180 ECTS credits) and Wirtschaftsmathematik (Mathematics for Economics) Bache- or's (BSc with 180 ECTS credits).							
12-ExtUR-G-212-	Accoun	ting										
m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (2)	+ T (2)				_			
	Method	l of ass	essment	writte Langı	written examination (approx. 60 minutes) Language of assessment: German and/or English							
12-IntUR-G-212-	Manage	erial Ac	counting									
m01	ECTS 5 Duratio		า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5		V (2)	+ T (2)							
	Method	l of ass	essment	writte Langı	en examination (app uage of assessment	orox. 60 minutes) : German and/or Eng	lish					
12-BPL-G-212-m01	Supply,	, Produ	ction and	Operations Management								
	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (2) + T (2)								
	Method	l of ass	essment	written examination (approx. 60 minutes) Language of assessment: German and/or English								
12-l&F-G-212-m01	Investm	nent an	d Finance									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V (2)	+ T (2)							
	Method	l of ass	essment	written examination (approx. 60 minutes) Language of assessment: German and/or English								
12-EWiinf-G-212-	Busines	ss Infor	matics									
m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (2)	+ T (2)							
	Method of assessment				written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus							

12-GP-G-152-m01	Integrated Business Processes										
	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) ·	V (2) + Ü (2)							
	Method of ass	essment	a) wri	a) written examination (approx. 60 minutes) or							
			b) term paper (approx. 15 pages) or								
			creditable for bonus								
	Participants ar cation of place	nd allo- es	15 pla ness provio subje (4) A v	15 places. (1) The number of places is not restricted for students of the Bachelor's degree subject Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits). (2) Additional places will be allocated to students of other subjects provided there is enough capacity. These additional places will be allocated by lot among all applicants irrespective of their subjects. (3) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (4) A waiting list will be maintained and places re-allocated by lot as they become available.							
12-FRBE-F-152-m01	Forward and R	everse Bu	siness	Engineering							
	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) ·	+ Ü (2)							
	Method of ass	essment	a) wri b) terr c) terr credit	a) written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 to 15 pages) and presentation (approx. 10 minutes); (weighted 2:1) creditable for bonus							
	Participants ar cation of place	nd allo- es	50 pla Bache rentia accor by lot locate	50 places. Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits) will be given prefe- rential 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. (4) Places on all courses of the module with a restricted number of places will be al- located in the same procedure. (5) A waiting list will be maintained and places re-allocated by lot as they become available.							
Linguistics											
04-DtLABA-BM-	Level One Mod	lule Germ	an Ling	guistics							
SW-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2) ·	+ S (2) + T (1)							
	Method of ass	essment	written examination (approx. 75 minutes)								
	Referred to in I	LPO I	§ 43   § 63	Nr. 2 b) Nr. 2 b)							
04-DtLABA-AM-	Level Two Mod	lule Gram	matica	l Structures of Gern	nan						
SW1-152-m01	ECTS 5	Duratio	n		Method of grading	numerical grade	Modul level	undergraduate			
	Courses	<u>.</u>	V (1) +	- S (2) + T (1)							
	Method of ass	essment	writte	n examination (app	rox. 75 minutes)						
	Referred to in I	LPO I	§ 43   § 63	Nr. 2 b) Nr. 2 b)							

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Biology										
07-1A1TI-152-m01	Evolution and	the Anima	al King	dom						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) -	+ Ü (3)						
	Method of ass	essment	writte credit	written examination (approx. 60 minutes) creditable for bonus						
	other prerequi	sites	Admis ses (a	Admission prerequisite to assessment: exercises. Regular attendance (minimum 80%) and successful completion of exerci- ses (approx. 25 to 30 hours) are prerequisites for admission to assessment.						
	Referred to in L	PO I	§ 41   § 61	§ 41   Nr. 1 (4 ECTS credits) and § 41   Nr. 4 (1 ECTS credits) § 61   Nr. 1 (4 ECTS credits) and § 61   Nr. 4 (1 ECTS credits)						
07-2A2GEN-	Genetics, Neur	obiology	, Behav	viour						
V-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (3)							
	Method of asso	essment	writte credit	written examination (approx. 60 to 90 minutes) creditable for bonus						
	other prerequi	sites	Admis ses (a	ssion prerequisite to pprox. 25 to 30 hou	o assessment: exercis Irs) are prerequisites	ses. Regular attendance ( for admission to assessn	(minimum 80%) and s nent.	successful completion of exerci-		
	Referred to in L	PO I	§ 61   § 61   § 61	Nr. 2 (2 ECTS credit Nr. 3 (1 ECTS credits Nr. 4 (1 ECTS credits	s) s) s)					
07-M-BST-152-m01	Mathematical	Biology a	and Biostatistics							
	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) + Ü (2)							
	Method of asso	essment	written examination (approx. 60 minutes) creditable for bonus							
07-3A30E-	Plant and Anin	nal Ecolog	sy	ý j						
KO-152-m01	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) + Ü (2)							
	Method of asso	essment	written examination (approx. 90 minutes) creditable for bonus							
	Referred to in L	PO I	§ 61 l	Nr. 4						
07-3A3GEM-	Genes, Molecu	les, Tech	nologi	es						
T-152-m01	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4)							
	Method of asso	essment	writte credit	n examination (app able for bonus	rox. 90 minutes)					

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Law										
02-J1-171-m01	Introduction	to the Geri	nan Le	gal System						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4)	/ (4)						
	Method of as	sessment	writte	written examination (approx. 120 minutes)						
	Participants a cation of place	and allo- ces	max. 8 ven pi locate ted in	max. 80 places. Students applying after not having successfully completed assessment in the past two semesters will be given preferential consideration. The remaining places will be allocated by lot. A waiting list will be maintained and places re-al- located by lot as they become available. Places on all courses of the module with a restricted number of places will be alloca- ted in the same procedure.						
02-G&Hre-G-212-	Commercial a	l and Business Law for Economics and Management								
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (3) -	- Ü (2)						
	Method of as	sessment	writte Asses	n examination (appi sment offered: Usua	rox. 120 minutes) ally once a year, sum	mer semester				
Geography										
04-Geo-FER-	Introduction	to Geograp	ohical F	Remote Sensing						
NE-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) - Modu	+ T (2) le taught in: Germar	n and/or English					
	Method of as	sessment	written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus							
	Referred to ir	n LPO I	§ 66 I	§ 66   Nr. 2						
04-Geo-FER-	Applications	of Remote	Sensir	ig in Geography						
NA-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) + T (2) Module taught in: German and/or English							
	Method of as	sessment	writte Langu credit	written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus						
Medicine										
03-M-MT-152-m01	Practical Cou	ırse in med	ical ter	minology						
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	unknown		
	Courses		P (o)				-	·		
	Method of as	sessment	writte	n examination (appi	rox. 60 to 90 minutes					

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Key Skills Area (20 ECTS credits)										
General Key Skills (5 ECTS credits) In addition to the modules listed below, students may also take modules offered by JMU as part of the pool of general transferable skills (ASQ).										
General Key Skills (subject-specific)										
10-I-TUT1-152-m01	Tutor activity 1									
	ECTS 2 Duration		n		Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	S		T (2)						
	Method of assessment		Wrap-up report on tutoring activities (5 to 10 pages)							
	Referred to in LPO I			§ 22    Nr. 2 f) § 22    Nr. 3 f)						
10-I-TUT2-152-m01	Tutor a	ctivity 2								
	ECTS	2	Duratior	n		Method of grading	(not) successfully completed	Modul level	undergraduate	
	Course	S		T (2)	T (2)					
	Method of assessment		Wrap-	Wrap-up report on tutoring activities (5 to 10 pages)						
	Referred to in LPO I			§ 22    Nr. 2 f) § 22    Nr. 3 f)						
10-I-TUT3-152-m01	01 Tutor activity 3									
	ECTS 2 Duration			1		Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses		Τ (2)							
	Methoo	l of asse	essment	Wrap-	up report on tutorinន្	ring activities (5 to 10 pages)				
Subject-specific Key Skills (15 ECTS credits)										
10-I-SEM-	Seminar - Selected Topics in Artificial Intelligence and Data Science									
KIDS-222-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		S (2)						
	Methoo	l of asse	essment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion Language of assessment: German and/or English						
10-I-KIDS-PW-222- m01	Artificia	al Intelli	gence an	d Data Science Project Workshop						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			R (3) Module taught in: German and/or English						
	Method of assessment			presentation of project results (30 to 45 minutes) Language of assessment: German and/or English creditable for bonus						

10-I-PV-152-m01	Project Presentation									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			S (5)	S (5)					
	Method of assessment			presentation of a project developed by the candidate analogous to a presentation for laypersons with a knowledge of compu- ter science at a trade fair as well as discussion (approx. 10 to 15 minutes total) Language of assessment: German and/or English						
	Referred to in LPO I			§ 22 II Nr. 3 b)						
Thesis (10 ECTS credits)										
10-I-KIDS-BA-222-	Bachelor-Thesis Artificial Intelligence and Data Science									
mo1	ECTS 10 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	25		No courses assigned to module						
	Method	d of asse	essment	Bachelor's thesis (approx. 50 to 100 pages) Language of assessment: German and/or English						
	Additional Information			Time to complete: 10 weeks.						