

## Subdivided Module Catalogue for the Subject

# Didactics in Mathematics (Primary 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 (2015-187)

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
died with a focus on teachin (First State Examination) in t	<b>FS credits)</b> odules worth no less than 10 ECTS credits in each subject select g methodology) (mandatory courses) is a prerequisite for admis he subject Didaktik der Grundschule (Didactics for Grundschule be successfully completed in one of the subjects selected as Di	sion to the ). In additi	Erste Staatspr on, modules w	rüfung orth
10-M-MGS1-152-m01	Mathematics in German Grundschule - Arithmetics	5	NUM	11
10-M-MGS2-152-m01	Mathematics in German Grundschule - Geometry and Applica- tion of Mathematics	5	NUM	12
Compulsory Electives (5 ECT	S credits)			<u> </u>
10-M-MGS3-152-m01	Didactics and Methology of Teaching Mathematics	5	B/NB	13
reier Bereich (general as we	ll as subject-specific electives)			
ect-specific electives) (Sectic o achieve the required numb reier Bereich interdisciplin lex "Ergänzende Bestimmung Extra Skills Teaching Mathe	Ist 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 ary: The interdisciplinary additional offer for a teaching degree of gen für den "Freien Bereich" im Rahmen des Studiums für ein Lei ematics at the German Grundschule	eaching-de as below. :an be four	egree programr	nes)).
(Freier Bereich (general as w	rell as subject-specific electives) subject specific)			·
10-M-DAGS1-152-m01	Selected Topics in Didactics of Mathematics 1 (German Grund- schule)	2	B/NB	5
10-M-DMGS1-152-m01	Methodology of Teaching in Mathematics 1 (German Grund- schule)	3	B/NB	7
10-M-DAGS2-152-m01	Selected Topics in Didactics of Mathematics 2 (German Grund		B/NB	6
10-M-DMGS2-152-m01	Methodology of Teaching in Mathematics 2 (German Grund- schule)	3	B/NB	8
10-M-DVHB-152-m01	E-Learning and Blended Learning in Mathematical Teaching (virtual Course)		B/NB	9
10-M-VHBAri-152-m01	Basics in Arithmetics (virtual course)	2	B/NB	16
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	34
10-M-VHBM10-152-m01	Mathematics in grade 10 (virtual course)	2	B/NB	28
10-M-VHBAuG-152-m01	Basics of Mathematics für German Grundschule 1: Arithmetics and Orders of Magnitude (virtual course)	2	B/NB	18
10-M-VHBGuS-152-m01	Basics of Mathematics für German Grundschule 2: Geometry and Stochastics (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	30
10-M-VHBMa2-152-m01	Mathematics 2 (virtual course)	2	B/NB	32
10-M-MMMG1-152-m01	Methods and Media in Teaching Mathematics 1 (German Grundschule)	3	B/NB	14
	Methods and Media in Teaching Mathematics 2 (German			

#### Paper (10 ECTS credits)

LA Sonderpädagogik Didactics in Mathematics (Pri
mary School) (2015)

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 Grundschule may write this thesis in the subject Didaktik der Grundschule (Didactics of Grundschule), 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.

	e title				Abbreviation
Selecte	ed Topi	cs in Didactics of Mather	matics 1 (German Gru	ndschule)	10-M-DAGS1-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mather	natics
ECTS		od of grading	Only after succ. com	npl. of module(s)	
2	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
on of te schule,	eaching , select	materials for mathemat ed topics and research re	ics in Grundschule, u esults in modern matl	sing computers for t hematics didactics,	pects (e.g. dyscalculia, evaluati- teaching mathematics in Grund- theoretical foundations of mathe tantial learning environments).
Intend	ed lear	ning outcomes			
plannir	ng and				atics, knows important aspects o or teaching and learning und can
Course	<b>s</b> (type	, number of weekly conta	act hours, language —	- if other than Germa	an)
S (2)					
		<b>sessment</b> (type, scope, la on on whether module c			ation offered — if not every seme
b) term c) proje	i paper ect (10 l	x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, v	vinter semester		
	ion of r	olaces			
Allocat					
Allocat					
		ormation			
		ormation			
	onal inf	ormation			
 Additio	onal inf	ormation			
 Additio  Worklo	onal info				
 Additio  Worklo 60 h	onal info				
 Additio  Worklo 60 h Teachin 	onal info oad ng cycl		lations for teaching-c	legree programmes	)
 Additio  Worklo 60 h Teachin 	onal info oad ng cycl	e	llations for teaching-c	degree programmes	)
 Additio  Worklo 60 h Teachin  Referre	nal info nad ng cycl ed to in Nr. 1 h)	e LPOI (examination regu	llations for teaching-c	degree programmes	)

Moaule	e title				Abbreviation
Selecte	ed Topi	cs in Didactics of Mathe	matics 2 (German Gru	ndschule)	10-M-DAGS2-152-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mather	natics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
2	(not) s	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
on of te schule,	eaching , select	g materials for mathemat ed topics and research re	ics in Grundschule, us esults in modern math	sing computers for the nematics didactics,	pects (e.g. dyscalculia, evaluati- teaching mathematics in Grund- theoretical foundations of mathe tantial learning environments).
Intend	ed lear	ning outcomes			
plannir	ng and				atics, knows important aspects o or teaching and learning und car
Course	<b>s</b> (type	, number of weekly conta	act hours, language —	if other than Germa	an)
C (a)					
S (2)					
Metho		<b>sessment</b> (type, scope, la ion on whether module c			ation offered — if not every seme
Method ster, in a) talk b) term c) proje	formati (approx paper ect (10 f		an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje	formati (approx paper ect (10 t ment o	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s	an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje Assess	formati (approx paper ect (10 t ment o	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s	an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje Assess Allocat	formati (approx paper ect (10 t ment o <b>ion of p</b>	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s	an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje Assess Allocat	formati (approx paper ect (10 t ment o <b>ion of p</b>	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s places	an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje Assess Allocat	formati (approx paper ect (10 t ment o ion of p	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s places	an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje Assess Allocat  Additio	formati (approx paper ect (10 t ment o ion of p	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s <b>places</b>	an be chosen to earn a		ation offered — if not every seme
Method ster, in a) talk b) term c) proje Assess Allocat  Additio  Worklo	formati (appro) paper ect (10 1 ment o ion of p onal info	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s places ormation	an be chosen to earn a		ation offered — if not every seme
Methor ster, in a) talk b) term c) proje Assess Allocat  Additio  Worklo 60 h Teachin	formati (appro) paper ect (10 f ment o ion of p onal info ad	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) iffered: Every two years, s places ormation	an be chosen to earn a	a bonus)	
Method ster, in a) talk b) term c) proje Assess Allocat  Additio 60 h Teachin  Referre	formati (approx paper ect (10 f ment o ion of p onal info pad	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s places ormation	an be chosen to earn a	a bonus)	
Methor ster, in a) talk b) term c) proje Assess Allocat  Worklo 60 h Teachin  Referrer § 22 II	formati (appro) paper ect (10 f ment o ion of p onal info ad ng cycl ed to in Nr. 1 h)	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s places ormation e LPOI (examination regu	an be chosen to earn a	a bonus)	
Method ster, in a) talk b) term c) proje Assess Allocat  Additio 60 h Teachin  § 22 II Module	formati (approx paper ect (10 f ment o ion of p onal info pad ng cycl ed to in Nr. 1 h) e appea	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s places ormation e LPO I (examination regu	an be chosen to earn a summer semester	a bonus)	)
Methor ster, in a) talk b) term c) proje Assess Allocat  Worklo 60 h Teachin  § 22 II First sta First sta	formati (appro) paper ect (10 f ment o ion of p onal info ad ed to in Nr. 1 h) e appea ate exa ate exa	ion on whether module c x. 45 minutes) or (5 to 10 pages) or to 15 pages) iffered: Every two years, s places ormation e LPO I (examination regu ars in mination for the teaching mination for the teaching	an be chosen to earn a summer semester ulations for teaching-d g degree Grundschule g degree Grundschule	a bonus)	

Modul	e title				Abbreviation
Metho	dology	of Teaching in Mathema	tics 1 (German Grund	schule)	10-M-DMGS1-152-m01
Modul	e coord	inator		Module offered by	-
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mather	natics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
3	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	Its				
ly weal stantia	k or par	ticularly strong in mathe ng environments as well	matics, dealing with I	neterogeneity in the	t for pupils who are particular- classroom, organisation of sub- classroom, also including mo-
Intend	ed lear	ning outcomes			
in teac is acqu	hing ma ainted	athematics and importan with learning and teachi	it aspects in planning ng strategies and can	and analysing the employ and assess	
	s (type	, number of weekly conta	ict nours, language –	- if other than Germa	an)
S (2)					
		<b>sessment</b> (type, scope, la on on whether module c			ation offered — if not every seme
b) term c) proje Assess	paper ect (10 f	x. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, v	vinter semester		
Allocat	ion of p	olaces	-		
Additic	onal inf	ormation			
			_		
Worklo	ad				
90 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	llations for teaching-o	degree programmes	)
§ 22	-				
Madul	e appea	urs in			
Module		mination for the teaching	g degree Grundschule	Mathematics (201	-)
First st First st	ate exa				matics (Primary School) (2015) 1athematics (Primary School)

Module	e title				Abbreviation
Metho	dology	of Teaching in Mathema	tics 2 (German Grund	lschule)	10-M-DMGS2-152-m01
Module coordinator				Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathen	natics
ECTS		od of grading	Only after succ. com	npl. of module(s)	
3	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
ly weak	c or par l learni	ticularly strong in mathe ng environments as well	matics, dealing with h	neterogeneity in the	for pupils who are particular- classroom, organisation of sub- classroom, also including mo-
Intend	ed lear	ning outcomes			
in teac is acqu	hing ma ainted	athematics and importar with learning and teachi	t aspects in planning ng strategies and can	and analysing the t employ and assess	
	s (type	, number of weekly conta	ict nours, language –	- II other than Germa	411 <i>)</i>
S (2)					
		<b>sessment</b> (type, scope, la on on whether module c			ation offered — if not every seme
b) term c) proje	paper ect (10 l	k. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s	ummer semester		
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cycl	ρ			
		•	<u>.</u>		
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes	
§ 22					
Module	e appea	nrs in			
First sta	ate exa	mination for the teaching	g degree Grundschule	Mathematics (2015	;)
First sta	ate exa		g degree Grundschule	Didactics in Mathe	matics (Primary School) (2015)
First sta (2015)					athematics (Finnary School)

Modul				Abbreviation	
E-Lear	ning and Blended Learning in M	athematical Teaching	g (virtual Course)	10-M-DVHB-152-mo	)1
Modul	le coordinator		Module offered by	<u> </u>	
Dean o	of Studies Mathematik (Mathem	atics)	Institute of Mathem	natics	
ECTS	Method of grading	Only after succ. com			
3	(not) successfully completed				
Durati	on Module level	Other prerequisites			
1 seme					
Conte		1			
	ourse offered by Virtuelle Hochso ques in e-learning and blended			acquainted with and	reflects on
	led learning outcomes	0 0 0			
The st	udent is acquainted with basic r s their potentials and limitations		and blended learnir	ng in teaching methe	ematics, as
	es (type, number of weekly conta		if other than Germa	n)	
Ü (2)	e (ype, number of weekly contr			,	
• • •	e type: eLearning, mostly Virtuel	le Hochschule Bavern	(vhb)		
	od of assessment (type, scope, la	· · · ·		tion offered — if not	everv seme
	nformation on whether module of				every serife
projec	t (web-based, 15 to 20 hours) sment offered: Once a year, wint		,		
	· · · · · · · · · · · · · · · · · · ·				
Alloca	tion of places				
Additi	onal information				
Workl	oad				
90 h					
Teachi	ing cycle				
Poforr	ed to in LPO I (examination regu	lations for teaching	legree programmes)		
	Nr. 1 h)				
-	Nr. 2 f)				
-	Nr. 3 f)				
	le appears in				
	tate examination for the teaching	g degree Grundschule	Mathematics (2015	)	
	tate examination for the teachin				ool) (2015)
	tate examination for the teachin			. ,	, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
First st	tate examination for the teachin	g degree Gymnasium	Mathematics (2015)		
	tate examination for the teachin	g degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
(2015)					
	tate examination for the teachin	g degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
(2015) First st	tate examination for the teachin	g degree Mittelschule	Mathematics (2015)	)	
	tate examination for the teaching				ol) (2015)
	tate examination for the teaching				
	tate examination for the teaching	·	-		version
2015))					-
	rpädagogik Didactics in Mathematics (Pri-		ted 18-Apr-2025 • exam. reg		,,
A C 1					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
Mather	natics	in German Grundschule -	Arithmetics		10-M-MGS1-152-m01
Module	e coord	inator		Module offered by	
Dean o	fStudie	es Mathematik (Mathema	atics)	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 seme	ster	undergraduate			
Conten	ts				
					account subject-specific and di- including modern technologies.
Intende	ed learn	ning outcomes			
velopm which o and pro ching a	ental p can be o oblems nd lear	sychology and didactics employed in teaching ma of pupils in the acquisiti ning strategies.	of mathematics, as v thematics in elemen on of mathematical s	vell as important mo tary school. She/he kills, and can emplo	ary school, fundamentals of de- odels, presentations and media knows about common difficulties by didactical principles and tea-
		, number of weekly conta	ct hours, language —	f other than Germa	an)
V (2) +					
		s <b>essment</b> (type, scope, la on on whether module ca			ition offered — if not every seme-
lf anno examin	unced l ation o 5 minut	f one candidate each (ap es per candidate).	inning of the course,		tion may be replaced by an oral n in groups of 2 candidates (ap-
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
§ 36 I N	lr. 7				
Module		urs in			
First sta (2015) First sta	ate exa ate exa	mination for the teaching	g degree Sonderpäda g degree Sonderpäda	gogik Didactics in M	matics (Primary School) (2015) athematics (Primary School) athematics (Primary School)
		gsordnungsversion 2015) gram Mathematics (2023)			

Module title					Abbreviation
Mathe	matics	in German Grundschule -	Geometry and Appli	cation of Mathema-	10-M-MGS2-152-m01
tics					, ,
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	atics
ECTS	1	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	lts		-		
					account subject-specific and di
		•	of implementation in	the classroom, also	including modern technologies.
Intend	ed lear	ning outcomes			
velopm which o and pro	iental p can be oblems	osychology and didactics employed in teaching ma	of mathematics, as v athematics in elemen	vell as important mo tary school. She/he	ry school, fundamentals of de- dels, presentations and media knows about common difficulties y didactical principles and tea-
		, number of weekly conta	 ct hours, language —	if other than Germa	n)
V (2) +		,			.,
ster, in written If anno examir	formati examin unced nation c 5 minut	on on whether module canation (approx. 60 to 90 by the lecturer at the beg of one candidate each (appression) tes per candidate).	an be chosen to earn minutes) inning of the course,	a bonus) the written examina	tion offered — if not every seme- tion may be replaced by an oral in groups of 2 candidates (ap-
Allocat	ion of <sub>l</sub>	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cvcl	e			
	0.7	2			
Referre	d to in	LPOI (examination regu	lations for teaching.	legree programmes)	
§ 36   N					
Module	-	urs in			
			g degree Grundschule	Didactics in Mather	natics (Primary School) (2015)

Module	title				Abbreviation
Didacti	cs and	Methology of Teaching I	Mathematics		10-M-MGS3-152-m01
Module coordinator Module offered by					^
Dean o	fStudie	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
2 seme	ster	undergraduate			
Conten	ts				
on dida calculia matics	ictic as a, evalu in Grur s of ma	pects (e.g. support for p lation of teaching materia dschule, selected topics thematics didactics, dea	upils who are particu als for mathematics in and research results	larly weak or particu n Grundschule, usin 5 in modern mathem	aching mathematics with a focus larly strong in mathematics, dys- g computers for teaching mathe- atics didactics, theoretical foun- organising substantial learning
		ning outcomes			
The stu mather	dent is natical	acquainted with theoret	aspects of planning a	nd analysing teachi	atics and possibilities to promote ng of mathematics, masters diffe
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	in)
S (2) +	S (2)				
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
b) term c) proje	paper ect (15 t	k. 45 minutes) or (10 to 15 pages) or o 25 pages) ffered: Once a year, wint	er semester		
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
		-			
Referre	d to in	LPOI (examination regu	lations for teaching.	legree programmes	
§ 36   N			actions for teaching-t		
Module		arc in			
			r dogroo Grundsshula	Didactics in Matha	matics (Primary School) (2015)
					athematics (Primary School) (2015)
		mination for the teaching gsordnungsversion 2015		gogik Didactics in M	athematics (Primary School)

Module	e title				Abbreviation
Metho	ds and	Media in Teaching Math	ematics 1 (German Gr	undschule)	10-M-MMMG1-152-m01
Module	e coord	inator		Module offered	by
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mat	hematics
ECTS		od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
cularly enviror	weak i ments	n mathematics, dealing v	vith heterogeneity in t the classroom (e.g. r	he classroom, o	who are particularly strong or parti rganisation of substantial learning use of computers) are discussed
Intende	ed lear	ning outcomes			
		nows the possibilities, line aching mathematics.	nitations, advantages	and disadvanta	ages of methods and media for em-
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Ge	rman)
S (2)		· · · · ·			
ster, in a) talk b) term c) proje	formati (approx paper ect (10 f	on on whether module c (45 minutes) or (5 to 10 pages) or (5 to 15 pages) ffered: Every two years, v	an be chosen to earn		nination offered — if not every sem
Allocat	ion of p	olaces			
 Additio	nal inf	ormation			
Worklo	ad				
90 h					
	ng cycl	e			
	d to in	LPOI (examination regu	lations for teaching-d	egree programm	nes)
Referre					
	Nr. 1 h)				
§ 22	Nr. 1 h) e appea	irs in			

Module	e title				Abbreviation
Methoo	ds and	Media in Teaching Mathe	ematics 2 (German G	rundschule)	10-M-MMMG2-152-m01
Module	e coord	inator		Module offered	d by
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Ma	thematics
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Further	topics	in the methodology of te	aching mathematics	(e.g. learning n	naterials, in-depth employment of me
		sroom) are discussed an			
Intende	ed lear	ning outcomes			
The stu	dent ki	nows the possibilities, lir	nitations, advantage	s and disadvant	tages of comprehensive methods and
		oloyment in teaching mat			·
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	- if other than G	erman)
S (2)					
a) talk b) term c) proje	(approx paper ect (10 f	on on whether module ca k. 45 minutes) or (5 to 10 pages) or to 15 pages) ffered: Every two years, s		a bonus)	
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-	degree program	mes)
§ 22	Nr. 1 h)				
Module	e appea	ars in			
First sta	ate exa	mination for the teaching	g degree Grundschule	Mathematics (	2015)
			-		athematics (Primary School) (2015)
First sta (2015)	ate exa	mination for the teaching	g degree Sonderpäda	gogik Didactics	in Mathematics (Primary School)
First sta (2020 (	Prüfun	mination for the teaching gsordnungsversion 2015 gram Mathematics (2023	))	gogik Didactics	in Mathematics (Primary School)

exchange program Mathematics (2023)

Module	e title				Abbreviation
Basics	in Arith	nmetics (virtual course)			10-M-VHBAri-152-m01
Module	e coord	inator		Module offered by	
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)	
2	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Basic t	opics o	n teaching arithmetics in	school, e. g. divisabi	lity theory, prime nu	Imbers, set theory.
Intend	ed learı	ning outcomes			
					athematical backgrounds and
proofs.	He/Sh	e is acquainted with the	employment of new t	echnologies for teac	hing arithmetic in school.
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	in)
Ü (2)				<pre>/</pre>	
		Learning, mostly Virtuell			
					tion offered — if not every seme
-		on on whether module ca	an be chosen to earn	a DOMUS)	
		based, 15 to 20 hours) ffered: Once a year, winte	ar somostor		
	ion of p	· · ·			
AllULAL		Jaces			
		<b>4</b> •			
Additio	onal Inf	ormation			
Worklo	ad				
60 h		•			
Teachi	ng cycl	e			
 D - (			1		
		LPOI (examination regu	lations for teaching-o	legree programmes)	
§ 22      § 22					
§ 22      § 22					
Module		urs in			
		mination for the teaching	degree Grundschule	Mathematics (2015	)
		-	-		natics (Primary School) (2015)
First sta	ate exa	mination for the teaching	g degree Realschule N	Nathematics (2015)	
		mination for the teaching			
First sta (2015)	ate exa	mination for the teaching	g degree Sonderpädag	gogik Didactics in M	athematics (Primary School)
First sta	ate exa	mination for the teaching	degree Sonderpäda	gogik Didactics in M	athematics (Middle School)
(2015) First sta	ate exa	mination for the teaching	degree Mittelschule	Mathematics (2015)	
			-		, natics (Middle School) (2015)
		mination for the teaching	-		
		-			(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))

exchange program Mathematics (2023)

Module					Abbrouistion
		nematics für German Gru	ndschule 1. Arithmet	ics and Orders of	Abbreviation
		rtual course)	indschule 1. Antimiet	ics and orders of	10-M-VHBAuG-152-m01
Module				Module offered by	
Dean of	fStudie	es Mathematik (Mathema	atics)	Institute of Mathem	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 semes	ster	undergraduate			
Conten	ts				
arithme	etic law				ation, elementary arithmetics, nathematics on the quantities co-
Intende	ed learr	ning outcomes			
mathen They kn They ar	natics r Iow stra e able f uction.	elated to quantities, and ategies for development to assess and value the i They know various fields	l are able to structure of understanding of t mportance of digital t	the notions and me he central notions o technology with resp	ontents in application-oriented thods within a conceptual map. f arithmetic in elementary school. pect to todays and future design nd are able to perform modelling
Courses	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	ın)
Ü (2) Course	type: e	Learning, mostly Virtuell	e Hochschule Bayern	(vhb)	
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
		ased, 15 to 20 hours) ffered: Once a year, winte	er semester		
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
60 h					
Teachir	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
§ 22    N	Nr. 1 h)				
Module	appea	in a state of the			
First sta First sta (2015) First sta	ate exa ate exa ate exa	mination for the teaching	g degree Grundschule g degree Sonderpädag g degree Sonderpädag	Didactics in Mather gogik Didactics in M	) matics (Primary School) (2015) athematics (Primary School) athematics (Primary School)
		gram Mathematics (2023)			

Module title					Abbreviation	
Didact	cs of A	lgebra (virtual course)			10-M-VHBDA-152-m	01
Modul	e coord	inator		Module offered by		
Dean o	f Studie	es Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
		tics is about learning a algebra: extensions of				
Intend	ed learı	ning outcomes				
notions ment o justify able to tion. Th	s and m f under learning assess ney kno	are acquainted with the lethods within a conce standing of the central g units and learning se and value the importa w various fields of app elling cycles) independ	otual map. They know s concepts of algebra in quences for the import nce of digital technolo lication of algebraic co	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 c algebra independent days and future desig	develop- develop and ly. They are gn of instruc-
Course	<b>s</b> (type	, number of weekly con	tact hours, language –	- if other than Germa	n)	
Ü (2) Course	type: e	Learning, mostly Virtue	elle Hochschule Bayern	ı (vhb)		
		essment (type, scope, on on whether module			tion offered — if not o	every seme-
project	(web-b	pased, 15 to 20 hours) ffered: Once a year, wir				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
60 h						
Teachi		9				
reactin	is cycl	5				
		LPOI (examination reg	gulations for teaching-o	degree programmes)		
§ 22    § 22		, § 22 II Nr. 2 f)				
Module	e appea	rs in				
First st	ate exa	mination for the teachi	ng degree Grundschule	e Mathematics (2015)	)	
First st	ate exa	mination for the teachi	ng degree Grundschule	e Didactics in Mather	natics (Primary Scho	ol) (2015)
First st	ate exa	mination for the teachi	ng degree Realschule N	Mathematics (2015)		
		mination for the teachi				
	ate exa	mination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
(2015) First st	-+	mination for the to - 1 '	an danna Canalam VI	an aile Distantion in M	othomotics (Middle C	chocl)
First st (2015)	ate exa	mination for the teachi	ng degree Sonderpada	gogik Didactics in M	athematics (Middle S	school)
_	ate eva	mination for the teachi	ng degree Mittelschule	Mathematics (2015)		
		mination for the teachi		-		) (2015)
	ädagogik	Didactics in Mathematics (Pri-	JMU Würzburg • genera	ated 18-Apr-2025 • exam. reg. (Grundschule-Didaktikfach) /	. data record Lehr-	page 19 / 35



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 G	eometry (virtual course)			10-M-VHBDG-152-m	101
Module coordinator			Module offered by		
Dean of Studi	Dean of Studies Mathematik (Mathematics) Institute of Mathematics				
	od of grading	Only after succ. com			
	successfully completed				
Duration	Module level	Other prerequisites			
1 semester	undergraduate				
Contents	•	•			
important for which are usu chapters on s	actics is about learning a all of geometry and math Ially discussed only brief pace geometry, trigonom	nematics, namely prov ly or not at all in unive	ing and problem so ersity lectures and in	lving. It also address	ses topics
Intended lear	ning outcomes				
and justify lea They are able of instruction (in the sense	rstanding of the central c arning units and learning to assess and value the . They know various field of modelling cycles) inde	sequences for the im importance of digital t s of application of geo pendently.	portant topics in sch technology with resp ometric concepts, an	nool geometry indep pect to todays and fu nd are able to perform	endently. Iture design
	, number of weekly conta	act nours, language —	If other than Germa	in)	
Ü (2) Course turne		la lla chachada Davama	(		
	eLearning, mostly Virtuel				
ster, informat	sessment (type, scope, la ion on whether module c based, 15 to 20 hours)			ition offered — if not	every seme-
	offered: Once a year, sum	mer semester			
Allocation of	places				
Additional inf	ormation				
Workload					
60 h					
Teaching cycl	e				
<u>0                                 </u>					
Referred to in	LPOI (examination regu	llations for teaching-d	legree programmes)		
§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)					
Module appea	ars in				
First state exa	mination for the teaching mination for the teaching mination for the teaching	g degree Grundschule g degree Realschule N	Didactics in Mather Nathematics (2015)		ool) (2015)
First state exa	mination for the teaching mination for the teaching	,		athematics (Primary	School)

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	e title				Abbreviation
		<b>Didactics of Mathematic</b>	s (virtual course)		10-M-VHBEx-152-m01
Module	o coord	inator		Module offered by	
		es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS	1	od of grading	Only after succ. com		141105
2		successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
the Ers as basi	tes Sta c guide	atsexamen für Lehramt G elines for answering exan	ymnasium (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.
	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	an)
Ü (2) Course	type: e	Learning, mostly Virtuell	e Hochschule Bayern	(vhb)	
		<b>sessment</b> (type, scope, la ion on whether module ca			tion offered — if not every seme-
		based, 15 to 20 hours) ffered: Once a year, winte	er semester		
Allocat		· ·			
Additio	onal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
§ 22      § 22      § 22	Nr. 2 f)				
Module	e appea	ars in			
First sta First sta First sta	ate exa ate exa ate exa	mination for the teaching mination for the teaching mination for the teaching	g degree Grundschule g degree Realschule N	e Didactics in Mather Nathematics (2015)	matics (Primary School) (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)					
(2015)					athematics (Middle School)
First sta	ate exa		g degree Mittelschule	Didactics in Mather	) natics (Middle School) (2015) ) (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	title				Abbreviation
Basics i	n Scho	ool Geometry (virtual cou	irse)		10-M-VHBGeo-152-mo1
Module	coord	inator		Module offered by	<u> </u>
Dean of	Studie	es Mathematik (Mathema	atics)	Institute of Mathem	natics
		od of grading	Only after succ. com	pl. of module(s)	
		successfully completed		•	
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Content	S				
					hat are prerequisites for the sub Hauptschule, Realschule) in geo
Intende	d learr	ning outcomes			
		as basic knowledge of sc acquainted with the em			of mathematics and its didac- g geometry in school.
Courses	type,	number of weekly conta	ct hours, language —	if other than Germa	an)
Ü (2) Course t	type: e	Learning, mostly Virtuell	e Hochschule Bayern	(vhb)	
		essment (type, scope, la on on whether module ca			ation offered — if not every seme
		ased, 15 to 20 hours) ffered: Once a year, sum	mer semester		
Allocati	on of p	olaces			
Additior	nal info	ormation			
Workloa	ad				
60 h					
Teachin	g cvcl	9			
	<u> </u>				
Referred	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
§ 22    N § 22    N	lr. 2 f)				
§ 22    N		•			
Module					<u>``</u>
First sta	te exa	mination for the teaching mination for the teaching mination for the teaching	g degree Grundschule	Didactics in Mathe	) matics (Primary School) (2015)
		mination for the teaching mination for the teaching			lathematics (Primary School)
First sta (2015)					athematics (Middle School)
First sta	te exa	mination for the teaching mination for the teaching mination for the teaching	g degree Mittelschule	Didactics in Mather	natics (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)

Basics of Mathematics für German Grundschule 2: Geometry and Stochastics (virtual course)         In-M-VHBGuIS-152-m01           Module coordinator         Module offered by           Dean of Studies Mathematik (Mathematics)         Institute of Mathematics           ECTS         Method of grading         Only after succ. compl. of module(s)           2         (not) successfully completed            Duration         Module evel         Other prerequisites           1 semester         undergraduate            Contents         Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application-oriented mathematics (statistics, probability and combinatorics) in Grundschule.           Intended learning outcomes         The students know the subject-related contents in application-oriente mathematics related to statistics, probability and combinatorics, and are able to structure the notions and m thods within a conceptual map. They know strategies for development of understanding of the central notion seemetry and application-oriented mathematics neutral topics of geometry and application-oriented mathematics neutral topics (web, how various field application of geometry and application-oriented mathematics concepts, and are able to perform modelling i dependently.           Course type: elearning, mostly Virtuelle Hochschule Bayern (vhb)           Module (web-based, is to zo hours)           Assessment offered: Once a year, summer semester           Allocation of places	Module	title				Abbreviation		
(virtual course)       Module coordinator       Module coordinator         Module coordinator       Module coordinator       Institute of Mathematics         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           Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application-oriented mathematics (statistics, probability and combinatorics, and are able to structure the notions and methods within a conceptual map. They know the subject-related contents in application-oriented mathematics in elementary school, and are able to structure the notions and methods within a conceptual map. They know strategies for development of understanding of the caretal notion geometry and application-oriented mathematics concepts, and are able to perform modelling i dependently.         Courses (type, number of weekly contact hours, language — if other than German)       0 (2)         Courses (type, number of weekly contact hours, language — if other than German, examination offered — if not every ser ster, information on whether module can be chosen to earn a bonus)         project (web-based, is to zo hours)       Assessment (type, scope, language — if other than German, examination offered — if not every ser ster, information<								
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          Contents           Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application- ented mathematics (statistics, probability and combinatorics) in Grundschule.           Intended learning outcomes            The students know the subject-related contents in geometry in elementary school, and are able to structure the notions and methods within a conceptual map. They know the subject-related contents in application-oriented mathematics related to statistics, probability and combinatorics, and are able to structure the notions and m thods within a conceptual map. They know strategies for development of understanding of the central notion geometry and application-oriented mathematics in elementary school. They are able to assess and value the portance of digital technology with respect to todays and future design of instruction. They know various field application of geometry and application-oriented mathematics (primary School).           Course type: elearning, mostly Virtuelle Hochschule Bayern (vhb)           Method of assessment (type, scope, language — if other than German, examination offered — if not every ser ster, information on whether module can be chosen to earn a bonus) <t< th=""><th></th><th></th><th></th><th></th><th></th><th>10-10-10003-152-1101</th></t<>						10-10-10003-152-1101		
ECTS       Method of grading       Only after succ. compl. of module(s)         2       [not) successfully completed       -         Duration       Module level       Other prerequisites         1 semester       undergraduate       -         Contents       -       -         Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application- ented mathematics (statistics, probability and combinatorics) in Grundschule.       -         Intended learning outcomes       -       -         The students know the subject-related contents in geometry in elementary school, and are able to structure the notions and methods within a conceptual map. They know strategies for development of understanding of the central notion geometry and application-oriented mathematics in elementary school. They are able to assess and value the portance of digital technology with respect to todays and future design of instruction. They know various field application of geometry and application-oriented mathematics concepts, and are able to perform modelling i dependently.         Courses (type, number of weekly contact hours, language — if other than German, examination offered — if not every ser ster, information on whether module can be chosen to earn a bonus)         project (web-based, 15 to 20 hours)       -         Assessment offered: Once a year, summer semester         Allocation of places       -         -       -         Additional information       -	Module	coord	inator		Module offered by	<u></u>		
2       (not) successfully completed	Dean of	fStudie	es Mathematik (Mathema	atics)	Institute of Mathem	natics		
Duration         Module level         Other prerequisites           1 semester         undergraduate            Contents            Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application- ented mathematics (statistics, probability and combinatorics) in Grundschule.           Intended learning outcomes            The students know the subject-related contents in geometry in elementary school, and are able to structure to notions and methods within a conceptual map. They know the subject-related contents in application-oriented mathematics related to statistics, probability and combinatorics, and are able to structure the notions and m thods within a conceptual map. They know strategies for development of understanding of the central notion geometry and application-oriented mathematics in elementary school. They are able to assess and value the optrace of digital technology with respect to todays and future design of instruction. They know various field application of geometry and application-oriented mathematics concepts, and are able to perform modelling i dependently.           Courses (type, number of weekly contact hours, language — if other than German, examination offered — if not every set ster, information on whether module can be chosen to earn a bonus)           project (web-based, 15 to 20 hours)           Assessment offered: Once a year, summer semester           Allocation of places                 Module appears in           Module appears in           First state ex	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
1 semester       undergraduate	2	(not) s	successfully completed					
Contents           Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application- ented mathematics (statistics, probability and combinatorics) in Grundschule.           Intendel learning outcomes           The students know the subject-related contents in geometry in elementary school, and are able to structure the notions and methods within a conceptual map. They know strategies for development of understanding of the central notion geometry and application-oriented mathematics in elementary school. They are able to assess and value the portance of digital technology with respect to todays and future design of instruction. They know various field application or geometry and application-oriented mathematics concepts, and are able to perform modelling i dependently.           Courses (type, number of weekly contact hours, language — if other than German)         0 (2)           Course type: elearning, mostly Virtuelle Hochschule Bayern (vhb)         Method of assessment (type, scope, language — if other than German, examination offered — if not every ser ster, information on whether module can be chosen to earn a bonus)           project (web-based, 15 to 20 hours)         Assessment Conce a year, summer semester           Aldication of places	Duratio	n		Other prerequisites				
Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application- ented mathematics (statistics, probability and combinatorics) in Grundschule. Intended learning outcomes The students know the subject-related contents in geometry in elementary school, and are able to structure the notions and methods within a conceptual map. They know the subject-related contents in application-oriented mathematics related to statistics, probability and combinatorics, and are able to structure the notions and m thods within a conceptual map. They know strategies for development of understanding of the central notion geometry and application-oriented mathematics in elementary school. They are able to assess and value the portance of digital technology with respect to todays and future design of instruction. They know various field application of geometry and application-oriented mathematics concepts, and are able to perform modelling i dependently. 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 ser ster, information on whether module can be chosen to earn a bonus) project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester Allocation of places   Morkload 6 o h Teaching cycle  Referred to in LPO I (examination regulations for teaching-degree programmes) § 22 II Nr. 1 h) Module appears in First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)	1 semes	ster	undergraduate					
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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 sers ster, information on whether module can be chosen to earn a bonus)         project (web-based, 15 to 20 hours)         Assessment offered: Once a year, summer semester         Allocation of places            Additional information            Workload         60 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22 II Nr. 1 h)         Module appears in         First state examination for the teaching degree Grundschule 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 (Primary School)	thods w geomet portanc applica	vithin a ry and ce of di tion of	conceptual map. They k application-oriented ma gital technology with res	now strategies for de thematics in element pect to todays and fu	velopment of unders ary school. They are ture design of instru	standing of the central notions of able to assess and value the im- action. They know various fields of		
<ul> <li>Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)</li> <li>Method of assessment (type, scope, language — if other than German, examination offered — if not every serster, information on whether module can be chosen to earn a bonus)</li> <li>project (web-based, 15 to 20 hours)</li> <li>Assessment offered: Once a year, summer semester</li> <li>Allocation of places</li> <li></li> <li>Additional information</li> <li></li> <li>Workload</li> <li>60 h</li> <li>Teaching cycle</li> <li></li> <li>Referred to in LPO I (examination regulations for teaching-degree programmes)</li> <li>§ 22 Il Nr. 1 h)</li> <li>Module appears in</li> <li>First state examination for the teaching degree Grundschule Mathematics (2015)</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)</li> </ul>			number of weekly conta	ct hours, language —	if other than Germa	iu)		
Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)  Method of assessment (type, scope, language — if other than German, examination offered — if not every sersester, information on whether module can be chosen to earn a bonus) project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester  Allocation of places Additional information Workload 60 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) § 22 II Nr. 1 h) Module appears in First state examination for the teaching degree Grundschule 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 (Primary School)			,					
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Assessment offered: Once a year, summer semester         Allocation of places            Additional information            Workload         60 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22 Il Nr. 1 h)         Module appears in         First state examination for the teaching degree Grundschule 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 (Primary School)         (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 (Primary School)						ition offered — if not every seme-		
Allocation of places            Additional information            Workload         60 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22 II Nr. 1 h)         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) (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 (Primary School) (2015)	• •		-	mer semester				
Additional information            Workload         60 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22 Il Nr. 1 h)         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) (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 (Primary School)         (2015)         First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)			•					
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Workload     60 h     Teaching cycle      Referred to in LPO I (examination regulations for teaching-degree programmes)     § 22 II Nr. 1 h)     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) (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 (Primary School)	Additio	nal inf	ormation					
60 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22    Nr. 1 h)         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) (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 (Primary School)								
60 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22    Nr. 1 h)         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) (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 (Primary School)	Worklo	ad						
Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22 II Nr. 1 h)         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) (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 (Primary School) (2015)         First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)		-						
Referred to in LPO I (examination regulations for teaching-degree programmes)         § 22 II Nr. 1 h)         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) (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 (Primary School)         (2015)         First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)		ng cvcl	6					
<ul> <li>§ 22 II Nr. 1 h)</li> <li>Module appears in</li> <li>First state examination for the teaching degree Grundschule Mathematics (2015)</li> <li>First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)</li> </ul>		5 / 1						
<ul> <li>§ 22 II Nr. 1 h)</li> <li>Module appears in</li> <li>First state examination for the teaching degree Grundschule Mathematics (2015)</li> <li>First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)</li> <li>First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)</li> </ul>	Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)			
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) (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 (Primary School) (2015)         First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)	·							
First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (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 (Primary School)			urs in					
First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School)	First sta First sta First sta	ate exa	mination for the teaching mination for the teaching	g degree Grundschule	Didactics in Mather	matics (Primary School) (2015)		
exchange program Mathematics (2023)	First sta (2020 (	Prüfun	gsordnungsversion 2015)	))	gogik Didactics in M	athematics (Primary School)		

Module	e title			Abbreviation	
Mather	natics in grade 10 (virtual cou	rse)		10-M-VHBM10-152-	m01
Module	e coordinator		Module offered by	<u> </u>	
	f Studies Mathematik (Mather	natics)	Institute of Mathem	atics	
ECTS	Method of grading	Only after succ. con		lutics	
2	(not) successfully completed				
Duratio		Other prerequisites			
1 seme					
Conten					
			ntachula Baalachul	and Cumpacium	
	opics on teaching mathematic	s in tenth grade in Hau	ptschule, Realschul	e and Gymnasium.	
	ed learning outcomes				
schule,	dent learns basic topics in the as well as the related mathen technologies for teaching mat	natical backgrounds ar	nd proofs. He/She is		
Course	<b>s</b> (type, number of weekly con	tact hours, language –	- if other than Germa	n)	
Ü (2)					
Course	type: eLearning, mostly Virtue	elle Hochschule Bayern	(vhb)		
	<b>d of assessment</b> (type, scope, formation on whether module			tion offered — if not	every seme
	(web-based, 15 to 20 hours) ment offered: Once a year, su	nmer semester			
Allocat	ion of places				
Additio	onal information				
Worklo	ad				
60 h					
Teachi	ng cycle				
Referre	d to in LPO I (examination reg	gulations for teaching-o	degree programmes)		
§ 22      § 22      § 22	Nr. 2 f)				
	e appears in				
	ate examination for the teaching	ng degree Grundschule	Mathematics (2015	)	
	ate examination for the teaching				ool) (2015)
	ate examination for the teaching				
	ate examination for the teaching				C.L.
First sta (2015)	ate examination for the teaching	ng degree Sonderpäda	gogik Didactics in M	atnematics (Primary	School)
-	ate examination for the teachi	ng degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
-	ate examination for the teaching	ng degree Mittelschule	Mathematics (2015)	)	
	ate examination for the teachi		-		ol) (2015)
	ate examination for the teachi				
	ate examination for the teaching				version
	ädagogik Didactics in Mathematics (Pri- 01) (2015)		ated 18-Apr-2025 • exam. reg (Grundschule-Didaktikfach)		page 28 / 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	
Mathen	natics 1 (virtual course)			10-M-VHBMa1-152-	m01
Module	coordinator		Module offered by	<u> </u>	
	f Studies Mathematik (Mathema	atics)	Institute of Mathem	atics	
ECTS	Method of grading	Only after succ. com			
2	(not) successfully completed				
Duratio		Other prerequisites			
1 semes					
Content		<u> </u>			
			,.		
fundam	sion of basic topics on teaching ientals concerning the organisa		mnasium, în particu	lar verbal and subje	ct-specific
Intende	ed learning outcomes				
	dent is able to discuss selected ering both subject-related and n		s on teaching mathe	matics at German G	ymnasium,
Courses	<b>s</b> (type, number of weekly conta	ct hours, language –	· if other than Germa	n)	
Ü (2)					
• •	type: eLearning, mostly Virtuell	e Hochschule Bayern	(vhb)		
	l of assessment (type, scope, la formation on whether module ca			tion offered — if not	every seme
	(web-based, 15 to 20 hours) ment offered: Every two years, v	vinter semester			
	ion of places				
•	nal information				
Additio	natinformation				
 Workloa	ad				
60 h					
Teachin	ng cycle				
Poforro	d to in LPO I (examination regu	lations for toaching a	logroo programmoc)		
-			legree programmes)		
§ 22    N § 22    N	Nr. 2 f)				
§ 22    N Module	appears in				
		r degree Grundschulz	Mathematics (2015	)	
	ate examination for the teaching ate examination for the teaching				) (2015)
	ate examination for the teaching			natics (i ninary Sch	,01) (2015)
	ate examination for the teaching		_		
	ate examination for the teaching			athematics (Primarv	School)
(2015)		,			
	ate examination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
(2015)					
	ate examination for the teaching				
	te examination for the teaching				ol) (2015)
	te examination for the teaching		-		
	ate examination for the teaching	g degree Mittelschule	Mathematics (2020	(Prüfungsordnungs	version
2015))					
A Sonderpa	ädagogik Didactics in Mathematics (Pri-	JMU Würzburg • genera	ated 18-Apr-2025 • exam. reg	. data record Lehr-	page 30 / 35
nary Schoo	l) (2015)	amt Sonderpädagogik	(Grundschule-Didaktikfach) /	Mathematik - 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 tit	le			Abbreviation	
Mathemati	ics 2 (virtual course)			10-M-VHBMa2-152-	m01
Module co	ordinator		Module offered by	<u> </u>	
	udies Mathematik (Mathema	atics)	Institute of Mathem	atics	
	ethod of grading	Only after succ. com		lutics	
	ot) successfully completed				
Duration	Module level	Other prerequisites			
1 semester					
	undergraduate				
Contents	6				
bilities of i	of central topics on teachin mplementation in the classr		lymnasium, in partic	ular didactic analyse	es and possi
Intended le	earning outcomes				
	nt is able to discuss and ana n from a didactical point of v		and questions on tea	ching mathematics	at German
Courses (ty	/pe, number of weekly conta	ct hours, language –	if other than Germa	n)	
Ü (2)					
• •	e: eLearning, mostly Virtuell	e Hochschule Bayern	(vhb)		
	assessment (type, scope, la nation on whether module ca			tion offered — if not	every seme
	eb-based, 15 to 20 hours) nt offered: Every two years, s	ummer semester			
Allocation	of places				
	<b>F</b>				
Additional	information				
Auditionat					
 Workload					
60 h					
Teaching c	vcle	·			
Poforrod to	o in LPO I (examination regu	lations for toaching	logroo programmoc)		
-	-				
§ 22    Nr. 1 § 22    Nr. 2 § 22    Nr. 3	2 f)				
Module ap					
	examination for the teaching	degree Grundschuld	Mathematics (2015	)	
	examination for the teaching	-			)))(2015)
	examination for the teaching	-			(201)
	examination for the teaching	-	_		
	examination for the teaching	- ,		athematics (Primary	School)
(2015)			-	. ,	
	examination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Middle	School)
(2015)					
	examination for the teaching	-			
	examination for the teaching	-			ol) (2015)
	examination for the teaching	- ,	-		
	examination for the teaching	g aegree Mittelschule	Mathematics (2020	(Prutungsordnungs	version
2015))					
	ogik Didactics in Mathematics (Pri-		ated 18-Apr-2025 • exam. reg		page 32 / 35
ary School) (20	015)	amt Sonderpädagogik	(Grundschule-Didaktikfach) I	Mathematik - 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	
Stocha	stics in Sekundarstufe I (virtual	course)		10-M-VHBSto-152-n	101
Madula	e coordinator		Madula offered by		
			Module offered by		
	f Studies Mathematik (Mathema	r <sup>′</sup>	Institute of Mathem	latics	
ECTS	Method of grading	Only after succ. con	npl. of module(s)		
2	(not) successfully completed				
Duratio		Other prerequisites			
1 seme					
Conten	its				
	on and consolidation of the fund		chastics that are pre	erequisites for the su	ıbject-speci-
fic and	didactic courses in stochastics				
Intend	ed learning outcomes				
	udent has basic knowledge of st				
tics.He	/She is acquainted with the em	ployment of new tech	nologies for teachin	g stochastics in sch	ool.
Course	<b>s</b> (type, number of weekly conta	act hours, language –	- if other than Germa	n)	
Ü (2)					
Course	type: eLearning, mostly Virtuell	e Hochschule Bayern	(vhb)		
	<b>d of assessment</b> (type, scope, la			tion offered $-$ if not	every seme
ster, in	formation on whether module c	an be chosen to earn	a bonus)		
	t (web-based, 15 to 20 hours)				
Assess	ment offered: Once a year, wint	er semester			
Allocat	tion of places				
Additio	onal information	-			
Worklo		-			
60 h					
Teachi	ng cycle				
Referre	ed to in LPO I (examination regu	lations for teaching-	degree programmes)		
§ 22	Nr. 1 h)				
§ 22					
§ 22					
Module	e appears in				
First sta	ate examination for the teaching	g degree Grundschule	Mathematics (2015	)	
	ate examination for the teaching			natics (Primary Scho	ool) (2015)
	ate examination for the teaching				
	ate examination for the teaching				
	ate examination for the teaching	g degree Sonderpäda	gogik Didactics in M	athematics (Primary	School)
(2015) First st	ato avamination for the teaching	r dogroo Condana	andik Didnatisa in M	athomatics (Middle	School
First sta (2015)	ate examination for the teaching	g degree Sonderpada	gogik Didactics in M	athematics (Middle	SCN001)
-	ate examination for the teaching	o degree Mittelschule	Mathematics (2015)		
	ate examination for the teaching				ol) (2015)
	ate examination for the teaching				2013)
	ate examination for the teaching		-		version
2015))		,			
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First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)