

Subdivided Module Catalogue for the Subject

Didactics in Chemistry (Middle School)

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

> Examination regulations version: 2015 Responsible: Faculty of Chemistry and Pharmacy

JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record L6|863|-|-|H|2015

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)):

08-Sep-2015 (2015-129)

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	Method of	
ADDIEVIALIOII	Module litte	credits	grading	page
Compulsory Courses (20 EC	TS credits)			
cus on teaching methodolog	odules worth 20 ECTS credits in each subject selected as Didaki gy) is a prerequisite for admission to the Erste Staatsprüfung (Fi gruppe der Mittelschule (Didactics of a Group of Subjects of Mit	rst State Ex	oject studied w amination) in t	ith a fo- he sub-
08-FD1-DF-LAGM-152-m01	Introduction into Teaching Chemistry for Elementary, Seconda		NUM	8
08-FD1-DF-LAGM-152-1101	ry and Middle School (Major Subject)	5	NOM	0
08-FD2-LAGM-152-m01	Teaching Chemical Practice for Elementary and Secondary	-	NUM	
08-FD2-LAGM-152-1101	School	5	NUM	9
08-FD3-DF-LAGM-152-m01	Designing Chemistry Classes for Elementary and Secondary	_	NUM	10
08-FD3-DF-LAGM-152-1101	School	5	NUM	10
08-FD4-DF-LAMS-152-m01	Social Aspects of Chemistry Teaching in Secondary School	5	B/NB	11
Freier Bereich (general as we	ll as subject-specific electives)			
Freier Bereich interdisciplin nex "Ergänzende Bestimmun	per 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 Le stry at the German Mittelschule	can be four	nd in the respe	ctive An
-	/ell as subject-specific electives) subject specific)			
08-AC1-152-m01	Principles of Inorganic Chemistry	8	NUM	6
08-0C1-LAGMR-152-m01	Organic Chemistry 1 (teaching degree for secondary schools)	6	NUM	28
08-0C2-VL-152-m01	Organic Chemistry 2	6	NUM	30
08-PC-LAGMR-152-m01	Physical Chemistry (teaching degree for secondary schools)	6	NUM	32
03-TR-152-m01	Toxicology and legal studies	3	NUM	4
08-FD-LLL-152-m01	Chemistry SchoolLabs	2	B/NB	19
08-FD-CAS-152-m01	Collecting Data with CASSY System	2	B/NB	13
08-FD-MS-152-m01	Microscale Experiments in Chemistry Teaching	2	B/NB	27
08-FD-ASL-152-m01	Out-Of-School Education	2	B/NB	12
Paper (10 ECTS credits)				

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 title					Abbreviation	
Toxico	logy an	d legal studies			03-TR-152-m01	
Module	e coord	inator		Module offered by		
lecture	r of lect	ture "Toxikologie und Rec	htskunde"	Faculty of Medicine		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
3	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
Basics toxicol	-	l regulations for chemists	s (handling and trans	portation of hazardo	ous materials), funda	mentals of
Intend	ed learı	ning outcomes				
		master the basics of lega s the fundamentals of tox		nists (handling and t	ransport of hazardo	us substan-
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
V (1) +						
		s essment (type, scope, la on on whether module ca			tion offered — if not	every seme-
written	examiı	nation (approx. 90 minut	es)			
Allocat	ion of p	olaces				
Additio	onal info	ormation				
		2 para. 2 sentence 2 AP he APOLmCh and No. 5 a			er g) and i) and No. II	l 1st letter d)
Worklo	ad					
90 h						
Teachi	ng cycl	e				
Referre	d to in	LPOI (examination regu	lations for teaching-	degree programmes)		
§ 22						
§ 22	,					
§ 22						
	e appea					
		gree (1 major) Biochemis [.] gree (1 major) Chemistry				
		gree (1 major) Chemistry gree (1 major) Food Chem				
				Chemistry (2015)		
First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015)						
First state examination for the teaching degree Realschule Chemistry (2015)						
First state examination for the teaching degree Gymnasium Chemistry (2015)						
		mination for the teaching			nemistry (Middle Sch	100l) (2015)
First st	ate exa	mination for the teaching	g degree Mittelschule	Chemistry (2015)		
		mination for the teaching	-	Didactics in Chemis	try (Middle School) ((2015)
	-	ee (1 major) Chemistry (2				
		gree (1 major) Food Cherr	•			
		gree (1 major) Biochemis				
•		gree (1 major) Chemistry	-			
LA Sonder School) (20		Didactics in Chemistry (Middle		ated 18-Apr-2025 • exam. reg ik (Mittelschule-Didaktikfach		page 4 / 32

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Subdivided Module Catalogue for the Subject Didactics in Chemistry (Middle School) LA Sonderpädagogik

Master's degree (1 major) Chemistry (2018)

Bachelor's degree (1 major) Food Chemistry (2019)

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

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

Bachelor's degree (1 major) Food Chemistry (2021)

Bachelor's degree (1 major) Biochemistry (2022)

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

Bachelor's degree (1 major) Food Chemistry (2025)

Module t			_	Abbreviation	
Principle	s of Inorganic Chemistry			08-AC1-152-m01	
Module coordinator			Module offered by		
lecturer c	of lecture "Experimentalchem	ie" (Experimental	Institute of Inorgan	ic Chemistry	
Chemistr	y)				
	Method of grading	Only after succ. cor	npl. of module(s)		
8 n	numerical grade				
Duration		Other prerequisites	5		
1 semest	er undergraduate				
Contents	; 				
rial and p	ule provides an overview of t particle level, metals, acid-ba on, the module introduces fu	se reactions, the peri	odic table, chemical	equilibrium and con	nplexometry.
Intended	learning outcomes				
cient in b actions u	ent understands the principle basic models of the structure Ising typical chemical formul ow how the most important o	of matter and can des a language and interp	scribe them properly. ret them by identifyi	He/she can depict on the second se	chemical re- on. The stu-
Courses	(type, number of weekly cont	act hours, language -	– if other than Germa	ın)	
V (4) + V	(2)				
ster, info a) writter	of assessment (type, scope, rmation on whether module n examination (approx. 90 to	can be chosen to earr 180 minutes) or	a bonus)	tion offered — if not	every seme-
c) oral ex d) log (ap e) preser	kamination of one candidate camination in groups of up to oprox. 20 pages) or ntation (approx. 30 minutes) e of assessment: German and	3 candidates (approx	-	didate) or	
Allocatio	n of places				
Addition	al information				
	g to § 2 para. 2 sentence 2 A 1 of annex 2 to the APOLmCh	POLmCh in conjunctio	n with No. I 2nd lette	er a) of annex 1 to the	e APOLmCh
Workload	d				
240 h					
Teaching	; cycle				
		_			
Referred	to in LPO I (examination reg	ulations for teaching-	degree programmes)		
§ 42 Nr. § 62 Nr.	1 and § 22 Nr. 1 h) 1				
Module a	appears in				
Bachelor First state First state	's degree (1 major) Biochemi 's degree (1 major) Chemistry e examination for the teachir e examination for the teachir	y (2015) ng degree Grundschul ng degree Grundschul	e Didactics in Chemis	stry (Primary School)) (2015)
First state	e examination for the teachir	ng degree Realschule	Chemistry (2015)		

First state examination for the teaching degree Gymnasium Chemistry (2015)

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

First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) Bachelor's degree (1 major) Biochemistry (2017)

Bachelor's degree (1 major) Chemistry (2017)

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

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

Bachelor's degree (1 major) Food Chemistry (2021)

Bachelor's degree (1 major) Biochemistry (2022)

Bachelor's degree (1 major) Food Chemistry (2025)

Module	title				Abbreviation
Introdu	ction into	Feaching Chem	istry for Elementary, S	econdary and Middle	08-FD1-DF-LAGM-152-m01
School	(Major Sul	oject)			
Module	coordinat	or		Module offered b	y
holder (of the Profe	essorship of Dic	lactics of Chemistry	Institute of Inorga	anic Chemistry
ECTS	Method o	fgrading	Only after succ.	compl. of module(s)	
5	numerical	grade			
Duratio	n Mo	dule level	Other prerequis	sites	
1 semes	ster unl	known			
Content	ts				
No info	rmation on	contents availa	able.		
		outcomes			
		learning outco	mes available.		
		_		ge — if other than Gerr	nan)
V (2) + 9		inder of weekty			
· · · ·	- · · .	mant (tuna caa	no longuago if othe	athan Carman ayami	nation offered — if not every sem
		ment (type, sco	ppe, language — if othe	er than German, exami	nation otteren — it not everv sem
a) writte	en examina	ation (approx. 9	lule can be chosen to	earn a bonus)	minutes) with practical examinat
a) writte (superv Langua	en examina ision of pu	ation (approx. 9 pils) ssment: Germai	lule can be chosen to	earn a bonus)	
a) writte (superv Langua	en examina ision of pu ge of asses	ation (approx. 9 pils) ssment: Germai	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati	en examina ision of pu ge of asses	ation (approx. 9 pils) ssment: German e s	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati	en examina ision of pu ge of asses ion of plac e	ation (approx. 9 pils) ssment: German e s	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati Additio	en examina ision of pu ge of asses ion of place nal inform	ation (approx. 9 pils) ssment: German e s	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati Additio Workloa	en examina ision of pu ge of asses ion of place nal inform	ation (approx. 9 pils) ssment: German e s	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati Additio Workloa 150 h	en examina ision of pu ge of asses ion of place nal inform ad	ation (approx. 9 pils) ssment: German e s	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati Additio Workloa	en examina ision of pu ge of asses ion of place nal inform ad	ation (approx. 9 pils) ssment: German e s	dule can be chosen to o minutes) and b) pre	earn a bonus)	
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin	en examina ision of pu ge of asses ion of place nal inform ad	ation (approx. 9 pils) ssment: German es ation	dule can be chosen to o minutes) and b) pre n and/or English	earn a bonus) sentation (approx. 20	ninutes) with practical examinat
a) writte (superv Langua Allocati Addition Workloa 150 h Teachin Referre	en examina ision of pu ge of asses ion of place nal inform ad ng cycle d to in LPC	ation (approx. 9 pils) ssment: German es ation	dule can be chosen to o minutes) and b) pre n and/or English	earn a bonus)	ninutes) with practical examinat
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin Referre § 36 I N	en examina ision of pu ge of asses ion of place nal inform ad ng cycle d to in LPC r. 7	ation (approx. 9 pils) ssment: German es ation	dule can be chosen to o minutes) and b) pre n and/or English	earn a bonus) sentation (approx. 20	ninutes) with practical examinat
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin Referre § 36 N § 38 N	en examina ision of pu ge of asses ion of place nal inform ad ng cycle d to in LPC r. 7	ation (approx. 9 pils) ssment: German es ation	dule can be chosen to o minutes) and b) pre n and/or English	earn a bonus) sentation (approx. 20	ninutes) with practical examinat
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin Teachin S 36 N § 38 N Module	en examina ision of pu ge of asses ion of place nal inform ad ad d to in LPC r. 7 r. 7 r. 1 e appears in	ation (approx. 9 pils) ssment: German es ation 1 (examination	dule can be chosen to no minutes) and b) pre n and/or English	earn a bonus) sentation (approx. 20 ing-degree programme	ninutes) with practical examinat
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin § 36 N § 38 N § 38 N Module First sta	en examina ision of pu ge of asses ion of place nal inform ad ad d to in LPC r. 7 r. 1 e appears in ate examin	ation (approx. 9 pils) ssment: German es ation 1 (examination n ation for the tea	dule can be chosen to po minutes) and b) pre n and/or English n regulations for teach	earn a bonus) sentation (approx. 20 ing-degree programme chule Didactics in Cher	ninutes) with practical examinations in the second se
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin § 36 N § 38 N Module First sta First sta First sta	en examina ision of pu ge of asses ion of place nal inform ad ad d to in LPC r. 7 r. 1 e appears in ate examin ate examin ate examin	ation (approx. 9 pils) ssment: German es ation • I (examination • I (examination • I ation for the tea ation for the tea ation for the tea	Aule can be chosen to po minutes) and b) pre n and/or English n and/or English n regulations for teach aching degree Grundso aching degree Sonderp aching degree Mittelsc	earn a bonus) sentation (approx. 20 ing-degree programme chule Didactics in Cher pädagogik Didactics in Cher hule Didactics in Cher	ninutes) with practical examinations in the practical examination of the p
a) writte (superv Langua Allocati Additio Workloa 150 h Teachin S 36 I N § 38 I N Module First sta First sta First sta First sta	en examina ision of pu ge of asses ion of place nal inform ad d to in LPC r. 7 r. 1 e appears in ate examin ate examin ate examin ate examin	ation (approx. 9 pils) ssment: German es ation • I (examination • I (examination • I ation for the tea ation for the tea ation for the tea	Aule can be chosen to po minutes) and b) pre n and/or English n and/or English n regulations for teach aching degree Grundso aching degree Sonderp aching degree Mittelsc	earn a bonus) sentation (approx. 20 ing-degree programme chule Didactics in Cher pädagogik Didactics in Cher hule Didactics in Cher	ninutes) with practical examinations in the practical examination of the p

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Module	e title				Abbreviation
Teachi	ng Che	mical Practice for Elem	entary and Seconda	ry School	08-FD2-LAGM-152-m01
Module	e coord	inator		Module offer	red by
holder	of the l	Professorship of Didacti	cs of Chemistry	Institute of Ir	norganic Chemistry
ECTS	Metho	od of grading	Only after succ. o		
5	nume	rical grade			
Duratio	on	Module level	Other prerequisit	tes	
2 seme	ster	unknown			
Conten	ts				
No info	rmatio	n on contents available	•		
Intende	ed lear	ning outcomes			
No info	rmatio	n on learning outcomes	available.		
Course	s (type	, number of weekly con	tact hours, languag	e — if other than	German)
S (2) +	S (2)				
a) pres Langua Allocat	entatio ge of a ion of p nal inf ad	ssessment: German an olaces ormation	ation (approx. 30 m		resentation (approx. 20 minutes)
Referre	d to in	LPOI (examination reg	ulations for teaching	og-degree progra	mmec)
§ 38 N	lr. 1	d § 36 Nr. 7		o degree progra	
Module	e appea	ars in			
First sta First sta First sta First sta First sta fungso First sta	ate exa ate exa ate exa ate exa ate exa ate exa rdnung ate exa	mination for the teachin mination for the teachin mination for the teachin mination for the teachin mination for the teachin sversion 2015))	ng degree Grundsch ng degree Sonderpä ng degree Mittelsch ng degree Mittelsch ng degree Mittelsch ng degree Mittelsch	ule Didactics in (idagogik Didactio ule Chemistry (20 ule Didactics in (ule Chemistry (20 ule Didactics in (Chemistry (Primary School) (2015) cs in Chemistry (Middle School) (2015)

mpl. of module(s	German)
Institute of Ino mpl. of module(s s – if other than G nan German, exa n a bonus)	German)
– if other than G nan German, exa	Serman) amination offered — if not every seme
s — if other than G nan German, exa n a bonus)	German) amination offered — if not every seme
– if other than G nan German, exa n a bonus)	amination offered — if not every seme
– if other than G nan German, exa n a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
ian German, exa 1 a bonus)	amination offered — if not every seme
n a bonus)	
degree program	ımes)
agogik Didactics e Didactics in Ch	hemistry (Primary School) (2015) s in Chemistry (Middle School) (2015) hemistry (Middle School) (2015) hemistry (Middle School) (2020 (Prü-
1	le Didactics in C agogik Didactics le Didactics in C

(Prüfungsordnungsversion 2015))

Modul	e title				Abbreviation
Social	Aspect	s of Chemistry Teaching	in Secondary School		08-FD4-DF-LAMS-152-m01
Modul	e coord	inator		Module offered by	<u> </u>
holder	r of the l	Professorship of Didactic	s of Chemistry	Institute of Inorgan	ic Chemistry
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	·
5	(not)	successfully completed			
Durati	on	Module level	Other prerequisites		
1 seme	ester	unknown			
Conter	nts				
No info	ormatio	n on contents available.			
Intend	led lear	ning outcomes			
No info	ormatio	n on learning outcomes a	available.		
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	in)
S (4)					
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme
		of a project (approx. 30 m			
		ssessment: German and	/or English		
Alloca	tion of _l	places			
Additio	onal inf	ormation			
Worklo	oad				
150 h					
Teachi	ing cycl	e			
Referre	ed to in	LPOI (examination regu	llations for teaching-	degree programmes)	
§ 38	Nr. 1				
Modul	e appea	ars in			
First st First st	tate exa tate exa	mination for the teaching	g degree Mittelschule	Didactics in Chemis	hemistry (Middle School) (2015) stry (Middle School) (2015) stry (Middle School) (2020 (Prü-
First st	tate exa	=	g degree Sonderpäda	gogik Didactics in Cl	hemistry (Middle School) (2020

(Prüfungsordnungsversion 2015))

Module	e title				Abbreviation
Out-Of-School Education 08-FD-ASL-152-m01					08-FD-ASL-152-m01
Module	e coord	inator		Module offered by	
holder	of the I	Professorship of Didactic	s of Chemistry	Institute of Inorgani	c Chemistry
ECTS		od of grading	Only after succ. com	npl. of module(s)	
2	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	unknown			
Conten	ts				
No info	rmatio	n on contents available.			
Intende	ed lear	ning outcomes			
No info	rmatio	n on learning outcomes a	vailable.		
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	n)
S (2)		,			·
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-
		ntation of a project (appr ssessment: German and,			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachir	ng cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
§ 22 § 22 § 22	Nr. 2 f)				
Module	e appea	ins in			
First sta First sta First sta First sta First sta First sta First sta fungson First sta	ate exa ate exa	mination for the teaching mination for the teaching sversion 2015))	g degree Grundschule g degree Realschule O g degree Gymnasium g degree Sonderpäda g degree Mittelschule g degree Mittelschule g degree Mittelschule g degree Mittelschule	e Didactics in Chemis Chemistry (2015) Chemistry (2015) gogik Didactics in Ch Chemistry (2015) Didactics in Chemis Chemistry (2020 (Pr Didactics in Chemis	stry (Primary School) (2015) nemistry (Middle School) (2015) try (Middle School) (2015) üfungsordnungsversion 2015)) try (Middle School) (2020 (Prü- nemistry (Middle School) (2020

Module	e title				Abbreviation	
	Collecting Data with CASSY System 08-FD-CAS-152-m01					
Module	e coord	inator		Module offered by		
holder	of the F	Professorship of Didactics	s of Chemistry	Institute of Inorgani	ic Chemistry	
ECTS	1	od of grading	Only after succ. con			
2	1	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme		unknown				
Conten	ts					
No info	rmatio	n on contents available.				
Intend	ed lear	ning outcomes				
		n on learning outcomes a	vailable.			
		, number of weekly conta		- if other than Germa	n)	
S (2)	- (-)	,			,	
	d of ass	essment (type, scope, la	nguage — if other th	an German, examina	tion offered — if not	everv seme-
		on on whether module ca				,
		of a project (approx. 30 m ssessment: German and,				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
60 h						
Teachi	ng cycl	e				
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)		
§ 22	-					
§ 22	-					
§ 22		•				
Module						
		mination for the teaching				
		mination for the teaching	- ,			
		mination for the teaching	- ,			
		mination for the teaching			<i>.</i>	
		mination for the teaching	- ,		/ (2009)	
		mination for the teaching	- ,	-		
		mination for the teaching			、	
		mination for the teaching	- ,		-	
		mination for the teaching	- ,	-)	
		mination for the teaching				
		mination for the teaching			`	
		mination for the teaching	- ,		-	
		mination for the teaching			(600	
		mination for the teaching				
		mination for the teaching	-	-, ,		
		mination for the teaching			data waard tabu	······
LA Sonderp School) (20		Didactics in Chemistry (Middle		ated 18-Apr-2025 • exam. reg ik (Mittelschule-Didaktikfach		page 13 / 32

Subdivided Module Catalogue for the Subject Didactics in Chemistry (Middle School) LA Sonderpädagogik

UNIVERSITÄT WÜRZBURG

First state examination for the teaching degree Realschule Geography (2009) First state examination for the teaching degree Realschule Protestant Theology (2009) First state examination for the teaching degree Realschule French Studies (2009) First state examination for the teaching degree Realschule German (2009) First state examination for the teaching degree Realschule History (2009) First state examination for the teaching degree Realschule Computer Science (2012) First state examination for the teaching degree Realschule Catholic Theology (2009) First state examination for the teaching degree Realschule Mathematics (2009) First state examination for the teaching degree Realschule Music (2009) First state examination for the teaching degree Realschule Physics (2009) First state examination for the teaching degree Realschule Science of Sport (2009) First state examination for the teaching degree Gymnasium English (2009) First state examination for the teaching degree Gymnasium Biology (2009) First state examination for the teaching degree Gymnasium Chemistry (2009) First state examination for the teaching degree Gymnasium Geography (2009) First state examination for the teaching degree Gymnasium French Studies (2009) First state examination for the teaching degree Gymnasium German (2009) First state examination for the teaching degree Gymnasium History (2009) First state examination for the teaching degree Gymnasium Greek Philology (2009) First state examination for the teaching degree Gymnasium Computer Science (2009) First state examination for the teaching degree Gymnasium Italian Studies (2009) First state examination for the teaching degree Gymnasium Catholic Theology (2009) First state examination for the teaching degree Gymnasium Latin Philology (2009) First state examination for the teaching degree Gymnasium Mathematics (2012) First state examination for the teaching degree Gymnasium Mathematics (2009) First state examination for the teaching degree Gymnasium Music (2009) First state examination for the teaching degree Gymnasium Physics (2009) First state examination for the teaching degree Gymnasium Russian (2009) First state examination for the teaching degree Gymnasium Social Science (2009) First state examination for the teaching degree Gymnasium Spanish Studies (2009) First state examination for the teaching degree Gymnasium Science of Sport (2009) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Secondary Education (2009) First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2013) First state examination for the teaching degree Mittelschule English (2013) First state examination for the teaching degree Mittelschule Biology (2013) First state examination for the teaching degree Mittelschule Chemistry (2013) First state examination for the teaching degree Mittelschule Geography (2013) First state examination for the teaching degree Mittelschule Protestant Theology (2013) First state examination for the teaching degree Mittelschule German (2013) First state examination for the teaching degree Mittelschule History (2013) First state examination for the teaching degree Mittelschule Catholic Theology (2013) First state examination for the teaching degree Mittelschule Mathematics (2013) First state examination for the teaching degree Mittelschule Physics (2013) First state examination for the teaching degree Mittelschule Social Science (2013) First state examination for the teaching degree Mittelschule Science of Sport (2013) First state examination for the teaching degree Realschule English (2015) First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Realschule Geography (2015) First state examination for the teaching degree Realschule Protestant Theology (2015) First state examination for the teaching degree Realschule French Studies (2015) First state examination for the teaching degree Realschule German (2015) LA Sonderpädagogik Didactics in Chemistry (Middle JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehrpage 14 / 32 School) (2015) amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015

First state examination for the teaching degree Realschule History (2015) First state examination for the teaching degree Realschule Computer Science (2015) First state examination for the teaching degree Realschule Catholic Theology (2015) First state examination for the teaching degree Realschule Mathematics (2015) First state examination for the teaching degree Realschule Physics (2015) First state examination for the teaching degree Realschule Science of Sport (2015) First state examination for the teaching degree Gymnasium English (2015) First state examination for the teaching degree Gymnasium Biology (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Gymnasium Geography (2015) First state examination for the teaching degree Gymnasium French Studies (2015) First state examination for the teaching degree Gymnasium German (2015) First state examination for the teaching degree Gymnasium History (2015) First state examination for the teaching degree Gymnasium Greek Philology (2015) First state examination for the teaching degree Gymnasium Computer Science (2015) First state examination for the teaching degree Gymnasium Italian Studies (2015) First state examination for the teaching degree Gymnasium Catholic Theology (2015) First state examination for the teaching degree Gymnasium Latin Philology (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) First state examination for the teaching degree Gymnasium Physics (2015) First state examination for the teaching degree Gymnasium Russian (2015) First state examination for the teaching degree Gymnasium Social Science (2015) First state examination for the teaching degree Gymnasium Spanish Studies (2015) First state examination for the teaching degree Gymnasium Science of Sport (2015) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Middle School) (2015)First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2015)

First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Social Science (Middle School) (2015)

First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2015) First state examination for the teaching degree Mittelschule English (2015)

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

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

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

First state examination for the teaching degree Mittelschule Protestant Theology (2015)

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

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

LA Sonderpädagogik Didactics in Chemistry (Middle	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehr-	page 15 / 32
School) (2015)	amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015	

Subdivided Module Catalogue for the Subject Didactics in Chemistry (Middle School) LA Sonderpädagogik

First state examination for the teaching degree Mittelschule Catholic Theology (2015) First state examination for the teaching degree Mittelschule Mathematics (2015) First state examination for the teaching degree Mittelschule Physics (2015) First state examination for the teaching degree Mittelschule Social Science (2015) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2015) First state examination for the teaching degree Mittelschule Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Art Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Science of Sport (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Music Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Social Science (Middle School) (2015) First state examination for the teaching degree Mittelschule Science of Sport (2015) First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2015) First state examination for the teaching degree Realschule Music (2015) First state examination for the teaching degree Gymnasium Music (2015) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2015) First state examination for the teaching degree Mittelschule Music (2015) First state examination for the teaching degree Gymnasium French Studies (2016) First state examination for the teaching degree Gymnasium Italian Studies (2016) First state examination for the teaching degree Gymnasium Spanish Studies (2016) First state examination for the teaching degree Realschule French Studies (2016) First state examination for the teaching degree Realschule English (2016) First state examination for the teaching degree Gymnasium English (2016) First state examination for the teaching degree Mittelschule English (2016) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2016) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2016) First state examination for the teaching degree Gymnasium Greek Philology (2018) First state examination for the teaching degree Realschule Physics (2018) First state examination for the teaching degree Gymnasium Physics (2018) First state examination for the teaching degree Mittelschule Physics (2018) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Gymnasium Mathematics (2019) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule German (2020 (Prüfungsordnungsversion 2015))

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

First state examination for the teaching degree Mittelschule English (2020 (Prüfungsordnungsversion 2016)) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2020 (Prüfungsordnungsversion 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 Mittelschule Art Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Science of Sport (2020 (Prüfungsordnungsversion 2015))

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

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

First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

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

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

First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (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 Music Education in Middle School (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Gymnasium Physics (2020) First state examination for the teaching degree Realschule Physics (2020) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2020) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2020) First state examination for the teaching degree Mittelschule Physics (2020) First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Sonderpädagogik Didactics in Political and Social Studies (Secondary School) (2020) First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Mittelschule Didactics in Political and Social Studies (Secondary School) (2020) First state examination for the teaching degree Mittelschule Political and Social Studies (2020) First state examination for the teaching degree Gymnasium Political and Social Studies (2020) First state examination for the teaching degree Gymnasium History (2021) First state examination for the teaching degree Realschule History (2021) First state examination for the teaching degree Mittelschule History (2021) First state examination for the teaching degree Gymnasium English (2021) First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021) First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022) First state examination for the teaching degree Gymnasium Russian (2023) First state examination for the teaching degree Gymnasium Mathematics (2023) First state examination for the teaching degree Gymnasium English (2023) First state examination for the teaching degree Realschule English (2023) First state examination for the teaching degree Mittelschule English (2023) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2023) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2023) First state examination for the teaching degree Gymnasium Geography (2023) First state examination for the teaching degree Realschule Geography (2023) First state examination for the teaching degree Mittelschule Geography (2023) First state examination for the teaching degree Gymnasium German (2024) First state examination for the teaching degree Realschule German (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2024) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2024) First state examination for the teaching degree Mittelschule German (2024) First state examination for the teaching degree Mittelschule Music Education in Middle School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2024) First state examination for the teaching degree Gymnasium Latin Philology (2024) First state examination for the teaching degree Gymnasium English (2024) First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Gymnasium History (2024) First state examination for the teaching degree Realschule History (2024) First state examination for the teaching degree Mittelschule History (2024) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2024) First state examination for the teaching degree Gymnasium Greek Philology (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2024) First state examination for the teaching degree Mittelschule Art Education in Middle School (2024)

UNIVERSITÄT

WÜRZBURG

Module title				Abbreviation		
Chemistry SchoolLabs					08-FD-LLL-152-m01	
Module	e coord	inator		Module offered by		
holder	of the F	Professorship of Didactics	s of Chemistry	Institute of Inorgani	ic Chemistry	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	· · · · · · · · · · · · · · · · · · ·	
2	;	successfully completed		• • • •		
Duratio	n	Module level	Other prerequisites			
1 seme		unknown				
Conten	ts					
No info	rmatio	n on contents available.				
Intend	ed lear	ning outcomes				
		n on learning outcomes a	vailable			
				· (, , , , , , , , , , , , , , , , , ,	>	
	s (type	, number of weekly conta	ct hours, language –	- If other than Germa	n)	
P (3)						
		s essment (type, scope, la on on whether module ca			tion offered — if not	every seme-
		nment (successful super ssessment: German and/		in learn-teach-lab, a	pprox. 4 to 6 hours e	ach)
Allocat	ion of r	olaces				
Additio	onal info	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						
Module						
First st	ate exa	mination for the teaching	degree Grundschule	e English (2009)		
		mination for the teaching	•			
		mination for the teaching	-			
		mination for the teaching				
		mination for the teaching	-		/ (2009)	
		mination for the teaching	-	-		
		mination for the teaching				
		mination for the teaching	-			
		mination for the teaching	-		•	
		mination for the teaching	-	-))	
		mination for the teaching	-	-		
		mination for the teaching				
		mination for the teaching				
		mination for the teaching			009)	
		mination for the teaching	- ,			
		mination for the teaching	degree Hauptschule	Biology (2009)		
LA Sonderp School) (20		Didactics in Chemistry (Middle		ated 18-Apr-2025 • exam. reg ik (Mittelschule-Didaktikfach		page 19 / 32

First state examination for the teaching degree Hauptschule Chemistry (2009) First state examination for the teaching degree Hauptschule Geography (2009) First state examination for the teaching degree Hauptschule Protestant Theology (2009) First state examination for the teaching degree Hauptschule German (2009) First state examination for the teaching degree Hauptschule History (2009) First state examination for the teaching degree Hauptschule Catholic Theology (2009) First state examination for the teaching degree Hauptschule Mathematics (2009) First state examination for the teaching degree Hauptschule Music (2009) First state examination for the teaching degree Hauptschule Physics (2009) First state examination for the teaching degree Hauptschule Social Science (2009) First state examination for the teaching degree Hauptschule Science of Sport (2009) First state examination for the teaching degree Realschule English (2009) First state examination for the teaching degree Realschule Biology (2009) First state examination for the teaching degree Realschule Chemistry (2009) First state examination for the teaching degree Realschule Geography (2009) First state examination for the teaching degree Realschule Protestant Theology (2009) First state examination for the teaching degree Realschule French Studies (2009) First state examination for the teaching degree Realschule German (2009) First state examination for the teaching degree Realschule History (2009) First state examination for the teaching degree Realschule Computer Science (2012) First state examination for the teaching degree Realschule Catholic Theology (2009) First state examination for the teaching degree Realschule Mathematics (2009) First state examination for the teaching degree Realschule Music (2009) First state examination for the teaching degree Realschule Physics (2009) First state examination for the teaching degree Realschule Science of Sport (2009) First state examination for the teaching degree Gymnasium English (2009) First state examination for the teaching degree Gymnasium Biology (2009) First state examination for the teaching degree Gymnasium Chemistry (2009) First state examination for the teaching degree Gymnasium Geography (2009) First state examination for the teaching degree Gymnasium French Studies (2009) First state examination for the teaching degree Gymnasium German (2009) First state examination for the teaching degree Gymnasium History (2009) First state examination for the teaching degree Gymnasium Greek Philology (2009) First state examination for the teaching degree Gymnasium Computer Science (2009) First state examination for the teaching degree Gymnasium Italian Studies (2009) First state examination for the teaching degree Gymnasium Catholic Theology (2009) First state examination for the teaching degree Gymnasium Latin Philology (2009) First state examination for the teaching degree Gymnasium Mathematics (2012) First state examination for the teaching degree Gymnasium Mathematics (2009) First state examination for the teaching degree Gymnasium Music (2009) First state examination for the teaching degree Gymnasium Physics (2009) First state examination for the teaching degree Gymnasium Russian (2009) First state examination for the teaching degree Gymnasium Social Science (2009) First state examination for the teaching degree Gymnasium Spanish Studies (2009) First state examination for the teaching degree Gymnasium Science of Sport (2009) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Secondary Education (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2009) First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2013) First state examination for the teaching degree Mittelschule English (2013) First state examination for the teaching degree Mittelschule Biology (2013) First state examination for the teaching degree Mittelschule Chemistry (2013) First state examination for the teaching degree Mittelschule Geography (2013) IMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehr-LA Sonderpädagogik Didactics in Chemistry (Middle page 20 / 32 School) (2015) amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015

Subdivided Module Catalogue for the Subject Didactics in Chemistry (Middle School) LA Sonderpädagogik

First state examination for the teaching degree Mittelschule Protestant Theology (2013) First state examination for the teaching degree Mittelschule German (2013) First state examination for the teaching degree Mittelschule History (2013) First state examination for the teaching degree Mittelschule Catholic Theology (2013) First state examination for the teaching degree Mittelschule Mathematics (2013) First state examination for the teaching degree Mittelschule Physics (2013) First state examination for the teaching degree Mittelschule Social Science (2013) First state examination for the teaching degree Mittelschule Science of Sport (2013) First state examination for the teaching degree Grundschule English (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Grundschule Geography (2015) First state examination for the teaching degree Grundschule German (2015) First state examination for the teaching degree Grundschule Catholic Theology (2015) First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2015) First state examination for the teaching degree Grundschule Physics (2015) First state examination for the teaching degree Grundschule Social Science (2015) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Geography (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Catholic Theology (Primary School) (2015) First state examination for the teaching degree Grundschule Art Education in Primary School (2015) First state examination for the teaching degree Grundschule Didactics in Science of Sport (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Grundschule Music Education in Primary School (2015) First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Social Science (Primary School) (2015) First state examination for the teaching degree Grundschule Science of Sport (2015) First state examination for the teaching degree Realschule English (2015) First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Realschule Geography (2015) First state examination for the teaching degree Realschule Protestant Theology (2015) First state examination for the teaching degree Realschule French Studies (2015) First state examination for the teaching degree Realschule German (2015) First state examination for the teaching degree Realschule History (2015) First state examination for the teaching degree Realschule Computer Science (2015) First state examination for the teaching degree Realschule Catholic Theology (2015) First state examination for the teaching degree Realschule Mathematics (2015) First state examination for the teaching degree Realschule Physics (2015) First state examination for the teaching degree Realschule Science of Sport (2015) First state examination for the teaching degree Gymnasium English (2015) First state examination for the teaching degree Gymnasium Biology (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Gymnasium Geography (2015) First state examination for the teaching degree Gymnasium French Studies (2015) First state examination for the teaching degree Gymnasium German (2015) First state examination for the teaching degree Gymnasium History (2015) LA Sonderpädagogik Didactics in Chemistry (Middle JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehrpage 21 / 32 School) (2015) amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015

First state examination for the teaching degree Gymnasium Greek Philology (2015) First state examination for the teaching degree Gymnasium Computer Science (2015) First state examination for the teaching degree Gymnasium Italian Studies (2015) First state examination for the teaching degree Gymnasium Catholic Theology (2015) First state examination for the teaching degree Gymnasium Latin Philology (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) First state examination for the teaching degree Gymnasium Physics (2015) First state examination for the teaching degree Gymnasium Russian (2015) First state examination for the teaching degree Gymnasium Social Science (2015) First state examination for the teaching degree Gymnasium Spanish Studies (2015) First state examination for the teaching degree Gymnasium Science of Sport (2015) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2015) First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (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 Music Education in Primary School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Geography (Middle School) (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Middle School) (2015)

First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Middle School) (2015)

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

First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Social Science (Middle School) (2015)

First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2015) First state examination for the teaching degree Mittelschule English (2015)

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

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

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

First state examination for the teaching degree Mittelschule Protestant Theology (2015)

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

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

First state examination for the teaching degree Mittelschule Catholic Theology (2015)

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

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

LA Sonderpädagogik Didactics in Chemistry (Middle	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehr-	page 22 / 32
School) (2015)	amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015	

Subdivided Module Catalogue for the Subject Didactics in Chemistry (Middle School) LA Sonderpädagogik

First state examination for the teaching degree Mittelschule Social Science (2015) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2015) First state examination for the teaching degree Mittelschule Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Art Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Science of Sport (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Music Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Social Science (Middle School) (2015) First state examination for the teaching degree Mittelschule Science of Sport (2015) First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2015) First state examination for the teaching degree Grundschule Protestant Theology (2015) First state examination for the teaching degree Grundschule Music (2015) First state examination for the teaching degree Grundschule Didactics in Protestant Theology (Primary School) (2015) First state examination for the teaching degree Realschule Music (2015) First state examination for the teaching degree Gymnasium Music (2015) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Primary School) (2015) First state examination for the teaching degree Mittelschule Music (2015) First state examination for the teaching degree Gymnasium French Studies (2016) First state examination for the teaching degree Gymnasium Italian Studies (2016) First state examination for the teaching degree Gymnasium Spanish Studies (2016) First state examination for the teaching degree Realschule French Studies (2016) First state examination for the teaching degree Grundschule English (2016) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2016) First state examination for the teaching degree Realschule English (2016) First state examination for the teaching degree Gymnasium English (2016) First state examination for the teaching degree Mittelschule English (2016) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2016) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2016) First state examination for the teaching degree Gymnasium Greek Philology (2018) First state examination for the teaching degree Grundschule Physics (2018) First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2018) First state examination for the teaching degree Realschule Physics (2018) First state examination for the teaching degree Gymnasium Physics (2018) First state examination for the teaching degree Mittelschule Physics (2018) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Gymnasium Mathematics (2019) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

LA Sonderpädagogik Didactics in Chemistry (Middle	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehr-	page 23 / 32
School) (2015)	amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015	

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

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

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

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

First state examination for the teaching degree Mittelschule English (2020 (Prüfungsordnungsversion 2016)) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2020 (Prüfungsordnungsversion 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 Mittelschule Art Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Science of Sport (2020 (Prüfungsordnungsversion 2015))

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

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

First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

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

First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (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 Music Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

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

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

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

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

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

First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2020 (Prüfungsordnungsversion 2015))

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

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

First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2020) First state examination for the teaching degree Grundschule Physics (2020)

First state examination for the teaching degree Gymnasium Physics (2020)

First state examination for the teaching degree Realschule Physics (2020)

First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2020) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2020) First state examination for the teaching degree Mittelschule Physics (2020)

First state examination for the teaching degree Grundschule Political and Social Studies (2020) First state examination for the teaching degree Grundschule Didactics in Political and Social Studies (Primary School) (2020)

First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Sonderpädagogik Didactics in Political and Social Studies (Secondary School) (2020)

First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Mittelschule Didactics in Political and Social Studies (Secondary School) (2020)

First state examination for the teaching degree Mittelschule Political and Social Studies (2020)

First state examination for the teaching degree Gymnasium Political and Social Studies (2020)

First state examination for the teaching degree Grundschule History (2021)

First state examination for the teaching degree Gymnasium History (2021)

First state examination for the teaching degree Realschule History (2021)

First state examination for the teaching degree Mittelschule History (2021)

First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2021)

First state examination for the teaching degree Gymnasium English (2021)

First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)

First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2021)

LA Sonderpädagogik Didactics in Chemistry (Middle	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record Lehr-	page 25 / 32
School) (2015)	amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2015	

Subdivided Module Catalogue for the Subject Didactics in Chemistry (Middle School) LA Sonderpädagogik

First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022) First state examination for the teaching degree Gymnasium Russian (2023) First state examination for the teaching degree Gymnasium Mathematics (2023) First state examination for the teaching degree Gymnasium English (2023) First state examination for the teaching degree Realschule English (2023) First state examination for the teaching degree Grundschule English (2023) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2023) First state examination for the teaching degree Mittelschule English (2023) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2023) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2023) First state examination for the teaching degree Gymnasium Geography (2023) First state examination for the teaching degree Realschule Geography (2023) First state examination for the teaching degree Grundschule Geography (2023) First state examination for the teaching degree Mittelschule Geography (2023) First state examination for the teaching degree Grundschule German (2024) First state examination for the teaching degree Gymnasium German (2024) First state examination for the teaching degree Realschule German (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2024) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2024) First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2024) First state examination for the teaching degree Mittelschule German (2024) First state examination for the teaching degree Grundschule Music Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2024) First state examination for the teaching degree Mittelschule Music Education in Middle School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2024) First state examination for the teaching degree Gymnasium Latin Philology (2024) First state examination for the teaching degree Gymnasium English (2024) First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Grundschule History (2024) First state examination for the teaching degree Gymnasium History (2024) First state examination for the teaching degree Realschule History (2024) First state examination for the teaching degree Mittelschule History (2024) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2024) First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2024) First state examination for the teaching degree Gymnasium Greek Philology (2024) First state examination for the teaching degree Grundschule Art Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2024) First state examination for the teaching degree Mittelschule Art Education in Middle School (2024)

Module title				Abbreviation	
Microscale Experiments in Chemistry Teaching				08-FD-MS-152-m01	
Module coordinator				Module offered by	
holder		Professorship of Didactic	· · · · ·	Institute of Inorgan	ic Chemistry
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	unknown			
Conten	ts				
No info	rmatio	n on contents available.			
		ning outcomes	·		
		n on learning outcomes a	vailable		
		, number of weekly conta		if other than Corma	n)
	s (type	, number of weekly colla	ici nours, ianguage —	n other tildli Geillia	11 <i>7</i>
S (2)		· · · · · · · · · · · · · · · · · · ·			
		sessment (type, scope, la on on whether module c			tion offered — if not every seme-
project	: prese	ntation of a project (appr	ox. 30 minutes)		
Langua	ge of a	ssessment: German and	/or English		
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
60 h					
Teachir	ıg cycl	e			
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
§ 22	Nr. 1 h)				
§ 22					
§ 22	Vr. 3 f)				
Module	e appea	ars in			
First state examination for the teaching degree Grundschule Chemistry (2015)					
First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015)					
First state examination for the teaching degree Realschule Chemistry (2015)					
First state examination for the teaching degree Gymnasium Chemistry (2015)					
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015)					
First state examination for the teaching degree Mittelschule Chemistry (2015)					
First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015)					
First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))					
First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prü-					
fungsordnungsversion 2015))					
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2020 (Prüfungsordnungsversion 2015))					
riulun	gsoruf				

	Module title Abbreviation				
Organic Chemistry 1 (teaching degree for secondary schools)				08-0C1-LAGMR-152-m01	
Module coordinator			Module offered by	l	
holder of the Professorship of Organic Chemistry			Institute of Organic	Chemistry	
	ethod of grading	Only after succ. com	pl. of module(s)		
6 ni	umerical grade				
Duration	Module level	Other prerequisites			
1 semeste	r undergraduate				
Contents					
the bondin organic co	ng situation of carbon and in	troduces students to t discusses the fundam	the nomenclature of iental principles of s	of organic chemistry. It examines f simple and moderately complex stereochemistry, substitution, ad	
Intended I	learning outcomes				
of nomeno lecules. Th	clature to determine simple s ney are able to describe and ose, they can analyse and cat	substance names. Stu formulate some of the	dents are able to an e most important rea	re able to use different systems alyse the stereochemistry of mo- actions in organic chemistry. For ions and can use them for simple	
	type, number of weekly conta	oct hours language -	if other than Germa	n)	
V (3) + Ü (2		et nouis, tanguage —		iii <i>)</i>	
-		if other the	n Cormon overning	tion offered if not even come	
	mation on whether module c			tion offered — if not every seme-	
 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 					
Allocation	of places				
Additiona	linformation				
Workload					
180 h					
Teaching	cvcle				
Referred to in LPO I (examination regulations for teaching-degree programmes)					
§ 42 Nr. 2 and § 22 Nr. 1 h)					
Module appears in First state examination for the teaching degree Grundschule Chemistry (2015)					
First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015)					
		g degree Mittelschule	Chemistry (2015)		

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

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

Module title			Abbreviation			
Organic Chemistry 2 08-OC2-VL-152-m01						
Module coordinator				Module offered by		
holder	of the O	Chair of Physically Organi	c Chemistry	Institute of Organic	Chemistry	
ECTS		od of grading	Only after succ. con			
6	· · · · · · · · · · · · · · · · · · ·	rical grade		• • • • •		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	its					
the exa on read	ample o ctions to	f carbonyl compounds, it	t extends the student	s' knowledge of sub	fic reactions of aromatics. Using stitution, elimination and additi- ation and reduction reactions as	
Intend	ed learr	ning outcomes				
bonyl o they ca unknov	compou an plan wn reac	nds. They are able to des and formulate multi-stag tions.	scribe specific reactions and the specific reaction of the syntheses with contain the set of the syntheses with contain the specific reaction of the syntheses with contain the synthes	ons of carbonyls and nplex reaction mech	e the varying reactivity of car- aromatics. For that purpose, anisms and can transfer them to	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
V (3) +	Ü (1)					
 Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus) a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 						
	ion of p					
Additio	nal inf	ormation				
Additional information according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter b) of annex 1 to the APOLmCh and No. 2 of annex 2 to the APOLmCh						
Worklo	ad					
180 h						
Teaching cycle						
		-				
Poforre	d to in	IDOL (avamination ragu	lations for toaching	dograa programmac)		
Referred to in LPO I (examination regulations for teaching-degree programmes)						
§ 42 Nr. 2 and § 22 Nr. 1 h) § 62 Nr. 2						
Module appears in						
Bachelor's degree (1 major) Functional Materials (2015)						
First state examination for the teaching degree Grundschule Chemistry (2015)						
First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015)						
First state examination for the teaching degree Realschule Chemistry (2015)						
First state examination for the teaching degree Gymnasium Chemistry (2015)						
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2015)						
				· · · ·		
LA Sonderp School) (20		Didactics in Chemistry (Middle		ated 18-Apr-2025 • exam. reg ik (Mittelschule-Didaktikfach		

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

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

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

Bachelor's degree (1 major) Food Chemistry (2021)

Bachelor's degree (1 major) Food Chemistry (2025)

Module title					Abbreviation
Physical Chemistry (teaching degree for secondary schools)				s)	08-PC-LAGMR-152-m01
Module coordinator				Module offered by	
			otik Elektrochomie	-	l and Theoretical Chemistry
für Stu	dierenc	le der Biologie, Lebensmi emie GHR"		institute of Enysica	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	numerical grade				
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	Its				
This m	odule d	liscusses the fundamenta	l principles of therm	odynamics, kinetics	and electrochemistry.
Intend	ed lear	ning outcomes			
		e become familiar with the re able to understand and			nics, kinetics and electroche- re and engineering.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
		V (1) + Ü (1)			
Metho	d of ass	sessment (type, scope. la	nguage — if other tha	an German, examina	tion offered — if not every seme
		on on whether module ca			
Langua		n (approx. 30 minutes) ssessment: German and _/ blaces	or English		
Additic	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	ed to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
§ 42 N	Vr. 1 an	d § 22 II Nr. 1 h)			
Modul	e appea	ars in			
First st First st	ate exa ate exa	mination for the teaching	degree Grundschule degree Realschule C	Didactics in Chemis Chemistry (2015)	stry (Primary School) (2015) nemistry (Middle School) (2015)
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015)) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prü- fungsordnungsversion 2015))					
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2020 (Prüfungsordnungsversion 2015))					

LA Sonderpädagogik Didactics in Chemistry (Middle School) (2015)