

Subdivided Module Catalogue for the Subject

Didactics in Mathematics (Middle School)

as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt an Mittelschulen"

> Examination regulations version: 2015 Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Mathematics

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:

LASPO2015

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

05-Oct-2015 (2015-188)

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.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
Compulsory Courses (20 E	CTS credits)		•	
cus on teaching methodolo	nodules worth 20 ECTS credits in each subject selected as Didakt ogy) is a prerequisite for admission to the Erste Staatsprüfung (Fin ergruppe der Mittelschule (Didactics of a Group of Subjects of Mit	st State Ex	bject studied w amination) in t	ith a fo he sub
10-M-MM1-152-m01	Mathematics in German Mittelschule - Arithmetics	5	NUM	14
10-M-MM2-152-m01	Mathematics in German Mittelschule - Algebra	5	NUM	15
10-M-MM3-152-m01	Mathematics in German Mittelschule - Geometry	5	NUM	16
10 M MM (150 mot	Mathematics in German Mittelschule - Application-oriented Te-	_	NILIAA	<u> </u>
10-M-MM4-152-m01	aching and Stochastics	5	NUM	17
eaching degree students m ect-specific electives) (Sect o achieve the required num reier Bereich interdiscipli ex "Ergänzende Bestimmu	ell as subject-specific electives) nust take modules worth a total of 15 ECTS credits in the area Freid ion 9 LASPO (general academic and examination regulations for the ober of ECTS credits, students may take any modules from the are nary: The interdisciplinary additional offer for a teaching degree of orgen für den "Freien Bereich" im Rahmen des Studiums für ein Le	teaching-de as below. can be four	egree programi	mes)).
-	ematics at the German Mittelschule well as subject-specific electives) subject specific)			
10-M-DCMU-152-m01	Computers in Mathematical Teaching	3	B/NB	4
10-M-DMMS1-152-m01	Methodology of Teaching in Mathematics 1 (German Mittel- schule)	3	B/NB	7
10-M-DMMS2-152-m01	Methodology of Teaching in Mathematics 2 (German Mittel- schule)	3	B/NB	8
10-M-DVMS1-152-m01	Advanced Didactics of Mathematics 1 (German Mittelschule)	2	B/NB	11
10-M-DVMS2-152-m01	Advanced Didactics of Mathematics 2 (German Mittelschule)	2	B/NB	12
10-M-DVHB-152-m01	E-Learning and Blended Learning in Mathematical Teaching (virtual Course)	3	B/NB	9
10-M-VHBAri-152-m01	Basics in Arithmetics (virtual course)	2	B/NB	18
10-M-VHBGeo-152-mo1	Basics in School Geometry (virtual course)	2	B/NB	26
10-M-VHBSto-152-m01	Stochastics in Sekundarstufe I (virtual course)	2	B/NB	34
10-M-VHBM10-152-m01	Mathematics in grade 10 (virtual course)	2	B/NB	28
10-M-DGMS-152-m01	Didactics of Elementary School Mathematics for Teachers at German Mittelschule and Special Education	2	B/NB	6
10-M-VHBDG-152-m01	Didactics of Geometry (virtual course)	2	B/NB	22
10-M-VHBDA-152-m01	Didactics of Algebra (virtual course)	2	B/NB	20
10-M-VHBEx-152-m01	Exam Tutorial Didactics of Mathematics (virtual course)	2	B/NB	24
10-M-VHBMa1-152-m01	Mathematics 1 (virtual course)	2	B/NB	30
10-M-VHBMa2-152-m01	Mathematics 2 (virtual course)	2	B/NB	32
aper (10 ECTS credits) reparation of a written Hau eaching-degree programme tate Examination). In accore e may write this thesis in th chule), in the subject they	sarbeit (thesis) in accordance with the provisions of Section 29 L s) is a prerequisite for teaching degree students to be admitted t dance with the provisions of Section 29 LPO I, students studying e subject Didaktik einer Fächergruppe der Mittelschule (Didactic selected as Unterrichtsfach (subject studied with a focus on the ten (Educational Science). Pursuant to Section 29 Subsection 1 S	PO I (exam o the Erste for a teach s of a Grou scientific di	ination regulat Staatsprüfung ing degree Mit p of Subjects o scipline) or in	tions f (First telsch f Mitte the su
o choose to write an interd	isciplinary thesis.			1

	10-M-HMMSD-152-m01	Thesis in Mathematics as Didaktikfach (German Mittelschule)	10	NUM	13
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Modul	e title				Abbreviation	
Compu	uters in	Mathematical Teaching	g		10-M-DCMU-152-m	01
Modul	e coord	inator		Module offered by	<u> </u>	
Dean o	of Studi	es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
3		successfully completed		•		
Durati	on	Module level	Other prerequisites	;		
1 seme	ester	undergraduate				
Conte	nts					
Discus puter t		possible ways to use c	omputers in teaching r	nathematics as well	as discussion of con	nmon com-
Intend	ed lear	ning outcomes				
		acquainted with basic s with the potential and			ters in the teaching	of mathema-
		, number of weekly con	· · ·		un)	
V (2)	 (type	, number of weekly con				
	d of as	sessment (type, scope,	language — if other th	an German, examina	tion offered — if not	every seme-
		ion on whether module				every seme-
		15 pages) ffered: Every two years	, winter semester			
Alloca	tion of	olaces				
Additi	onal inf	ormation				
Workle	oad					
90 h						
Teachi	ing cycl	e				
Referr	ed to in	LPOI (examination reg	gulations for teaching-	degree programmes)		
§ 22	Nr. 2 f)					
	Nr. 1 h)					
	Nr. 3 f)					
	e appea					
1		mination for the teachi				
		mination for the teachi mination for the teachi	,		athematics (Middle	School)
(2015)	αις ελα					501000)
_	ate exa	mination for the teachi	ng degree Mittelschule	e Mathematics (2015))	
		mination for the teachi				ol) (2015)
1		mination for the teachi		-		
First st 2015))	ate exa	mination for the teachi	ng degree Mittelschule	e Mathematics (2020	(Prüfungsordnungs	version
		mination for the teachi nungsversion 2015))	ng degree Mittelschule	e Didactics in Mather	natics (Middle Scho	ol) (2020
	-	mination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
1		gsordnungsversion 20:				
exchai	nge pro	gram Mathematics (202	23)			
LA Mittels School) (2		actics in Mathematics (Middle		enerated 18-Apr-2025 • exam elschulen (Didaktikfach) Matł	-	page 4 / 35



Module	e title				Abbreviation
		lementary School Mathe	matics for Teachers a	t German Mittel-	10-M-DGMS-152-m01
schule	and Sp	ecial Education			_
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathen	natics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
2	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Discuss	sion of	selected methods for tea	aching mathematics i	n Mittelschule.	
Intende	ed lear	ning outcomes			
			nt methods of teachir	g mathematics at G	erman Mittelschule, can assess
their re	spectiv	•		-	appropiate method depending or
		, number of weekly conta	act hours, language –	· if other than Germa	an)
S (2)					
Method	d of ass	essment (type, scope, la	anguage — if other tha	an German, examina	ation offered — if not every seme-
		on on whether module c			
a) talk	(approx	<. 45 minutes) or			
		(5 to 10 pages) or			
		to 15 pages) ffored. Even two vectors in	vintor comoctor		
		ffered: Every two years, v	winter semester		
Allocat	ion of p	olaces			
Additio	nal inf	ormation	-		
 Would a					
Worklo	ad				
60 h			-		
Teachi	ng cycl	e			
		LPOI (examination regu	llations for teaching-o	legree programmes))
§ 22 § 22					
Module	e appea	ars in			
First sta	ate exa	mination for the teaching	g degree Realschule N	Aathematics (2015)	
First sta (2015)	ate exa	mination for the teaching	g degree Sonderpäda	gogik Didactics in N	lathematics (Middle School)
First sta	ate exa	mination for the teaching	g degree Mittelschule	Mathematics (2015)
					matics (Middle School) (2015)
First sta 2015))	ate exa	mination for the teaching	g degree Mittelschule	Mathematics (2020) (Prüfungsordnungsversion
		mination for the teaching nungsversion 2015))	g degree Mittelschule	Didactics in Mather	matics (Middle School) (2020
First sta	ate exa			gogik Didactics in N	lathematics (Middle School)
		gram Mathematics (2023			

Module	titla				Abbreviation
		of Teaching in Mathemat	tics 1 (German Mittels	schule)	10-M-DMMS1-152-m01
		-	· .	-	10 M DMM31 152 M01
Module				Module offered by	
		es Mathematik (Mathema	· ·	Institute of Mathem	natics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
3	<u> </u>	successfully completed			
Duratio		Module level undergraduate	Other prerequisites		
		undergraduate			
Conten			1		
		selected methods for tea	ching mathematics ii	n Mittelschule.	
		ning outcomes			
					erman Mittelschule, can assess appropiate method depending on
		ind the subject.			
Courses	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	an)
S (2)					
		essment (type, scope, la on on whether module ca			ation offered — if not every seme-
		. 45 minutes) or	an be chosen to earn	a bonus)	
		(5 to 10 pages) or			
		to 15 pages)			
Assess	ment o	ffered: Every two years, w	vinter semester		
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachir	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes))
§ 22 N	Vr. 1 h)				
Module	appea	rs in			
First sta (2015)	ate exa	mination for the teaching	degree Sonderpäda	gogik Didactics in M	athematics (Middle School)
	ate exa	mination for the teaching	degree Mittelschule	Mathematics (2015))
			-		natics (Middle School) (2015) 9 (Prüfungsordnungsversion
First sta		mination for the teaching ungsversion 2015))	degree Mittelschule	Didactics in Mather	natics (Middle School) (2020
First sta (2020 (ate exa Prüfun	mination for the teaching gsordnungsversion 2015))	gogik Didactics in M	athematics (Middle School)
excrian	ge hloð	gram Mathematics (2023))		

Module	title				Abbreviation
		of Teaching in Mathemat	tics 2 (German Mittel	schule)	10-M-DMMS2-152-m01
		• •			
Module				Module offered by	·
		es Mathematik (Mathema		Institute of Mathem	natics
ECTS 3		od of grading successfully completed	Only after succ. com	ipi. of module(s)	
5 Duratio	<u> </u>	Module level	Other prerequisites		
1 seme		undergraduate			
Conten		undergraduate	L		
		selected methods for tea	ching mathematics in	n Mittelschule	
		ning outcomes		i mittelsenate.	
			t methods of toachin	a mathematics at G	erman Mittelschule, can assess
					appropiate method depending on
	•	and the subject.			
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	an)
S (2)					
					ation offered — if not every seme-
ster, in	formati	on on whether module ca	an be chosen to earn	a bonus)	
		(. 45 minutes) or			
		(5 to 10 pages) or to 15 pages)			
		ffered: Every two years, s	ummer semester		
Allocat		· · ·			
	•				
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
	3 59 51	-			
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
§ 22					
Module		urs in			
			degree Sondernäda	gogik Didactics in M	athematics (Middle School)
(2015)			, <u>.</u>	<u></u>	(
		mination for the teaching	-		
First sta			-		natics (Middle School) (2015) 9 (Prüfungsordnungsversion
		mination for the teaching ungsversion 2015))	g degree Mittelschule	Didactics in Mather	natics (Middle School) (2020
First sta (2020 (ate exa Prüfun	mination for the teaching gsordnungsversion 2015))	gogik Didactics in M	athematics (Middle School)
exchan	ge prog	gram Mathematics (2023))		

Module				Abbreviation	
E-Learr	ning and Blended Learning in M	athematical Teaching (virtual Course)	10-M-DVHB-152-m0	1
Module	e coordinator	N	Nodule offered by	<u> </u>	
Dean o	f Studies Mathematik (Mathem	atics)	nstitute of Mathem	natics	
ECTS	Method of grading	Only after succ. comp	l. of module(s)		
3	(not) successfully completed				
Duratio		Other prerequisites			
1 seme					
Conten					
	urse offered by Virtuelle Hochsc ques in e-learning and blended			acquainted with and	reflects on
	ed learning outcomes				
The stu	ident is acquainted with basic n their potentials and limitations		nd blended learnir	ng in teaching methe	matics, as
Course	s (type, number of weekly conta	ct hours, language — i	f other than Germa	n)	
Ü (2)	type: eLearning, mostly Virtuel				
	d of assessment (type, scope, la formation on whether module c			tion offered — if not	every seme
	(web-based, 15 to 20 hours) ment offered: Once a year, wint	er semester			
Allocat	ion of places				
Additio	onal information				
naunne		-			
 Worklo					
90 h					
-					
Teachi	ng cycle				
Referre	ed to in LPO I (examination regu	lations for teaching-de	gree programmes)		
§ 22 § 22 § 22	Nr. 2 f)				
-	e appears in				
	ate examination for the teaching	degree Grundschule M	Aathematics (2015)	
	ate examination for the teaching	-	-		ol) (2015)
	ate examination for the teaching	-			
	ate examination for the teaching	-			
	ate examination for the teaching	- ,		athematics (Primary	School)
(2015)					
(2015)	ate examination for the teaching		-		School)
	ate examination for the teaching	-	_		
	ate examination for the teaching	-			01) (2015)
	ate examination for the teaching		-		· - · - •
First sta 2015))	ate examination for the teaching	g aegree Mittelschule N	athematics (2020	(Prutungsordnungs)	version
	hulen Didactics in Mathematics (Middle	18411147	erated 18-Apr-2025 • exam	and date	page 9 / 35

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

Module	e title				Abbreviation
Advand	ed Did	actics of Mathematics 1	(German Mittelschule	e)	10-M-DVMS1-152-m01
Module	e coord	inator		Module offered by	<u> </u>
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	Its				
lar mat possib	hemati le appr	ical foundations, didactions and the classroom.	analyses, contempo		nt different aspects, in particu- mathematics didactics as well as
		ning outcomes			
		able to discuss central t t-specific, didactical and		eaching mathemati	cs in German Mittelschule, consi
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
S (2)					
Metho		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-
	ment o	to 15 pages) iffered: Every two years, v p laces	vinter semester		
Additio	onal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cvcl	e			
	0 . 7				
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
§ 22					
Module	e appea	ars in			
First sta (2015)	ate exa	mination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Middle School)
	ate exa	mination for the teaching	g degree Mittelschule	Mathematics (2015))
			-		natics (Middle School) (2015) 9 (Prüfungsordnungsversion
First st		mination for the teaching nungsversion 2015))	g degree Mittelschule	Didactics in Mather	natics (Middle School) (2020
First st	ate exa (Prüfun))	gogik Didactics in M	athematics (Middle School)

Module	e title				Abbreviation
Advanc	ed Did	actics of Mathematics 2	(German Mittelschul	e)	10-M-DVMS2-152-m01
Module	e coord	inator		Module offered by	<u> </u>
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS	Methe	od of grading	Only after succ. con	pl. of module(s)	
2	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
lar mat possib	hemati le appr	cal foundations, didactions and the classroom.	: analyses, contempo		nt different aspects, in particu- mathematics didactics as well as
Intend	ed lear	ning outcomes			
		able to discuss central t t-specific, didactical and	•	eaching mathemati	cs in German Mittelschule, consi-
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
S (2)		· · · · · · · · · · · · · · · · · · ·			
Metho		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-
Assess Allocat		ffered: Every two years, s places	summer semester		
Additio	onal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	llations for teaching-o	legree programmes)	
§ 22	Nr. 1 h)				
Module		ars in			
			g degree Sonderpäda	gogik Didactics in M	athematics (Middle School)
	ate exa	mination for the teaching	g degree Mittelschule	Mathematics (2015))
					matics (Middle School) (2015) 9 (Prüfungsordnungsversion
First sta		mination for the teaching nungsversion 2015))	g degree Mittelschule	Didactics in Mather	natics (Middle School) (2020
First sta (2020 (ate exa (Prüfun))	gogik Didactics in M	athematics (Middle School)

Modul					Abbreviation
Thesis	in Mat	hematics as Didaktikfach	ı (German Mittelschu	ıle)	10-M-HMMSD-152-m01
Modul	e coord	inator		Module offered	i by
Dean c	of Studi	es Mathematik (Mathema	atics)	Institute of Mat	thematics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)
10	nume	rical grade			
Durati	on	Module level	Other prerequisites		
2 seme	ester	undergraduate			
Conter	nts				
		y researching and writing supervisor.	on a topic in mathen	natics or mather	matics didactics selected in consulta
Intend	ed lear	ning outcomes			
tained	during		aching degree progra	mme. He/She ca	nd apply the skills and methods ob- an write down the result of his/her ics.
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Ge	erman)
Νο cou	urses as	signed to module			
		sessment (type, scope, la ion on whether module ca			mination offered — if not every seme-
	rbeit (tł hours)	nesis) pursuant to Section	n 29 LPO I (examinati	on regulations f	or teaching-degree programmes) (250
Alloca	tion of	places			
Additio	onal inf	ormation			
Worklo	oad				
300 h					
Teachi	ing cycl	e			
			-		
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree program	mes)
§ 29					
	e appe	ars in			
			g degree Mittelschule	Didactics in Ma	thematics (Middle School) (2015)
		mination for the teaching			

	e title				Abbreviation
Mathe	matics	in German Mittelschule -	- Arithmetics		10-M-MM1-152-m01
Modul	e coord	inator		Module offered by	•
Dean c	of Studi	es Mathematik (Mathema	atics)	Institute of Mather	natics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	;	
1 seme	ester	undergraduate			
Conter	nts				
		basic topics in teaching of implementation in the			count didactic aspects as well a blogies.
Intend	ed lear	ning outcomes		_	
tects c suppo	ommor rt. He/S		nisconceptions of pu earning strategies an	pils and knows about the pils and knows about the pils and knows about the pils and	t in teaching mathematics, de- ut adequate countermeasures an an)
V (2) +	Ü (2)				
written If anno examir	exami ounced	ion on whether module c nation (approx. 60 to 90 by the lecturer at the beg	minutes) inning of the course,		ation may be replaced by an oral
Langua ons foi	age of a teachi	tes per candidate). ssessment: German; exc ng-degree programmes)		r an oral examination	n in groups of 2 candidates (ap-
Langua ons foi	age of a	tes per candidate). ssessment: German; exc ng-degree programmes)		r an oral examination	n in groups of 2 candidates (ap-
Langua ons foi Allocat	age of a teachi t ion of J	tes per candidate). ssessment: German; exc ng-degree programmes) places		r an oral examination	n in groups of 2 candidates (ap-
Langua ons for Allocat	age of a teachi t ion of J	tes per candidate). ssessment: German; exc ng-degree programmes)		r an oral examination	
Langua ons for Allocat Additic	age of a teachi tion of p	tes per candidate). ssessment: German; exc ng-degree programmes) places		r an oral examination	n in groups of 2 candidates (ap-
Langua ons for Allocat Additio Worklo	age of a teachi tion of p	tes per candidate). ssessment: German; exc ng-degree programmes) places		r an oral examination	n in groups of 2 candidates (ap-
Langua ons foi Allocat Additio Worklo 150 h	age of a teachi tion of p onal inf	tes per candidate). Issessment: German; exc ng-degree programmes) places ormation		r an oral examination	n in groups of 2 candidates (ap-
Langua ons foi Allocat Additio Worklo 150 h	age of a teachi tion of p	tes per candidate). Issessment: German; exc ng-degree programmes) places ormation		r an oral examination	n in groups of 2 candidates (ap-
Langua ons foi Allocat Additio Worklo 150 h Teachi	age of a teachi tion of p onal inf pad	tes per candidate). Issessment: German; exc ng-degree programmes) places ormation e	eptions pursuant to s	r an oral examination Section 29 Subsecti	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
Langua ons foi Allocat Additio Worklo 150 h Teachi Referro	age of a teachi tion of p onal inf pad	tes per candidate). Issessment: German; exc ng-degree programmes) places ormation	eptions pursuant to s	r an oral examination Section 29 Subsecti	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
Langua ons for Allocat Additio Worklo 150 h Teachi Referro § 38 1	age of a teachi tion of p onal inf pad ng cycl ed to in	tes per candidate). Issessment: German; exc ng-degree programmes) places ormation e LPOI (examination regu	eptions pursuant to s	r an oral examination Section 29 Subsecti	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
Langua ons foi Allocat Additio Worklo 150 h Teachi Teachi S 38 1 Modulo First st	age of a teachi tion of p onal inf oad ng cycl ed to in Nr. 1 e appea	tes per candidate). ssessment: German; exc ng-degree programmes) places formation e LPOI (examination regu	eptions pursuant to s	r an oral examination Section 29 Subsecti degree programmes	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
Langua ons foi Allocat Additio Worklo 150 h Teachi Teachi S 38 l I Modulo First st (2015) First st (2015)	age of a teachi tion of p onal inf onal inf oad ng cycl ed to in Nr. 1 e appea ate exa ate exa ate exa ate exa	tes per candidate). ssessment: German; exc ng-degree programmes) places ormation e LPOI (examination regu ars in mination for the teaching mination for the teaching	eptions pursuant to s lations for teaching- g degree Sonderpäda g degree Mittelschule g degree Mittelschule	r an oral examination Section 29 Subsecti degree programmes gogik Didactics in Nathe Didactics in Mathe	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
Langua ons foi Allocat Additio Worklo 150 h Teachi Teachi S 38 I I Module First st (2015) First st First st (Prüfur First st (2020	age of a teachi tion of p onal inf onal	tes per candidate). ssessment: German; exc ng-degree programmes) places ormation e LPOI (examination regu ars in mination for the teaching mination for the teaching	eptions pursuant to s ended in the second se	r an oral examination Section 29 Subsecti degree programmes gogik Didactics in Nathe Didactics in Mathe	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati

Nodule	e title				Abbreviation
		n German Mittelschule -	Algebra		10-M-MM2-152-m01
Module	e coordii	nator		Module offered by	
Dean o	f Studie:	s Mathematik (Mathema	atics)	Institute of Mathen	natics
CTS	Metho	d of grading	Only after succ. con	npl. of module(s)	
5	numeri	cal grade			
Duratio	on l	Module level	Other prerequisites	i	
l seme	ster	undergraduate			
Conten	ts				
		oasic topics in teaching implementation in the o			nt didactic aspects as well as logies.
ntende	ed learni	ing outcomes			
ies an knows	d typical teachinន្		ils and knows about s and can assess the	adequate counterm m.	natics, detects common difficul- easures and support. He/She an)
/ (2) +	Ü (2)				
ster, in	formatio	on on whether module ca			ation offered — if not every seme
written f anno examin prox. 14 angua pns for	examina unced b ation of 5 minute ge of as teachin	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes)	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin prox. 14 angua pns for	examina unced b ation of 5 minute age of as	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes)	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral
written f anno examin prox. 1 <u>1</u> angua pns for Allocat	examina unced b ation of 5 minute ge of as teachin ion of pl	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes) laces	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin prox. 1 <u>1</u> angua pns for Allocat	examina unced b ation of 5 minute ge of as teachin	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes) laces	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin prox. 1 angua pns for Allocat - Additio	examina unced b ation of 5 minute ge of as teachin ion of pl	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes) laces	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin prox. 1 angua pns for Allocat - Additio - Worklo	examina unced b ation of 5 minute ge of as teachin ion of pl	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes) laces	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin orox. 11 angua ons for Allocat - Additio - Worklo	examina unced b ation of 5 minute ge of as teachin ion of pl mal info	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). (sessment: German; exc g-degree programmes) (aces) (mation)	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin orox. 11 angua ons for Allocat - Additio - Worklo	examina unced b ation of 5 minute ge of as teachin ion of pl	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). (sessment: German; exc g-degree programmes) (aces) (mation)	an be chosen to earn minutes) inning of the course, oprox. 20 minutes) or	a bonus) the written examina r an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
written f anno examin prox. 1 angua pons for Allocat - Additio - Morklo 50 h	examina unced b ation of ge of as teachin ion of pl mal info	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). (sessment: German; exc g-degree programmes) (aces) (mation)	an be chosen to earn minutes) ;inning of the course, pprox. 20 minutes) or eptions pursuant to S	a bonus) the written examination an oral examination Section 29 Subsection	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
written f anno examin orox. 1 angua ons for Allocat - Additio - Morklo - 50 h Feachin - Referre	examina unced b ation of pminute ge of as teachin ion of pl mal info ad	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). (sessment: German; exc g-degree programmes) (aces) (mation)	an be chosen to earn minutes) ;inning of the course, pprox. 20 minutes) or eptions pursuant to S	a bonus) the written examination an oral examination Section 29 Subsection	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulation
written f anno examin prox. 1 angua pros for Allocat - Additio - So h Feachin - Referre	examination examination of plation of platio	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). (sessment: German; exc g-degree programmes) (aces rmation	an be chosen to earn minutes) ;inning of the course, pprox. 20 minutes) or eptions pursuant to S	a bonus) the written examination an oral examination Section 29 Subsection	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulation
written f anno examin orox. 14 angua ons for Allocat - Additio - So h Feachin - Referre 3 38 I N Module	examination examination of plation of plate of as teachin ion of plate of a streachin	on on whether module ca ation (approx. 60 to 90 y the lecturer at the beg one candidate each (ap es per candidate). sessment: German; exc g-degree programmes) laces rmation	an be chosen to earn minutes) ;inning of the course, oprox. 20 minutes) or eptions pursuant to S	a bonus) the written examination an oral examination Section 29 Subsection degree programmes	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati

	e title				Abbreviation
Mathe	matics	in German Mittelschule	- Geometry		10-M-MM3-152-m01
Modul	e coord	inator		Module offered by	•
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mather	natics
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	i	
l seme	ester	undergraduate			
Conter	its				
		basic topics in teaching f implementation in the			ount didactic aspects as well as blogies.
ntend	ed lear	ning outcomes			
metry. commo port. H	He/She on diffic e/She	e knows about criteria to culties and typical misco knows teaching and lear	assess media and th nceptions of pupils a ning strategies and ca	eir employment in t nd knows about ade an assess them.	ng techniques in the fields of geo eaching mathematics, detects equate countermeasures and su
		, number of weekly conta	act hours, language –	- If other than Germa	an)
V (2) +	Ü (2)				
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme
lf anno examir prox. 1	ounced nation o 5 minut	of one candidate each (a tes per candidate).	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
lf anno examir prox. 1 Langua ons for	ounced nation o 5 minut age of a	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes)	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat	ounced nation of 5 minut age of a r teachi tion of p	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) blaces	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat	ounced nation of 5 minut age of a r teachi tion of p	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes)	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat Additic	unced nation c 5 minut age of a r teachi tion of p onal inf	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) blaces	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat Additic Worklo	unced nation c 5 minut age of a r teachi tion of p onal inf	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) blaces	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat Additio Worklo 150 h	nation of 5 minut age of a r teachi tion of p pnal inf	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat Additio Worklo 150 h	unced nation c 5 minut age of a r teachi tion of p onal inf	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	
If anno examir prox. 1 Langua ons for Allocat Additio Worklo 150 h	ounced nation of 5 minut age of a r teachi tion of p pnal inf	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation	ginning of the course, oprox. 20 minutes) or	the written examina an oral examination	n in groups of 2 candidates (ap-
If anno examir prox. 1 Langua ons for Allocat Morklo 150 h Teachi	nation of 5 minut age of a teachi tion of p onal inf	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation	ginning of the course, oprox. 20 minutes) or ceptions pursuant to 9	the written examination	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
If anno examir prox. 1 Langua ons for Allocat Morklo 150 h Teachi Referre	nation of 5 minut age of a r teachi tion of p onal inf pad	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation	ginning of the course, oprox. 20 minutes) or ceptions pursuant to 9	the written examination	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
If anno examir prox. 1 Langua ons for Allocat Additio Teachi Referro § 38 1	nation of 5 minut age of a r teachi tion of p onal inf pad	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) blaces ormation e LPOI (examination regu	ginning of the course, oprox. 20 minutes) or ceptions pursuant to 9	the written examination	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
If anno examir prox. 1 Langua ons for Allocat Moditio Teachi Referre § 38 I I Modul First st	ed to in Nr. 1 e appea	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation e LPO I (examination regu	ginning of the course, oprox. 20 minutes) or ceptions pursuant to s discrete sections for teaching-o	the written examination an oral examination Section 29 Subsecti	n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
If anno examir prox. 1 Langua ons for Allocat Additio Worklo 150 h Teachi Bash Sall First st (2015) First st (2015) First st (Prüfur	ed to in Nr. 1 e appea ate exa ate exa ate exa ate exa	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation e LPOI (examination regu ars in mination for the teaching mination for the teaching	ginning of the course, oprox. 20 minutes) or ceptions pursuant to s ulations for teaching-o g degree Sonderpäda g degree Mittelschule g degree Mittelschule	the written examination an oral examination Section 29 Subsecti degree programmes gogik Didactics in Mathe Didactics in Mathe	n in groups of 2 candidates (ap- on 4 LPO I (examination regulat) Nathematics (Middle School) matics (Middle School) (2015) matics (Middle School) (2020
If anno examir prox. 1 Langua ons for Allocat Morklo 150 h Teachi Referro § 38 I Module First st (2015) First st (Prüfur First st (2020	unced nation of 5 minut age of a teachi tion of p onal inf oad ng cycl ad ed to in Vr. 1 e appea ate exa ate exa ate exa ate exa (Prüfun	by the lecturer at the beg of one candidate each (ap tes per candidate). ssessment: German; exc ng-degree programmes) olaces ormation e LPOI (examination regu ars in mination for the teaching mination for the teaching	ginning of the course, oprox. 20 minutes) or ceptions pursuant to s ulations for teaching-o g degree Sonderpäda g degree Mittelschule g degree Sonderpäda))	the written examination an oral examination Section 29 Subsecti degree programmes gogik Didactics in Mathe Didactics in Mathe	n in groups of 2 candidates (ap- on 4 LPO I (examination regulat) Nathematics (Middle School) matics (Middle School) (2015)

Mathe	e title				Abbreviation	
	matics	in German Mittelschule	- Application-oriented	d Teaching and Sto-	10-M-MM4-152-mo:	1
chastic						
Modul	e coord	inator		Module offered by		
Dean o	of Studi	es Mathematik (Mathem	natics)	Institute of Mathem	natics	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	undergraduate				
Conter	nts					
into ac		basic topics in teaching lidactic aspects as well				
Intend	ed lear	ning outcomes				
ment i	n teach	ted mathematics and sto ing mathematics, detect te countermeasures and	s common difficulties	and typical miscond	eptions of pupils an	nd knows
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
V (2) +	Ü (2)					
		sessment (type, scope, l ion on whether module o			tion offered — if not	every seme-
		of one candidate each (a tes per candidate).			tion may be replace in groups of 2 cand	
prox. 1 Langua ons for	5 minu age of a r teachi	tes per candidate). Issessment: German; ex ng-degree programmes)	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for	.5 minu age of a	tes per candidate). Issessment: German; ex ng-degree programmes)	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for	5 minu age of a r teachi	tes per candidate). Issessment: German; ex ng-degree programmes)	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat	5 minu age of a r teachi tion of	tes per candidate). Issessment: German; ex ng-degree programmes)	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat	5 minu age of a r teachi tion of onal inf	tes per candidate). Issessment: German; ex ng-degree programmes) p laces	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additic	5 minu age of a r teachi tion of onal inf	tes per candidate). Issessment: German; ex ng-degree programmes) p laces	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additic Worklo 150 h	5 minu age of a r teachi tion of onal inf	tes per candidate). Issessment: German; ex ng-degree programmes) places formation	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additic Worklo 150 h	5 minu age of a r teachi tion of onal inf	tes per candidate). Issessment: German; ex ng-degree programmes) places formation	pprox. 20 minutes) or	an oral examination	in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additio Worklo 150 h Teachi 	5 minu age of a r teachi tion of onal inf oad	tes per candidate). Issessment: German; ex ng-degree programmes) places formation	pprox. 20 minutes) or ceptions pursuant to S	an oral examination	n in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additio 150 h Teachi Referre	5 minu age of a r teachi tion of onal inf oad	tes per candidate). Issessment: German; ex ng-degree programmes) places formation	pprox. 20 minutes) or ceptions pursuant to S	an oral examination	n in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additio 150 h Teachi Referre § 38 N	5 minu age of a r teachi tion of onal inf oad ing cycl ed to in Nr. 1	tes per candidate). Issessment: German; ex ng-degree programmes) places formation e LPO I (examination reg	pprox. 20 minutes) or ceptions pursuant to S	an oral examination	n in groups of 2 cand	idates (ap-
prox. 1 Langua ons for Allocat Additio Teachi Referre § 38 1 Modulo	5 minu age of a r teachi tion of onal inf oad ing cycl ed to in Nr. 1 e appea	tes per candidate). Issessment: German; ex ng-degree programmes) places formation e LPO I (examination reg	pprox. 20 minutes) or ceptions pursuant to S ulations for teaching-o	an oral examination Section 29 Subsectio	n in groups of 2 cand	idates (ap- ion regulati-
prox. 1 Langua ons for Allocat Additio Worklo 150 h Teachi § 38 N Modulo First st (2015)	5 minu age of a r teachi tion of onal inf oad ang cycl ang cycl an	tes per candidate). Issessment: German; ex ng-degree programmes) places formation e LPO I (examination reg ars in mination for the teachin	pprox. 20 minutes) or ceptions pursuant to S ulations for teaching-o	an oral examination Section 29 Subsection degree programmes) gogik Didactics in M	a in groups of 2 cand on 4 LPO I (examination of the second secon	idates (ap- ion regulati-
prox. 1 Langua ons for Allocat Worklo 150 h Teachi § 38 I h Modulo First st (2015) First st (Prüfur First st (2020	5 minu age of a r teachi tion of onal inf oad ad ad ad ad ad ad ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa (Prüfun	tes per candidate). (ssessment: German; ex ng-degree programmes) places formation e LPO I (examination reg ars in mination for the teachin mination for the teachin	pprox. 20 minutes) or ceptions pursuant to S ulations for teaching-o g degree Sonderpäda g degree Mittelschule g degree Sonderpäda 5))	an oral examination Section 29 Subsection degree programmes) gogik Didactics in Mather Didactics in Mather	athematics (Middle Schoo natics (Middle Schoo	idates (ap- ion regulati-
prox. 1 Langua ons for Allocat Modditio Yorklo 150 h Teachi § 38 I N Modulo First st (2015) First st (Prüfur First st (2020	5 minu age of a r teachi tion of onal inf oad ad ad ad ad ad ad ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa (Prüfun	tes per candidate). Issessment: German; ex ng-degree programmes) places formation e LPO I (examination reg ars in mination for the teachin mination for the teachin	pprox. 20 minutes) or ceptions pursuant to S ulations for teaching-o g degree Sonderpäda g degree Mittelschule g degree Sonderpäda 5))	an oral examination Section 29 Subsection degree programmes) gogik Didactics in Mather Didactics in Mather	athematics (Middle Schoo natics (Middle Schoo	idates (ap- ion regulati-
prox. 1 Langua ons for Allocat Morkla 150 h Teachi § 38 I N Modula First st (2015) First st First st (Prüfur First st (Prüfur First st (2020 exchar	5 minu age of a r teachi tion of onal inf oad ang cycl add to in Nr. 1 e appea ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa	tes per candidate). (ssessment: German; ex ng-degree programmes) places formation e LPO I (examination reg ars in mination for the teachin mination for the teachin	pprox. 20 minutes) or ceptions pursuant to S ulations for teaching-o g degree Sonderpäda g degree Mittelschule g degree Sonderpäda 5)) 3)	an oral examination Section 29 Subsection degree programmes) gogik Didactics in Mather Didactics in Mather	athematics (Middle natics (Middle Schoo natics (Middle Schoo natics (Middle Schoo natics (Middle Schoo	idates (ap- ion regulati-

Modul					Abbreviation
Basics	in Arith	metics (virtual course)			10-M-VHBAri-152-m01
Modul	e coord	inator		Module offered by	
Dean c	of Studio	es Mathematik (Mathema	atics)	Institute of Mathem	atics
ECTS		od of grading	Only after succ. com		
2		successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme		undergraduate			
Conter	nts				
Basic t	topics o	n teaching arithmetics in	school, e. g. divisabi	lity theory, prime nu	imbers, set theory.
		ning outcomes			
			eaching of arithmetic	s and the related m	athematical backgrounds and
					hing arithmetic in school.
•		, number of weekly conta			
Ü (2)	e (type				,
• •	e type: e	Learning, mostly Virtuell	e Hochschule Bavern	(vhb)	
					tion offered — if not every seme
		on on whether module ca			
project	t (web-b	based, 15 to 20 hours)			
		ffered: Once a year, winte	er semester		
Allocat	tion of p	olaces			
Additid	onal inf	ormation			
Auunt					
Worklo	nad				
60 h	Jau				
	ng cycl	e			
		-			
Referre	ed to in	LPOI (examination regu	lations for teaching-d	egree programmes)	
	Nr. 1 h)				
-	Nr. 2 f)				
	Nr. 3 f)				
Modul	e appea	ars in			
First st	ate exa	mination for the teaching	degree Grundschule	Mathematics (2015)
First st	ate exa	mination for the teaching	degree Grundschule	Didactics in Mather	matics (Primary School) (2015)
First st	ate exa	mination for the teaching	degree Realschule N	lathematics (2015)	
		mination for the teaching		_	
First st (2015)		mination for the teaching	degree Sonderpädag	gogik Didactics in M	athematics (Primary School)
_	ate exa	mination for the teaching	degree Sonderpädag	gogik Didactics in M	athematics (Middle School)
-		mination for the teaching	degree Mittelschule	Mathematics (2015))
		-	-		natics (Middle School) (2015)
		mination for the teaching	-		
		mination for the teaching			



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

Module title Abbreviation						
		lgebra (virtual course)			10-M-VHBDA-152-m	01
Module coordinator				Module offered by		
Dean of Studies Mathematik (Mathematics) Insti				Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
2	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten						
			nd teaching algebra. Th number domains, vari			
Intende	ed learı	ning outcomes				
notions ment o justify able to tion. Th	s and m f under learning assess ney kno	ethods within a conce standing of the central g units and learning se and value the importa	e subject-specific conte ptual map. They know s concepts of algebra in quences for the import nce of digital technolo lication of algebraic co ently.	strategies of short, m teaching mathemati ant topics in school a gy with respect to too	iddle and long term cs. They are able to algebra independent days and future desi	develop- develop and ly. They are gn of instruc-
Course	s (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
Ü (2)			elle Hochschule Bayern		·	
Metho	d of ass	essment (type, scope,	language — if other tha can be chosen to earn	an German, examina	tion offered — if not	every seme-
		ased, 15 to 20 hours) ffered: Once a year, wi	nter semester			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
7144111						
Worklo	ad					
60 h						
Teachi	ng cycl	9				
Referre	d to in	LPOI (examination reg	gulations for teaching-o	degree programmes)		
§ 22 § 22		, § 22 Nr. 2 f)				
Module	e appea	rs in				
			ng degree Grundschule	Mathematics (2015))	
First sta First sta	ate exa ate exa	mination for the teachi mination for the teachi	ng degree Grundschule ng degree Realschule M	e Didactics in Mather Aathematics (2015)		ol) (2015)
			ng degree Gymnasium	-		
First sta (2015)	ate exa	mination for the teachi	ng degree Sonderpäda	gogik Didactics in Ma	athematics (Primary	School)
First sta	ate exa	mination for the teachi	ng degree Sonderpäda	gogik Didactics in Ma	athematics (Middle S	School)
(2015) First st		mination for the too 1.	na doaro - Mitt - I I-	Mathematics ()		
			ng degree Mittelschule ng degree Mittelschule)) (2015)
		actics in Mathematics (Middle		enerated 18-Apr-2025 • exam		page 20 / 35
School) (20				elschulen (Didaktikfach) Math	-	CC 1 0 0 0



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

mouul	e title				Abbreviation	
Didacti	ics of G	eometry (virtual course)		10-M-VHBDG-152-m	101
Module coordinator				Module offered by		
		es Mathematik (Mathem	natics)	Institute of Mathem	atics	
ECTS		d of grading	Only after succ. con			
2		uccessfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	undergraduate				
Conten	nts					
importa which a chapte	ant for a are usua ers on sp	ctics is about learning all of geometry and mat ally discussed only brie bace geometry, trigonor	hematics, namely prov fly or not at all in unive	ving and problem so ersity lectures and in	ving. It also address	ses topics
Intende	ed learr	ing outcomes				
ment o and jus They ar of instr (in the	of under stify lea re able t ruction. sense c	ethods within a concep standing of the central rning units and learning o assess and value the They know various field f modelling cycles) ind number of weekly cont	concepts of geometry g sequences for the im importance of digital ds of application of geo ependently.	in teaching mathema portant topics in sch technology with resp ometric concepts, an	atics. They are able t lool geometry indepo loct to todays and fu d are able to perform	o develop endently. iture design
Ü (2)	3 (type,	number of weekly com		n other than defina	11)	
• •	e type: e	Learning, mostly Virtue	lle Hochschule Bavern	(vhb)		
		essment (type, scope, l	· ·		tion offered — if not	every seme-
		on on whether module				,
		ased, 15 to 20 hours) fered: Once a year, sun	nmer semester			
	tion of p					
	<u></u>					
Additic	onal info	ormation				
Worklo	nad					
60 h	Juu		_			
	ing cycle		_			
reacini	ing cycle	2				
	od to in	IDOL (ovamination rog	ulations for toaching	۱		
Poforro		LEVE (CAAIIIIIduuii leg	manuus lui reactille.	100roo programmoo		
	-	· · · · · · · · · · · · · · · · · · ·		legree programmes)		
§ 22 § 22 § 22	Nr. 2 f)			legree programmes)		
§ 22 § 22 § 22 Module First sta First sta First sta First sta	Nr. 2 f) Nr. 3 f) e appea ate exan ate exan ate exan ate exan		ng degree Grundschule ng degree Grundschule ng degree Realschule M ng degree Gymnasium	e Mathematics (2015 e Didactics in Mather Mathematics (2015) Mathematics (2015)	natics (Primary Scho	-

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

Module	title				Abbreviation
		Didactics of Mathematic	s (virtual course)		10-M-VHBEx-152-m01
					10-10-101
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS		od of grading	Only after succ. con	pl. of module(s)	
2	(not) s	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
the Ers as basi	tes Sta c guide	atsexamen für Lehramt G lines for answering exan	iymnasium (first state	e examination for tea	g of theorems) in preparation for aching at a Gymnasium) as well state examination in Bavaria).
Intende	ed lear	ning outcomes			
The stu	dent le	arns about the structure	of the state exams a	nd different method	s for solving the exam problems.
Course	s (type	, number of weekly conta	ict hours, language —	- if other than Germa	an)
Ü (2) Course	type: e	Learning, mostly Virtuell	e Hochschule Bayern	(vhb)	
					ation offered — if not every seme-
		on on whether module ca based, 15 to 20 hours)	an be chosen to earn	a bonus)	
		ffered: Once a year, wint	er semester		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e	<u>.</u>		
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
§ 22 § 22 § 22	Nr. 2 f)				
Module	e appea	in in			
		mination for the teaching	g degree Grundschule	Mathematics (2015)
		-	-		matics (Primary School) (2015)
		mination for the teaching			
		mination for the teaching			
First sta (2015)	ate exa	mination for the teaching	s degree Sonderpada	gogik didactics in M	athematics (Primary School)
First sta (2015)	ate exa	mination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Middle School)
First sta		mination for the teaching			
					matics (Middle School) (2015) 9 (Prüfungsordnungsversion

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

Module ti	le			Abbreviation
Basics in S	School Geometry (virtual co	ourse)		10-M-VHBGeo-152-mo1
Module co	ordinator		Module offered by	
Dean of St	udies Mathematik (Mathem	natics)	Institute of Mathem	natics
ECTS M	ethod of grading	Only after succ. com	pl. of module(s)	
	ot) successfully completed			
Duration	Module level	Other prerequisites		
1 semeste	r undergraduate			
Contents		-		
				nat are prerequisites for the sub Hauptschule, Realschule) in gec
Intended	earning outcomes			
	nt has basic knowledge of s e is acquainted with the en	-	. ,	of mathematics and its didac- g geometry in school.
Courses (t	ype, number of weekly cont	tact hours, language —	if other than Germa	in)
Ü (2) Course typ	e: eLearning, mostly Virtue	lle Hochschule Bayern	(vhb)	
	assessment (type, scope, nation on whether module			tion offered — if not every seme
	eb-based, 15 to 20 hours) nt offered: Once a year, sun	nmer semester		
Allocation	of places			
Additiona	information			
Workload				
60 h				
Teaching	rucio			
reaching	yute			
 Doformed f		ulations for to a bir and		
	b in LPO I (examination reg	utations for teaching-c	legree programmes)	
§ 22 Nr. § 22 Nr.	-			
§ 22 II NI. § 22 II Nr.				
Module a				
	examination for the teachir	ng degree Grundschule	Mathematics (2015)
			-	natics (Primary School) (2015)
	examination for the teachir			. , , , ,
	examination for the teachir		-	
First state (2015)	examination for the teachir	ng degree Sonderpäda	gogik Didactics in M	athematics (Primary School)
(2015)				athematics (Middle School)
First state	examination for the teachir	ng degree Mittelschule	Mathematics (2015)	
First state		ng degree Mittelschule	Didactics in Mather	natics (Middle School) (2015)

LA Mittelschulen Didactics in Mathematics (Middle	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 26 / 35
School) (2015)	cord Lehramt Mittelschulen (Didaktikfach) Mathematik - 2015	

UNIVERSITÄT WÜRZBURG

Subdivided Module Catalogue for the Subject Didactics in Mathematics (Middle School) LA Mittelschulen

First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

Modul	e title			Abbreviation	
Mathe	matics in grade 10 (virtual cour	rse)		10-M-VHBM10-152-	m01
Modul	e coordinator		Module offered by		
	of Studies Mathematik (Mathem	natics)	Institute of Mathem	atics	
ECTS	Method of grading	Only after succ. con		latics	
2	(not) successfully completed				
_ Duratio		Other prerequisites			
1 seme					
Conter					
	copics on teaching mathematics	in tonth grado in Hau	ntschulo Boalschul	and Cympacium	
	ed learning outcomes		pischule, Redischul	e and Gymnasium.	
				• • • • • • • •	
	udent learns basic topics in the , as well as the related mathem				
	technologies for teaching mat				employmen
	es (type, number of weekly cont			n)	
	a (type, number of weekly coll			11)	
Ü (2) Course	e type: eLearning, mostly Virtue	lle Hochschule Bavern	(vhb)		
	d of assessment (type, scope, l			tion offered if not	avon como
	formation on whether module			tion onered — If not	every serile-
-	t (web-based, 15 to 20 hours)				
	sment offered: Once a year, sun	nmer semester			
	tion of places				
Alloca					
		_			
Additio	onal information				
Worklo	bad	_			
60 h		_			
Teachi	ng cycle				
		_			
Referre	ed to in LPO I (examination reg	ulations for teaching-o	legree programmes)		
§ 22	Nr. 1 h)				
-	Nr. 2 f)				
§ 22	Nr. 3 f)				
Modul	e appears in				
First st	ate examination for the teachir	ig degree Grundschule	Mathematics (2015)	
First st	ate examination for the teachir	ig degree Grundschule	Didactics in Mather	natics (Primary Scho	ool) (2015)
	ate examination for the teachir		_		
	ate examination for the teachir		_		
	ate examination for the teachir	ig degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
(2015) First st	ato oxamination for the teaching	a doaroo Condornado	angik Didactics in M	athomatics (Middle	School
FIrst st (2015)	ate examination for the teachir	is degree Sonderpada	Sogik Didactics in M	amematics (Middle	501000
-	ate examination for the teachir	ig degree Mittelschule	Mathematics (2015)	1	
	ate examination for the teachir				ol) (2015)
	ate examination for the teachir				, , , , , , , , , , , , , , , , , , ,
	ate examination for the teachir		-	(Prüfungsordnungs	version
2015))				_ 0	
A Mittala	chulen Didactics in Mathematics (Middle	IMII Würzburg • g	enerated 18-Apr-2025 • exam	reg data re-	page 28 / 35
	anaten Didaeties in Mathematics (Miluule	cord Lehramt Mitte	examination in the second seco	. 105. uutu 10-	puge 20 / 35



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

Module title	e			Abbreviation	
Mathemati	cs 1 (virtual course)			10-M-VHBMa1-152-	m01
Module cod	ordinator		Module offered by	<u> </u>	
	dies Mathematik (Mathem	atics)	Institute of Mathem	atics	
	thod of grading	Only after succ. com			
	t) successfully completed				
Duration	Module level	Other prerequisites			
1 semester	undergraduate				
Contents		1			
Discussion	of basic topics on teaching als concerning the organisa		mnasium, in particu	lar verbal and subje	ct-specific
	arning outcomes				
The studen	t is able to discuss selected both subject-related and r		s on teaching mathe	matics at German G	ymnasium,
Courses (ty	pe, number of weekly conta	act hours, language –	if other than Germa	n)	
Ü (2)	e: eLearning, mostly Virtuel				
ster, inform	assessment (type, scope, la ation on whether module c			tion offered — if not	every seme-
	b-based, 15 to 20 hours) t offered: Every two years, v	winter semester			
Allocation of	of places				
Additional	information				
Workload					
60 h					
Teaching cy	<i>i</i> cle				
reaching e					
	in LPO I (examination regu	liations for teaching-c	legree programmes)		
§ 22 Nr. 1 § 22 Nr. 2 § 22 Nr. 3	f)				
Module app	pears in				
First state e	xamination for the teaching xamination for the teaching				ool) (2015)
	xamination for the teaching				
First state e	xamination for the teaching	g degree Gymnasium	Mathematics (2015)		
(2015)	xamination for the teaching				
(2015)	xamination for the teaching xamination for the teaching				School)
	xamination for the teaching) (201E)
	xamination for the teaching				59 (2015)
	xamination for the teaching	,	-		version
A Mittelschulen School) (2015)	Didactics in Mathematics (Middle		enerated 18-Apr-2025 • exam Ischulen (Didaktikfach) Math	-	page 30 / 35



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

Module	title			Abbreviation	
Mather	matics 2 (virtual course)			10-M-VHBMa2-152-	m01
Module coordinator			Module offered by		
Dean of	f Studies Mathematik (Mathema	atics)	Institute of Mathem	natics	
ECTS	Method of grading	Only after succ. com			
2	(not) successfully completed				
Duratio	on Module level	Other prerequisites			
1 seme					
Conten		I			
	sion of central topics on teachin of implementation in the classr		ymnasium, in partic	ular didactic analys	es and possi
Intende	ed learning outcomes				
The stu	dent is able to discuss and ana sium from a didactical point of v		nd questions on tea	aching mathematics	at German
Course	s (type, number of weekly conta	ct hours, language —	if other than Germa	ın)	
Ü (2)	type: eLearning, mostly Virtuell			,	
	d of assessment (type, scope, la formation on whether module c			tion offered — if not	every seme-
	(web-based, 15 to 20 hours) ment offered: Every two years, s	ummer semester			
Allocat	ion of places				
Additio	onal information				
Worklo	ad				
60 h					
Teachir	ng cycle				
Doforro	d to in LPO I (examination regu	lations for toaching a	logroo programmoc)		
			legiee programmes)		
§ 22 § 22 § 22	Nr. 2 f)				
	e appears in				
	ate examination for the teaching	g degree Grundschule	Mathematics (2015)	
	ate examination for the teaching				ool) (2015)
	ate examination for the teaching			,	
First sta	ate examination for the teaching	g degree Gymnasium	Mathematics (2015)		
(2015)	ate examination for the teaching				
(2015)	ate examination for the teaching ate examination for the teaching				School)
	ate examination for the teaching				nl) (2015)
	ate examination for the teaching				017 (2015)
	ate examination for the teaching		-		version
LA Mittelscl School) (20	hulen Didactics in Mathematics (Middle		enerated 18-Apr-2025 • exam lschulen (Didaktikfach) Matł	-	page 32 / 35



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)

Module	e title			Abbreviation	
Stocha	stics in Sekundarstufe I (virtual	course)		10-M-VHBSto-152-n	101
Module	e coordinator		Module offered by		
	f Studies Mathematik (Mathema	atics)	Institute of Mathem	atics	
ECTS	Method of grading	Only after succ. com		laties	
2	(not) successfully completed				
Duratio		Other prerequisites			
1 seme					
Conten		<u> </u>			
	on and consolidation of the fund	amontal topics in sto	chactics that are pro	requisites for the su	ubiact spaci
	didactic courses in stochastics.		chastics that are pre	elequisites for the st	inlect-shect-
	ed learning outcomes				
	Ident has basic knowledge of st	ochastics as require	d for the study of ma	thomatics and its di	dac
	/She is acquainted with the em	· · ·	,		
	s (type, number of weekly conta		-	-	
	a (type, number of weekly colld	ier nours, language –		11)	
Ü (2) Course	type: eLearning, mostly Virtuell	e Hochschule Bavern	(vhb)		
	d of assessment (type, scope, la			tion offered if not	overveene
	formation on whether module ca				every serile
-	(web-based, 15 to 20 hours)				
	ment offered: Once a year, wint	er semester			
	ion of places				
Allocal					
Additio	onal information				
Worklo	ad				
60 h					
Teachir	ng cycle				
Referre	ed to in LPO I (examination regu	lations for teaching-c	legree programmes)		
§ 22		0			
§ 22	-				
§ 22					
Module	e appears in				
First sta	ate examination for the teaching	g degree Grundschule	Mathematics (2015)	
	ate examination for the teaching				ool) (2015)
First sta	ate examination for the teaching	g degree Realschule N	Aathematics (2015)		
First sta	ate examination for the teaching	g degree Gymnasium	Mathematics (2015)		
First sta	ate examination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
(2015)					
	ate examination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
(2015) First st	the superior that the state of the		Mathewsetter		
	ate examination for the teaching				ab) (a - i)
	ate examination for the teaching				UI) (2015)
	ate examination for the teaching				vorcion
2015))	ate examination for the teaching	s degree milleischule	mainematics (2020	(Fiulungsolunungs)	ve151011
	hulen Didactics in Mathematics (Middle		enerated 18-Apr-2025 • exam	-	page 34 / 35
chool) (20)15)	cord Lehramt Mitte	lschulen (Didaktikfach) Math	iematik - 2015	



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)