

Subdivided Module Catalogue for the Subject

Didactics in Mathematics (Middle School)

as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt für Sonderpädagogik"

> 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
cus on teaching methodolo	CTS credits) nodules worth 20 ECTS credits in each subject selected as Didakt gy) is a prerequisite for admission to the Erste Staatsprüfung (Fir rgruppe der Mittelschule (Didactics of a Group of Subjects of Mit	st State Ex	amination) in t	ith a fo- he sub-
10-M-MM1-152-m01	Mathematics in German Mittelschule - Arithmetics	5	NUM	13
10-M-MM2-152-m01	Mathematics in German Mittelschule - Algebra	5	NUM	14
10-M-MM3-152-m01	Mathematics in German Mittelschule - Geometry	5	NUM	15
10-M-MM4-152-m01	Mathematics in German Mittelschule - Application-oriented Te- aching and Stochastics	5	NUM	16
Teaching degree students m ject-specific electives) (Secti To achieve the required num Freier Bereich interdiscipli	ell as subject-specific electives) ust take modules worth a total of 15 ECTS credits in the area Freie on 9 LASPO (general academic and examination regulations for t ber of ECTS credits, students may take any modules from the are nary: The interdisciplinary additional offer for a teaching degree o gen für den "Freien Bereich" im Rahmen des Studiums für ein Le	eaching-de as below. can be four	egree programi	nes)).
	ematics at the German Mittelschule			
(Freier Bereich (general as	well as subject-specific electives) subject specific)		1	1
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	17
10-M-VHBGe0-152-m01	Basics in School Geometry (virtual course)	2	B/NB	25
10-M-VHBSto-152-m01	Stochastics in Sekundarstufe I (virtual course)	2	B/NB	33
10-M-VHBM10-152-m01	Mathematics in grade 10 (virtual course)	2	B/NB	27
10-M-VHBDG-152-m01	Didactics of Geometry (virtual course)	2	B/NB	21
10-M-VHBDA-152-m01	Didactics of Algebra (virtual course)	2	B/NB	19
10-M-VHBEx-152-m01	Exam Tutorial Didactics of Mathematics (virtual course)	2	B/NB	23
10-M-VHBMa1-152-m01	Mathematics 1 (virtual course)	2	B/NB	29
10-M-VHBMa2-152-m01	Mathematics 2 (virtual course)	2	B/NB	31
10-M-DCMU-152-m01	Computers in Mathematical Teaching	3	B/NB	4
10-M-DGMS-152-m01	Didactics of Elementary School Mathematics for Teachers at German Mittelschule and Special Education	2	B/NB	6
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

Paper (10 ECTS credits)

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Mittelschule may write this thesis in the subject Didaktik einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule), in the subject they selected as Unterrichtsfach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.

Module	e title			Abbreviation		
Compu	iters in Mathematical Teachin	g		10-M-DCMU-152-m	01	
Module	e coordinator		Module offered by			
Dean o	of Studies Mathematik (Mathe	matics)	Institute of Mathem	atics		
ECTS	Method of grading		Only after succ. compl. of module(s)			
3						
Duratio	on Module level	Other prerequisites				
1 seme	ester undergraduate					
Conten	its					
Discus puter t	sion of possible ways to use c	omputers in teaching r	nathematics as well	as discussion of con	nmon com-	
•	ed learning outcomes					
	Ident is acquainted with basic	nossibilities for the er	nployment of compu	ters in the teaching	of mathema.	
	well as with the potential and					
Course	s (type, number of weekly cor	itact hours, language –	- if other than Germa	n)		
V (2)						
	d of assessment (type, scope, formation on whether module			tion offered — if not	every seme-	
	t (10 to 15 pages)					
	ment offered: Every two years	, winter semester				
Allocat	tion of places					
Additio	onal information					
Worklo	ad					
90 h						
Teachi	ng cycle					
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)			
§ 22						
§ 22 § 22	Nr. 1 h)					
	e appears in ate examination for the teachi	ng dogroo Poolschulo I	Mathematics (2015)			
1	ate examination for the teachi					
	ate examination for the teachi	,		athematics (Middle	School)	
(2015)					·	
	ate examination for the teachi					
	ate examination for the teaching			natics (Middle Schoo	ol) (2015)	
1	ate examination for the teachi ate examination for the teachi		-	(Prüfungsordnungs	version	
2015))						
	ate examination for the teachi ngsordnungsversion 2015))	ng degree Mittelschule	Didactics in Mathen	natics (Middle Schoo	ol) (2020	
	ate examination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)	
	(Prüfungsordnungsversion 20			、 · · · · ·	,	
exchar	nge program Mathematics (202	23)				
	pädagogik Didactics in Mathematics hool) (2015)		ated 18-Apr-2025 • exam. reg (Mittelschule-Didaktikfach) A		page 4 / 34	



Module	e title				Abbreviation	
Didacti	cs of E	lementary School Mathe	matics for Teachers a	t German Mittel-	10-M-DGMS-152-m01	
		ecial Education			_	
Module coordinator				Module offered by	Nodule offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	natics	
ECTS		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					
Discus	sion of	selected methods for tea	ching mathematics in	n Mittelschule.		
Intende	ed lear	ning outcomes				
their re	spectiv				erman Mittelschule, can assess appropiate method depending or	
Course	s (type	, number of weekly conta	ict hours, language —	if other than Germa	an)	
S (2)						
		essment (type, scope, la on on whether module c			ation offered — if not every seme-	
b) term c) proje	paper ect (10 f	k. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, v	vinter semester			
Allocat		· · · ·				
Additio	nal inf	ormation				
Additio						
Worklo						
	au					
60 h						
Teachiı	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
§ 22 § 22						
Module	e appea	ars in				
First sta (2015) First sta	ate exa ate exa	mination for the teaching	g degree Sonderpädag g degree Mittelschule	gogik Didactics in M Mathematics (2015)		
First sta 2015))	ate exa	mination for the teaching	g degree Mittelschule	Mathematics (2020	natics (Middle School) (2015) (Prüfungsordnungsversion	
(Prüfun First sta	gsordn ate exa	ungsversion 2015))	g degree Sonderpäda		natics (Middle School) (2020 Iathematics (Middle School)	
		gram Mathematics (2023				

Module	title				Abbreviation
		of Teaching in Mathema	tics 1 (German Mittel	schule)	10-M-DMMS1-152-m01
Module coordinator				Module offered by	<u> </u>
Dean o	f Studie	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Discus	sion of	selected methods for tea	ching mathematics i	n Mittelschule.	
Intende	ed learr	ning outcomes			
their re the situ	spectiv ation a		vantages, and can se	lect and employ an	erman Mittelschule, can assess appropiate method depending on
S (2)					,
	d of ass	essment (type, scope, la	nguage — if other tha	an German. examina	ation offered — if not every seme-
		on on whether module ca			·····, ····
b) term c) proje Assess	paper ect (10 t ment o	x. 45 minutes) or (5 to 10 pages) or o 15 pages) ffered: Every two years, v	vinter semester		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes))
§ 22	Nr. 1 h)				
Module	e appea	rs in			
(2015)					lathematics (Middle School)
First sta	ate exa		g degree Mittelschule	Didactics in Mather) matics (Middle School) (2015) o (Prüfungsordnungsversion
(Prüfun	gsordn	ungsversion 2015))			matics (Middle School) (2020 Iathematics (Middle School)
(2020 (Prüfun	gsordnungsversion 2015) gram Mathematics (2023)))		

Module	title				Abbreviation
Methodology of Teaching in Mathematics 2 (German Mittelschule) 10				10-M-DMMS2-152-mo1	
Module coordinator				Module offered by	
Dean of	fStudie	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Discuss	sion of	selected methods for tea	ching mathematics in	n Mittelschule.	
Intende	ed learr	ning outcomes			
their reative the situ	spectiv ation a		vantages, and can se	lect and employ an	erman Mittelschule, can assess appropiate method depending on
S (2)	- (type,	maniber of weekly collid	et nours, language –		A11 <i>)</i>
	loface	accment (type, scope, la	nguago — if other the	n Corman ovamina	ation offered — if not every seme-
		on on whether module ca			ation offered — if not every senie-
b) term c) proje	paper ect (10 t	x. 45 minutes) or (5 to 10 pages) or o 15 pages) ffered: Every two years, s	ummer semester		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
90 h					
Teachir	ng cycle	e			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
§ 22					
Module		rs in			
First sta (2015)	ate exa	mination for the teaching			athematics (Middle School)
First sta	ate exa		degree Mittelschule	Didactics in Mather) matics (Middle School) (2015) 9 (Prüfungsordnungsversion
(Prüfun	gsordn	ungsversion 2015))			natics (Middle School) (2020 athematics (Middle School)
(2020 (Prüfun	gsordnungsversion 2015) gram Mathematics (2023))		

Modul				Abbreviation	
E-Learn	ning and Blended Learning in I	Mathematical Teaching	g (virtual Course)	10-M-DVHB-152-mo	1
Module coordinator			Module offered by	<u> </u>	
Dean of Studies Mathematik (Mathematics)		natics)	Institute of Mathem	natics	
ECTS	Method of grading	Only after succ. compl. of module(s)			
3	(not) successfully completed		1 ()		
Duratio	on Module level	Other prerequisites			
1 seme	· · · ·				
Conten					
	urse offered by Virtuelle Hochs ques in e-learning and blended			acquainted with and	reflects on
	ed learning outcomes				
The stu	Ident is acquainted with basic their potentials and limitation		and blended learnin	ng in teaching methe	matics, as
	s (type, number of weekly con		if other than Germa	an)	
Ü (2)				,	
• •	type: eLearning, mostly Virtue	elle Hochschule Bavern	(vhb)		
Metho	d of assessment (type, scope, formation on whether module	language — if other tha	an German, examina	ation offered — if not	every seme
	t (web-based, 15 to 20 hours) sment offered: Once a year, wir	nter semester			
Allocat	tion of places				
∆dditic	onal information				
naunne					
Worklo	oad				
90 h					
-	ng cycle				
	ing cycle				
	ed to in LPO I (examination reg	gulations for teaching-c	legree programmes)		
§ 22 § 22 § 22	-				
	e appears in				
	ate examination for the teaching	ng degree Grundschule	Mathematics (2015)	
	ate examination for the teachi				ool) (2015)
First st	ate examination for the teachi	ng degree Realschule N	Aathematics (2015)	-	-
First st	ate examination for the teachi	ng degree Gymnasium	Mathematics (2015)		
	ate examination for the teaching	ng degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
	ate examination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
(2015) First st	ate examination for the teaching	ng degree Mittelschule	Mathematics (2015))	
1113131	ate examination for the teaching				ol) (2015)
First st					
	ate examination for the feaching				
First st First st	ate examination for the teaching ate examination for the teaching ate examination for the teaching at the teac	,	-		version
First st First st 2015))		ng degree Mittelschule	-) (Prüfungsordnungs	version

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	title				Abbreviation
		actics of Mathematics 1 (German Mittelschule	2)	10-M-DVMS1-152-m01
					10-10-0 1101-152-1101
Module coordinator				Module offered by	
		es Mathematik (Mathema		Institute of Mathem	natics
ECTS	<u> </u>	od of grading	Only after succ. com	pl. of module(s)	
2	<u> </u>	successfully completed			
Duratio		Module level undergraduate	Other prerequisites		
		undergraduate			
Conten					
lar mat	hemati		analyses, contempo		nt different aspects, in particu- mathematics didactics as well as
Intende	ed leari	ning outcomes			
		able to discuss central 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)			-		
		essment (type, scope, la on on whether module ca			ation offered — if not every seme-
Assess Allocat		ffered: Every two years, v places	vinter semester		
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	٩			
	15 cycl	•			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
§ 22					
Module		irs in			
			g degree Sonderpäda	gogik Didactics in M	lathematics (Middle School)
First sta First sta First sta	ate exa	-	g degree Mittelschule	Didactics in Mather) matics (Middle School) (2015) o (Prüfungsordnungsversion
(Prüfun	igsordn	ungsversion 2015))			matics (Middle School) (2020
(2020 (Prüfun	mination for the teaching gsordnungsversion 2015 gram Mathematics (2023))	gogik Didactics in M	lathematics (Middle School)

Module	titla				Abbreviation
		actics of Mathematics 2	(German Mittelschule	e)	10-M-DVMS2-152-mo1
					10-10-101
Module coordinator				Module offered by	
		es Mathematik (Mathema		Institute of Mathen	natics
ECTS	2	od of grading	Only after succ. com	pl. of module(s)	
2		successfully completed			
Duratio		Module level undergraduate	Other prerequisites		
		undergraduate			
Conten					
lar mat	hemati		analyses, contempo		nt different aspects, in particu- mathematics didactics as well as
	<u> </u>	ning outcomes			
The stu	dent is			eaching mathemati	cs in German Mittelschule, consi-
		, number of weekly conta	· · · · ·	if other than Germa	an)
S (2)		,			
Metho		s essment (type, scope, la on on whether module ca			ation offered — if not every seme-
Assess Allocat		ffered: Every two years, s blaces	ummer semester		
Additio	nalinf	ormation			
Additio	ilat illi				
 Worklo					
	ad				
60 h					
Teachi	ng cycl	8			
		LPOI (examination regu	lations for teaching-c	legree programmes)
§ 22					
Module					
First sta (2015)	ate exa	mination for the teaching	g degree Sonderpäda	gogik Didactics in M	lathematics (Middle School)
	ate exa	mination for the teaching	g degree Mittelschule	Mathematics (2015)
					, matics (Middle School) (2015)
1		-	-) (Prüfungsordnungsversion
		mination for the teaching ungsversion 2015))	g degree Mittelschule	Didactics in Mather	matics (Middle School) (2020
(2020 ((Prüfun	mination for the teaching gsordnungsversion 2015 gram Mathematics (2023))	gogik Didactics in M	lathematics (Middle School)
CACHAII	SC PIU)		

woaule	e title				Abbreviation
Mathematics in German Mittelschule - Arithmetics			- Arithmetics		10-M-MM1-152-m01
Module coordinator			Module offered by	· · · · · · · · · · · · · · · · · · ·	
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mather	natics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	;	
ı seme	ster	undergraduate			
Conten	Its				
		basic topics in teaching f implementation in the			count didactic aspects as well a plogies.
		ning outcomes			5
ects co suppor	ommon t. He/S		nisconceptions of pu learning strategies an	pils and knows abo id can assess them.	
V (2) +		,,,,,,			,
					ation offered — if not every seme
ster, in written If anno examir prox. 1 Langua ons for	formati examin unced nation c 5 minut age of a	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes)	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for	formati examin unced nation c 5 minut age of a teachi	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes)	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral
ster, in written If anno examir prox. 1 Langua ons for Allocat	formati examin unced nation c 5 minut age of a teachi ion of p	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes)	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat	formati examin unced nation c 5 minut age of a teachi ion of p	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes) blaces	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 19 Langua ons for Allocat 	formati examin unced nation c 5 minut age of a teachi ion of p onal inf	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes) blaces	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 19 Langua ons for Allocat Additio Worklo	formati examin unced nation c 5 minut age of a teachi ion of p onal inf	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes) blaces	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 19 Langua ons for Allocat Additic Worklo 150 h	formati examin unced nation c 5 minut age of a teachi ion of p onal inf	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approxection) res per candidate). ssessment: German; exc ng-degree programmes) places	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 19 Langua ons for Allocat Additic Worklo 150 h	formati examin unced nation c 5 minut age of a teachi ion of p onal inf	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approxection) res per candidate). ssessment: German; exc ng-degree programmes) places	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or	a bonus) the written examina an oral examinatio	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic Teachin 	formati examin unced aation c 5 minut age of a teachi ion of p onal info pad	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approxection) res per candidate). ssessment: German; exc ng-degree programmes) places	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or ceptions pursuant to S	a bonus) the written examinatio an oral examinatio Section 29 Subsecti	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
ster, in written If anno examir prox. 19 Langua ons for Allocat Additio Worklo 150 h Teachi Referre	formati examin unced nation c 5 minut age of a teachi ion of p onal inf pad	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approxection) is sessment: German; exc ng-degree programmes) olaces	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or ceptions pursuant to S	a bonus) the written examinatio an oral examinatio Section 29 Subsecti	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
ster, in written If anno examir prox. 19 Langua ons for Allocat Additic Teachi Referre § 38 I N	formati examin unced bation c 5 minut age of a teachi ion of p onal info pad ng cycl ed to in	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approximation) ssessment: German; exc ng-degree programmes) olaces ormation	an be chosen to earn minutes) ginning of the course, pprox. 20 minutes) or ceptions pursuant to S	a bonus) the written examinatio an oral examinatio Section 29 Subsecti	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati
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Modul	e title				Abbreviation
Mathematics in German Mittelschule - Algebra			Algebra		10-M-MM2-152-m01
Modul	e coord	inator		Module offered by	
Dean o	of Studi	es Mathematik (Mathema	atics)	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				
		basic topics in teaching f implementation in the o			nt didactic aspects as well as logies.
Intend	ed lear	ning outcomes			
ties an knows	d typica teachir		ils and knows about s and can assess the	adequate counterm m.	natics, detects common difficul- easures and support. He/She
V (2) +		, number of weekly conta			
written If anno examir prox. 1 Langua ons for	examin ounced nation c 5 minut age of a r teachi	of one candidate each (ar tes per candidate). ssessment: German; exc ng-degree programmes)	minutes) inning of the course, oprox. 20 minutes) or	the written examina an oral examinatior	ition may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati-
Allocat	tion of _l	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)	
§ 38 I	Nr. 1				
-	e appea	ars in			
First st (2015)		mination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Middle School)

mouul	e title				Abbreviation
Mathematics in German Mittelschule - Geometry			Geometry		10-M-MM3-152-m01
Module coordinator			Module offered by	•	
Dean o	fStudie	es Mathematik (Mathema	atics)	Institute of Mather	natics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
ı seme	ster	undergraduate			
Conten	Its				
		basic topics in teaching f implementation in the			ount didactic aspects as well as plogies.
ntend	ed learı	ning outcomes			
commo port. H	on diffic e/She l		nceptions of pupils a ning strategies and ca	nd knows about ade an assess them.	eaching mathematics, detects equate countermeasures and sup an)
V (2) +	Ü (2)				
					ation offered — if not every seme
ster, in written If anno examir prox. 1 Langua	formati examin unced nation o 5 minut age of a	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg if one candidate each (ap es per candidate).	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation offered — if not every seme ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati-
ster, in written If anno examir prox. 1 Langua ons for	formati examin unced nation o 5 minut age of a	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes)	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for	formati examin unced nation o 5 minut age of a teachin	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes)	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
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ster, in written If anno examir prox. 1 Langua ons for Allocat	formati examin unced nation o 5 minut age of a teachin ion of p	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes) blaces	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic	formati examin unced nation o 5 minut age of a teachin ion of p onal info	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes) blaces	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic	formati examin unced nation o 5 minut age of a teachin ion of p onal info	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap es per candidate). ssessment: German; exc ng-degree programmes) blaces	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic Worklo 150 h	formati examin unced nation o 5 minut age of a teachin ion of p onal info	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap res per candidate). ssessment: German; exc ng-degree programmes) places	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic Worklo 150 h	formati examin unced bation o 5 minut age of a teachin ion of p onal info	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap res per candidate). ssessment: German; exc ng-degree programmes) places	an be chosen to earn minutes) sinning of the course, oprox. 20 minutes) or	a bonus) the written examina an oral examination	ation may be replaced by an oral n in groups of 2 candidates (ap-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic Teachi 	formati examin unced bation o 5 minut age of a teachin ion of p onal info	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (ap res per candidate). ssessment: German; exc ng-degree programmes) places	an be chosen to earn minutes) ginning of the course, oprox. 20 minutes) or ceptions pursuant to 9	a bonus) the written examination an oral examination Section 29 Subsecti	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati-
ster, in written If anno examir prox. 1 Langua ons for Allocat Additic Worklo 150 h Teachi Referre	formati examin unced l nation o 5 minut age of a teachin ion of p onal info pad	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approximate each) res per candidate). ssessment: German; exc ng-degree programmes) olaces	an be chosen to earn minutes) ginning of the course, oprox. 20 minutes) or ceptions pursuant to 9	a bonus) the written examination an oral examination Section 29 Subsecti	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati-
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ster, in written If anno examir prox. 1 Langua ons for Allocat Additic Worklo 150 h Teachi S 38 I N Modulo First st (2015) First st First st (Prüfur	formati examin unced la ation of 5 minut age of a teachin ion of p onal info onal info ad ad at e exa ate exa ate exa ate exa ate exa	on on whether module c nation (approx. 60 to 90 by the lecturer at the beg of one candidate each (approximation) ssessment: German; exc ng-degree programmes) places ormation e LPO I (examination regularies) mination for the teaching mination for the teaching	an be chosen to earn minutes) ginning of the course, oprox. 20 minutes) or ceptions pursuant to S ceptions for teaching- dilations for teaching- g degree Sonderpäda g degree Mittelschule g degree Mittelschule	a bonus) the written examination an oral examination Section 29 Subsection degree programmes gogik Didactics in Mather Didactics in Mather Didactics in Mather	ation may be replaced by an oral n in groups of 2 candidates (ap- on 4 LPO I (examination regulati

Module	e title				Abbreviation	
Mather	natics	n German Mittelschul	e - Application-oriented	I Teaching and Sto-	10-M-MM4-152-mo1	
chastic	S					-
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 semes	ster	undergraduate				
Conten	ts					
	count d		g stochastics and appli as possibilities of imp			
Intende	ed learı	ning outcomes				
lication ment in	n-orient n teachi	ed mathematics and st ng mathematics, detec	mathematical ways of tochastics. He/She kno ots common difficulties ad support. He/She kno	ws about criteria to and typical miscond	assess media and th ceptions of pupils an	eir employ- d knows
Course	s (type	number of weekly con	tact hours, language —	if other than Germa	in)	
V (2) + l	Ü (2)					
ster, inf	formati		language — if other tha can be chosen to earn		tion offered — if not	every seme-
Langua ons for	ge of a teachi	ng-degree programmes	xceptions pursuant to S	Section 29 Subsectio	on 4 LPO I (examinati	on regulati-
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	9				
Referre	d to in	LPOI (examination reg	gulations for teaching-o	legree programmes)		
§381N	lr. 1					
Module	e appea	rs in				
First sta (2015)	ate exa	mination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
First sta	ate exa Igsordn		ng degree Mittelschule ng degree Mittelschule			n < n
		mination for the teachi	ng degree Sondernäda	gogik Didactics in M	athematics (Middle	ol) (2020
First sta (2020 (Prüfun	mination for the teachi gsordnungsversion 20: gram Mathematics (202	-	gogik Didactics in M	athematics (Middle	ol) (2020

Module title Abbreviation Basics in Arithmetics (virtual course) 10-M-VHBAri-152-mo1 Module coordinator Module offered by Dean of Studies Mathematik (Mathematics) Institute of Mathematics ECTS Method of grading Only after succ. compl. of module(s) 2 (not) successfully completed Duration Module level Other prerequisites 1 semester undergraduate Contents Basic topics on teaching arithmetics in school, e. g. divisability theory, prime numbers, set theory. Intended learning outcomes The student learns basic topics in the teaching of arithmetics and the related mathematical backgrounds an proofs. He/She is acquainted with the employment of new technologies for teaching arithmetic in school. Courses (type, number of weekly contact hours, language — if other than German) () () () Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) Method of assessment (type, scope, language — if other than German, examination offered — if not every setser, information on whether module can be chosen to earn a bonus) project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester Allocation of places Workload 60 h <	
Module coordinator Module offered by Dean of Studies Mathematik (Mathematics) Institute of Mathematics ECTS Method of grading Only after succ. compl. of module(s) 2 (not) successfully completed Duration Module level Other prerequisites 1 semester undergraduate Contents Easies topics on teaching arithmetics in school, e. g. divisability theory, prime numbers, set theory. Intended learning outcomes The student learns basic topics in the teaching of arithmetics and the related mathematical backgrounds an proofs. He/She is acquainted with the employment of new technologies for teaching arithmetic in school. Courses (type, number of weekly contact hours, language — if other than German) Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) Method of assessment (type, scope, language — if other than German, examination offered — if not every se ster, information on whether module can be chosen to earn a bonus) project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester Allocation of places Workload 60 h	
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Allocation of places Additional information Workload 60 h	
Additional information Workload 60 h	
 Workload 60 h	
 Workload 60 h	
60 h	
60 h	
Teaching cycle	
Referred to in LPO I (examination regulations for teaching-degree programmes)	
§ 22 Nr. 1 h) § 22 Nr. 2 f)	
§ 22 II Nr. 3 f)	
Module appears in	
First state examination for the teaching degree Grundschule Mathematics (2015)	
First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (201	5)
First state examination for the teaching degree Realschule Mathematics (2015)	
First state examination for the teaching degree Gymnasium Mathematics (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)	
(2015)	
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	1
First state examination for the teaching degree Gymnasium Mathematics (2019) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion	J
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 Algebra (virtual course) 10-M-VHBDA-152-m01					
Module	e coord	inator		Module offered by		
Dean o	f Studi	es Mathematik (Mathe	matics)	Institute of Mathem	atics	
ECTS	1	od of grading	Only after succ. con	npl. of module(s)		
2	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
			nd teaching algebra. Th number domains, vari			
Intend	ed lear	ning outcomes				
notions ment o justify able to tion. Th	s and m f under learnin; 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 ince 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 ics. They are able to algebra independent days and future desi	develop- develop and tly. They are gn of instruc-
Course	s (type	, number of weekly cor	itact hours, language –	- if other than Germa	n)	
Ü (2)			elle Hochschule Bayern		,	
			language — if other the can be chosen to earn		tion offered — if not	every seme-
		oased, 15 to 20 hours) ffered: Once a year, wi	nter semester			
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
60 h						
Teachi	ng cycl	٩				
reaction	is cycl	6				
			gulations for teaching-o	uegree programmes)		
§ 22 § 22		, § 22 Nr. 2 f)				
Module						
First sta First sta	ate exa ate exa	mination for the teach mination for the teach	ng degree Grundschule ng degree Grundschule ng degree Realschule <i>N</i> ng degree Gymnasium	e Didactics in Mather Mathematics (2015)		ol) (2015)
			ng degree Sonderpäda		athematics (Primary	School)
_	ate exa	mination for the teach	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle S	School)
			ng degree Mittelschule	-		
			ng degree Mittelschule			
LA Sonderp (Middle Sc		Didactics in Mathematics 5)		ated 18-Apr-2025 • exam. reg. (Mittelschule-Didaktikfach) M		page 19 / 34



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 C	Geometry (virtual course			10-M-VHBDG-152-m	01	
Module coord	linator		Module offered by			
	ies Mathematik (Mather	natics)	Institute of Mathem	atics		
	od of grading		Only after succ. compl. of module(s)			
	successfully completed					
Duration	Module level	Other prerequisites				
1 semester	undergraduate					
Contents						
important for which are usu chapters on s	actics is about learning all of geometry and mat ually discussed only brie pace geometry, trigonol rning outcomes	hematics, namely prov fly or not at all in unive	ving and problem so ersity lectures and in	lving. It also address	es topics	
	are acquainted with the					
They are able of instruction (in the sense Courses (type Ü (2) Course type:	arning units and learning to assess and value the . They know various field of modelling cycles) ind e, number of weekly con eLearning, mostly Virtue sessment (type, scope,	e importance of digital ds of application of geo ependently. tact hours, language — Ile Hochschule Bayern	technology with responetric concepts, an if other than Germa (vhb)	pect to todays and fund are able to perform	ture design n modelling	
project (web-	ion on whether module based, 15 to 20 hours) offered: Once a year, sur		a bonus)			
Allocation of	· · · · · · · · · · · · · · · · · · ·					
	places					
Additional in	formation					
		_				
Workload						
60 h						
Teaching cyc	le					
Referred to ir	LPOI (examination reg	gulations for teaching-o	legree programmes)			
§ 22 Nr. 1 h)						
§ 22 Nr. 2 f) § 22 Nr. 3 f)						
§ 22 Nr. 2 f)						
§ 22 Nr. 2 f) § 22 Nr. 3 f) Module appe		ng degree Grundschule	Mathematics (2015)		
§ 22 II Nr. 2 f) § 22 II Nr. 3 f) Module appe First state exa First state exa First state exa First state exa	ars in	ng degree Grundschule ng degree Realschule M ng degree Gymnasium	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)

	e title				Abbreviation		
Exam T	utorial	Didactics of Mathematic	cs (virtual course)		10-M-VHBEx-152-mo1		
Module coordinator				Module offered by			
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mathen	natics		
ECTS		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						
the Ers as basi	tes Sta ic guide	atsexamen für Lehramt G elines for answering exar	Gymnasium (first state	e examination for tea	g of theorems) in preparation for aching at a Gymnasium) as well state examination in Bavaria).		
		ning outcomes					
					s for solving the exam problems.		
	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)		
Ü (2) Course	type: e	Learning, mostly Virtuel	le Hochschule Bayern	(vhb)			
		e ssment (type, scope, la on on whether module c			ation offered — if not every seme		
		based, 15 to 20 hours) ffered: Once a year, wint	er semester				
	ion of	· · · · · · · · · · · · · · · · · · ·					
Additio	onal inf	ormation					
Worklo	ad						
	ad						
60 h		e					
60 h		e					
60 h Teachi 	ng cycl	e LPOI (examination regu	lations for teaching-o	degree programmes))		
60 h Teachi Referre § 22 II § 22 II	ng cycl ed to in Nr. 1 h) Nr. 2 f)		llations for teaching-o	degree programmesj)		
60 h Teachi Referre § 22 ll	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f)	LPOI (examination regu	ulations for teaching-o	degree programmes))		
60 h Teachi § 22 § 22 § 22 § 22 Module	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f) e appea	LPOI (examination regu					
60 h Teachi Referre § 22 II § 22 II § 22 II Module First st First st	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f) e appea ate exa ate exa	LPO I (examination regunnation regunnation for the teaching mination for teaching mination for the teaching mination for the teaching mination for the teaching mination for teaching mina	g degree Grundschule g degree Grundschule	e Mathematics (2015 Didactics in Mathe			
60 h Teachi Referre § 22 II § 22 II § 22 II § 22 II First st First st First st	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f) e appea ate exa ate exa ate exa ate exa	LPOI (examination regunnation regunnation for the teaching mination for te	g degree Grundschule g degree Grundschule g degree Realschule N	e Mathematics (2015 e Didactics in Mathe Mathematics (2015)) matics (Primary School) (2015)		
60 h Teachi Referre § 22 II § 22 II § 22 II § 22 II First st First st First st First st First st	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f) e appea ate exa ate exa ate exa ate exa ate exa	LPOI (examination regunnation regunnation for the teaching mination for teaching mination for the teaching mination for te	g degree Grundschule g degree Grundschule g degree Realschule M g degree Gymnasium	e Mathematics (2015 e Didactics in Mathe Mathematics (2015) Mathematics (2015)	.) matics (Primary School) (2015)		
60 h Teachi Referre § 22 II § 22 II § 22 II Module First st First st First st First st First st (2015)	ng cycl ed to in Nr. 1 h) Nr. 2 f) e appea ate exa ate exa ate exa ate exa ate exa ate exa	LPO I (examination regunnation for the teaching mination for teaching mination for teaching mination for teaching mination	g degree Grundschule g degree Grundschule g degree Realschule A g degree Gymnasium g degree Sonderpäda	e Mathematics (2015 e Didactics in Mathe Mathematics (2015) Mathematics (2015) gogik Didactics in N	.) matics (Primary School) (2015) lathematics (Primary School)		
60 h Teachi Referre § 22 II § 22 II § 22 II Module First st First st First st First st First st (2015) First st (2015)	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f) e appea ate exa ate exa ate exa ate exa ate exa ate exa	LPO I (examination regunnments) (examination regunnments) (examination for the teaching mination for the teaching	g degree Grundschule g degree Grundschule g degree Realschule A g degree Gymnasium g degree Sonderpäda g degree Sonderpäda	e Mathematics (2015 e Didactics in Mathe Mathematics (2015) Mathematics (2015) gogik Didactics in N gogik Didactics in N	.) matics (Primary School) (2015) lathematics (Primary School) lathematics (Middle School)		
60 h Teachi Referre § 22 II § 22 II § 22 II § 22 II Module First st First st First st First st (2015) First st (2015) First st	ng cycl ed to in Nr. 1 h) Nr. 2 f) Nr. 3 f) e appea ate exa ate exa ate exa ate exa ate exa ate exa ate exa	LPOI (examination regunnation regunnation for the teaching mination for teaching mination for the teaching mination for th	g degree Grundschule g degree Grundschule g degree Realschule M g degree Gymnasium g degree Sonderpäda g degree Sonderpäda g degree Mittelschule	e Mathematics (2015 e Didactics in Mathe Mathematics (2015) Mathematics (2015) gogik Didactics in N gogik Didactics in N Mathematics (2015	.) matics (Primary School) (2015) lathematics (Primary School) lathematics (Middle School)		

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
Basics	in Sch	ool Geometry (virtual co	urse)		10-M-VHBGe0-152-m01
Module	e coord	inator		Module offered by	<u> </u>
Dean o	f Studi	es Mathematik (Mathem	atics)	Institute of Mathen	natics
			Only after succ. com		
2		successfully completed			
Duratio		Module level	Other prerequisites		
1 seme		undergraduate			
Conten	ts		1		
					hat are prerequisites for the sub Hauptschule, Realschule) in geo
Intende	ed lear	ning outcomes			
		as basic knowledge of s acquainted with the em			of mathematics and its didac- ng geometry in school.
Course	s (type	, number of weekly cont	act hours, language —	· if other than Germa	an)
Ü (2) Course	type: e	eLearning, mostly Virtuel	lle Hochschule Bayern	(vhb)	
		sessment (type, scope, l ion on whether module o	0 0		ation offered — if not every seme
		based, 15 to 20 hours) offered: Once a year, sum	nmer semester		
Allocat	ion of	places			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachi		Δ	_		
- caciiii	is tyti	•			
Referre	d to in	LPOI (examination reg	ulations for teaching.	legree programmee	
§ 22					
§ 22 § 22					
§ 22					
Module	e appea	ars in			
First sta	ate exa	mination for the teachin	g degree Grundschule	Mathematics (2015	;)
					matics (Primary School) (2015)
		mination for the teachin			
		mination for the teachin			
(2015)					lathematics (Primary School)
(2015)					lathematics (Middle School)
		mination for the teachin mination for the teachin			
		mination for the teachin			



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	e title			Abbreviation	
Mather	matics in grade 10 (virtual co	urse)		10-M-VHBM10-152-	m01
Module	e coordinator		Module offered by	<u> </u>	
	f Studies Mathematik (Mathe	ematics)	Institute of Mathem	natics	
ECTS	Method of grading	Only after succ. con			
2	(not) successfully complete				
Duratio		Other prerequisites			
1 seme	· · · ·				
Conten					
		as in tanth grada in Usu	ntashula Daalashul	a and Cumpacium	
	opics on teaching mathemati		ipischule, Realschul	e and Gymnasium.	
	ed learning outcomes				
schule,	Ident learns basic topics in th , as well as the related mathe technologies for teaching ma	matical backgrounds ar	nd proofs. He/She is		
Course	s (type, number of weekly co	ntact hours, language –	- if other than Germa	ın)	
Ü (2)		,			
• •	type: eLearning, mostly Virtu	elle Hochschule Bayern	(vhb)		
	d of assessment (type, scope formation on whether module			tion offered — if not	every seme
	(web-based, 15 to 20 hours) ment offered: Once a year, su	ummer semester			
Allocat	ion of places				
Additio	onal information				
Worklo					
60 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination re	gulations for teaching-	degree programmes)		
§ 22 § 22 § 22	Nr. 2 f)				
Module	e appears in				
	ate examination for the teach	ing degree Grundschule	e Mathematics (2015)	
	ate examination for the teach				ool) (2015)
First sta	ate examination for the teach	ing degree Realschule N	Mathematics (2015)		
First sta	ate examination for the teach	ing degree Gymnasium	Mathematics (2015)		
	ate examination for the teach	ing degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
	ate examination for the teach	ing degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
(2015) First sta	ate examination for the teach	ing degree Mittelschule	Mathematics (2015)	
	ate examination for the teach				ol) (2015)
	ate examination for the teach				
	ate examination for the teach		-		version
	adagogik Didactics in Mathematics hool) (2015)		ated 18-Apr-2025 • exam. reg (Mittelschule-Didaktikfach)		page 27 / 34



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)

Modu	ule title				Abbreviation	
Math	ematics	1 (virtual course)			10-M-VHBMa1-152-	m01
Modu	ule coord	inator		Module offered by	<u> </u>	
Dean	of Studi	es Mathematik (Mathe	matics)	Institute of Mathematics		
ECTS		od of grading	Only after succ. cor			
2	_	successfully completed				
– Durat		Module level	Other prerequisites			
	nester	undergraduate				
Conte		undergraduate				
		basic topics on teachi	ng mathematics in a Gy	/mnasium, in particu	lar verbal and subie	ct-specific
		concerning the organi		· ··· · · · · · · · · ·	,-	
Inten	ded lear	ning outcomes				
		able to discuss select oth subject-related and	ed topics and question d methodical aspects.	is on teaching mathe	matics at German G	ymnasium,
Cours	ses (type	, number of weekly cor	ntact hours, language –	– if other than Germa	n)	
Ü (2)		,				
• • •	se type: e	Learning, mostly Virtu	elle Hochschule Bayerr	ו (vhb)		
			language — if other th		tion offered — if not	every seme
			e can be chosen to earn			, serve serve
proje	ct (web-b	based, 15 to 20 hours)				
		ffered: Every two years	, winter semester			
Alloc	ation of p	olaces				
	<u> </u>					
	tional inf					
Addit	tional Inf	ormation				
Work	load					
60 h						
Teach	hing cycl	8				
Refer	rred to in	LPOI (examination re	gulations for teaching-	degree programmes)		
§ 22	II Nr. 1 h)					
-	II Nr. 2 f)					
§ 22	II Nr. 3 f)					
Modu	ule appea	ars in				
First	state exa	mination for the teach	ing degree Grundschul	e Mathematics (2015)	
			ing degree Grundschul			ool) (2015)
			ing degree Realschule I			
			ing degree Gymnasium			
			ing degree Sonderpäda		athematics (Primary	School)
(2015						
		mination for the teach	ing degree Sonderpäda	agogik Didactics in M	athematics (Middle	School)
(2015						
			ing degree Mittelschule			
			ing degree Mittelschule			ol) (2015)
			ing degree Gymnasium			
		mination for the teach	ing degree Mittelschule	e Mathematics (2020	(Prüfungsordnungs	version
2015)	1)					
A Sond	erpädagogik	Didactics in Mathematics	JMU Würzburg • gener	ated 18-Apr-2025 • exam. reg	. data record Lehr-	page 29 / 34



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)

Modu	ule title				Abbreviation	
Math	ematics	2 (virtual course)		-	10-M-VHBMa2-152-	m01
Modu	le coord	inator		Module offered by	<u> </u>	
		es Mathematik (Mather	natics)	Institute of Mathem	natics	
ECTS		od of grading	Only after succ. con		Tatics	
2		successfully completed				
Durat		Module level	Other prerequisites			
	nester	undergraduate				
Conte	ents					
		central topics on teach lementation in the clas		Symnasium, in partic	ular didactic analys	es and poss
Inten	ded leari	ning outcomes				
		able to discuss and ar om a didactical point o		and questions on tea	aching mathematics	at German
		, number of weekly con		- if other than Germa	in)	
Ü (2)		, <u> </u>				
• • •	se type: e	Learning, mostly Virtue	elle Hochschule Bavern	ı (vhb)		
Meth	od of ass	essment (type, scope, on on whether module	language — if other th	an German, examina	tion offered — if not	every seme
		based, 15 to 20 hours) ffered: Every two years	summer semester			
Alloca	ation of p	olaces				
۸ddit	tional info	ormation				
Auun						
Work	load					
60 h						
Teach	hing cycl	6				
	<u> </u>	-				
D - (۱		
		LPOI (examination reg	gulations for teaching-o	degree programmes)		
§ 22	ll Nr. 1 h) ll Nr. 2 f) ll Nr. 3 f)					
-	ıle appea	urs in				
			ng dogroo Crucedeebal	Mathomatics ()	
		mination for the teachi mination for the teachi				(2015)
		mination for the teachi			matics (rimaly scill	5017 (2015)
		mination for the teachi				
		mination for the teachi				School
(2015				Sogne Brauenes III M	achematics (rinnary	501000
	state exa	mination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
-		mination for the teachi	ng degree Mittelschule	Mathematics (2015))	
		mination for the teachi				ol) (2015)
		mination for the teachi				
	state exa	mination for the teachi		-		version
A C a stal	ernädagogik	Didactics in Mathematics	JMU Würzburg ● genera	ated 18-Apr-2025 • exam. reg	. data record Lehr-	page 31 / 34



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 (virtu	al course)		10-M-VHBSto-152-mo	1
Module	e coordinator		Module offered by		
	f Studies Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS	Method of grading	Only after succ. con		latics	
2	(not) successfully completed				
- Duratio		Other prerequisites			
1 seme					
Conten					
fic and	n and consolidation of the fun didactic courses in stochastic		chastics that are pre	erequisites for the subj	lect-speci-
Intende	ed learning outcomes				
	ident has basic knowledge of s /She is acquainted with the er		,		
Course	s (type, number of weekly con	tact hours, language –	if other than Germa	n)	
Ü (2) Course	type: eLearning, mostly Virtue	lle Hochschule Bayorn	(vbb)		
				tion offered if not	10111 0 0 000
	d of assessment (type, scope, formation on whether module			tion offered — If not ev	very seme-
	(web-based, 15 to 20 hours) ment offered: Once a year, wir	iter semester			
	ion of places				
Additio	onal information				
Auuitio					
Worklo	ad	_			
60 h					
Teachi	ng cycle				
reaction					
	ed to in LPO I (examination reg	gulations for teaching-o	legree programmes)		
§ 22 § 22 § 22	Nr. 2 f)				
	e appears in				
	ate examination for the teaching	ng degree Grundschulz	Mathematics (2015)	
	ate examination for the teaching		-) (201E)
	ate examination for the teaching				, (2013)
	ate examination for the teaching				
	ate examination for the teaching			athematics (Primarv So	مهمما)
First sta		5 5 5 5 5 F F F F F F F F F F F F F F F			(1001)
First sta (2015)					(1001)
(2015)	ate examination for the teaching	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle Sc	
(2015) First sta (2015)					
(2015) First sta (2015) First sta	ate examination for the teaching	ng degree Mittelschule	Mathematics (2015)	1	hool)
(2015) First sta (2015) First sta First sta	ate examination for the teachin ate examination for the teachin	ng degree Mittelschule ng degree Mittelschule	Mathematics (2015) Didactics in Mather	natics (Middle School)	hool)
(2015) First sta (2015) First sta First sta First sta	ate examination for the teachin ate examination for the teachin ate examination for the teachin	ng degree Mittelschule ng degree Mittelschule ng degree Gymnasium	Mathematics (2015) Didactics in Mather Mathematics (2019)	natics (Middle School)	:hool) (2015)
(2015) First sta (2015) First sta First sta First sta First sta	ate examination for the teachin ate examination for the teachin	ng degree Mittelschule ng degree Mittelschule ng degree Gymnasium	Mathematics (2015) Didactics in Mather Mathematics (2019)	natics (Middle School)	:hool) (2015)
(2015) First sta (2015) First sta First sta First sta First sta 2015))	ate examination for the teachin ate examination for the teachin ate examination for the teachin	ng degree Mittelschule ng degree Mittelschule ng degree Gymnasium ng degree Mittelschule	Mathematics (2015) Didactics in Mather Mathematics (2019)	natics (Middle School) (Prüfungsordnungsve	:hool) (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)