

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Technology of Functional Materials as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2009

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **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 for the modules in this SFB: Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures: Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the 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 a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

ASPO2007

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

21-Jul-2009 (2009-42) except module o8-PKC-072 which has been replaced by o8-PKC-092

05-Oct-2009 (2009-85)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

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

Compulsory Courses (143 ECTS credits)								
o8-IAC-o62-mo1	Experimental Chemistry, General and analytical laboratory course for engineering students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-IAC-1-o62: V (no information on SWS (weekly contact hours) and course language available)o8-IAC-2-o62: P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-IAC-1-o62: Experimental Chemistry <ul style="list-style-type: none">5 ECTS, Method of grading: numerical gradewritten examination (approx. 90 minutes) Assessment in module component o8-IAC-2-o62: General and analytical Chemistry Lab for engineering students <ul style="list-style-type: none">5 ECTS, Method of grading: (not) successfully completedVortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)					
o8-IOC-o62-mo1	Organic Chemistry for students of medicine, biomedicine, dental medicine, engineering and natural science							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-IOC-1-o72: V (no information on SWS (weekly contact hours) and course language available)o8-IOC-2-o62: P (no information on SWS (weekly contact hours) and course language available)o8-IOC-3-o62: S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-IOC-1-o72: Organic Chemistry for students of medicine, biomedicine, dental medicine, engineering and natural science <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradewritten examination (approx. 60 minutes) Assessment in module component o8-IOC-2-o62: Organic Chemistry Lab for engineering students <ul style="list-style-type: none">4 ECTS, Method of grading: (not) successfully completedVortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)Only after successful completion of module components: o8-IOC-1 Assessment in module component o8-IOC-3-o62: Tutorial on the Organic Chemistry Lab for engineering students <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradewritten examination (60 minutes)					
99-TM-o62-mo1	Fundamentals of Engineering Mechanics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (90 minutes)					

11-MPI3-o62-m01	Mathematics 3 for students of Physics and Engineering							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 120 minutes)						
	other prerequisites	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
11-ENNF1-o62-m01	Introduction to Physics Part 1 for students of Physics Related Minor Subjects							
	ECTS	7	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 120 minutes)						
	Participants and allocation of places	Only as part of pool of general key skills (ASQ): 20 places. Places will be allocated by lot.						
11-ENNF2-o62-m01	Introduction to Physics Part 2 for students of Physics Related Minor Subjects							
	ECTS	7	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 120 minutes)						
	Participants and allocation of places	Only as part of pool of general key skills (ASQ): 20 places. Places will be allocated by lot.						
11-PNNF-o62-m01	Physics Laboratory Course for students of Physics Related Minor Subjects							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) oral test (approx. 15 minutes) during experiment and b) ungraded written examination (approx. 90 minutes)						
	Participants and allocation of places	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.						
o8-BKOLL-o62-m01	Bachelor Thesis' Colloquium							
	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	K (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	final colloquium (60 minutes)						

03-TV-091-m01	Technology of Composite Materials and Technology of Composite Materials laboratory course							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">03-TV-1-091: V (no information on SWS (weekly contact hours) and course language available)03-TV-2-091: P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component 03-TV-1-091: Technology of Composite Materials <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradewritten examination (60 minutes) Assessment in module component 03-TV-2-091: Technology of Composite Materials, laboratory course <ul style="list-style-type: none">2 ECTS, Method of grading: (not) successfully completedoral examination (approx. 15 minutes)					
10-M-TFU1-091-m01	Mathematics 1 for students of Technology of Functional Materials							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (approx. 90 minutes)					
10-M-TFU2-091-m01	Mathematics 2 for students of Technology of Functional Materials							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü + V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (approx. 90 minutes)					

o8-IPC-091-m01	Physical Chemistry for engineering students (lecture and laboratory course)							
	ECTS	18	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-IPC-2-062: V + Ü (no information on SWS (weekly contact hours) and course language available)o8-IPC-1-091: V + Ü (no information on SWS (weekly contact hours) and course language available)o8-IPC-3-091: P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-IPC-2-062: Physical Chemistry 2 (basics of quantum mechanics and spectroscopy) for engineering students Physical Chemistry 2 (basics of quantum mechanics and spectroscopy) for engineering students <ul style="list-style-type: none">8 ECTS, Method of grading: numerical gradewritten examination (approx. 90 minutes) Assessment in module component o8-IPC-1-091: Physical Chemistry 1 (thermodynamics, electrochemistry) for engineering students Physical Chemistry 1 (thermodynamics, electrochemistry) for engineering students <ul style="list-style-type: none">5 ECTS, Method of grading: numerical gradewritten examination (approx. 90 minutes) Assessment in module component o8-IPC-3-091: Physical Chemistry for engineering students, laboratory course <ul style="list-style-type: none">5 ECTS, Method of grading: (not) successfully completedVortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)						
99-EL1-091-m01	Basics of Electronics 1							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (60 minutes)						
99-EL2-091-m01	Basics of Electronics 2							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (60 minutes)						
99-CA-091-m01	Computer-based Construction and Assembly (CAD/CAM)							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes)						
99-IP-091-m01	Laboratory Course on Engineering (mechanical and electrical engineering)							
	ECTS	6	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 15 to 30 pages)						

11-TMS-091-m01	Physical Technology of Material Synthesis. Lecture, exercises							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 120 minutes)						
11-PPT-091-m01	Laboratory course on Physical Technology of Material Synthesis							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) Preparing the experiment will be considered successfully completed if an oral test (duration: approx. 15 minutes) prior to the experiment is passed. b) Performing and evaluating the experiment will be considered successfully completed if a Testat (exam) is passed. An experiment log (approx. 8 pages) is to be prepared. Each component of the assessment (a and b) can be repeated once in the respective semester. Only if both components of the assessment have been successfully completed in the same semester will the module component be considered successfully completed.						
o8-MAM-091-m01	Modern Analytical Methods (lecture and laboratory course)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-MAM-1-091: V (no information on SWS (weekly contact hours) and course language available)o8-MAM-2-091: P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-MAM-1-091: Modern Analytics <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradewritten examination (60 minutes) Assessment in module component o8-MAM-2-091: Modern Analytics (practical course) <ul style="list-style-type: none">2 ECTS, Method of grading: (not) successfully completedVortestate (pre-experiment exams, approx. 15 minutes each), logs (approx. 5 pages each), Nachtestate (post-experiment exams, approx. 15 minutes)						

o8-IOC-o62-mo2	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses			This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-IOC-1-072: V (no information on SWS (weekly contact hours) and course language available)o8-IOC-2-062: P (no information on SWS (weekly contact hours) and course language available)o8-IOC-3-062: S (no information on SWS (weekly contact hours) and course language available)				
	Method of assessment			Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-IOC-1-072: Organic Chemistry for students of medicine, biomedicine, dental medicine, engineering and natural science <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradewritten examination (approx. 60 minutes) Assessment in module component o8-IOC-2-062: Organic Chemistry Lab for engineering students <ul style="list-style-type: none">4 ECTS, Method of grading: (not) successfully completedVortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes each)Other prerequisites: Registration for assessment: as specified. Assessment in module component o8-IOC-3-062: Tutorial on the Organic Chemistry Lab for engineering students <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradewritten examination (60 minutes)Other prerequisites: Registration for assessment: as specified.				
	other prerequisites			By way of exception, additional prerequisites are listed in the section on assessments.				
o8-CT-o91-mo1	Chemical Technology of Material Synthesis. Lecture, exercises							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses			This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-CT-1-091: V (no information on SWS (weekly contact hours) and course language available)o8-CT-2-091: P (no information on SWS (weekly contact hours) and course language available)				
	Method of assessment			Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-CT-1-091: Chemical Technology of Material Synthesis Lecture, exercises <ul style="list-style-type: none">5 ECTS, Method of grading: numerical gradewritten examination (90 minutes) Assessment in module component o8-CT-2-091: Chemical Technology of Material Synthesis Lecture, exercises <ul style="list-style-type: none">5 ECTS, Method of grading: (not) successfully completedVortestate (pre-experiment exams, approx. 15 minutes each), logs (approx. 5 pages each), Nachtestate (post-experiment exams, approx. 15 minutes)				

Compulsory Electives (5 ECTS credits)								
10-I-EPIN-o62-m01	Introduction to computer science of all faculties							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (50 minutes) or oral examination (one candidate each: 20 minutes, groups of 2: 25 minutes, groups of 3: 25 minutes)					
10-I-DB-o72-m01	Data bases							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (50 minutes) or oral examination (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)					
11-N1-o72-m01	Basics of NanostructureTechnology							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (approx. 90 minutes)					
10-M-ODE-o82-m01	Ordinary Differential Equations							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner					
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.					
o8-BC-TF-o62-m01	Biochemistry for students of Technology of Functional Materials							
	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (60 minutes)					
o8-PKC-o92-m01	Programming course for Chemistry Majors							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		practical examination: completion of programming exercises and oral description of algorithms used (length/expenditure of time as specified at the beginning of the course)					

o8-NT-091-m01	Chemically and biologically inspired Nanotechnology for Materials Synthesis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">o8-NT-1-091: V (no information on SWS (weekly contact hours) and course language available)o8-NT-2-091: V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o8-NT-1-091: Chemically and biologically inspired Nanotechnology for Materials Synthesis <ul style="list-style-type: none">2 ECTS, Method of grading: numerical gradeoral examination (approx. 15 minutes) Assessment in module component o8-NT-2-091: From Biomineralisation to biologically inspired Materials Synthesis <ul style="list-style-type: none">3 ECTS, Method of grading: numerical gradeoral examination (approx. 20 minutes)					
o8-BC-TF-o82-m01	Biochemistry for Engineering Majors							
	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (60 minutes)					
o3-TF-FBM-o82-m01	Functional Biomaterials for students of Technology of Functional Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages)					
10-M-FAN-072-m01	Introduction to Functional Analysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner					
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.					
	Referred to in LPO I		§ 73 (1) 1. Mathematik Analysis					

10-M-NM1-082-m01	Numerical Mathematics 1							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
	Referred to in LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik						
10-M-NM2-082-m01	Numerical Mathematics 2							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
	Referred to in LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik						
10-M-PRG-082-m01	Programming course for students of Mathematics and other subjects							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	project in the form of programming exercises (as specified at the beginning of the course) Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Admission prerequisite to assessment: regular attendance (attendance monitored, a maximum of one incident of unexcused absence).						
	Referred to in LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik						

10-M-COM-o82-m01	Computeroriented Mathematics							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	project in the form of programming exercises (as specified at the beginning of the course) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Admission prerequisite to assessment: regular attendance of exercises (attendance monitored, a maximum of one incident of unexcused absence).						
	Referred to in LPO I	§ 73 (1) 5. Mathematik Angewandte Mathematik						
Subject-specific Key Skills (10 ECTS credits)								
o8-FS2-o62-m01	Material Science 2 (the material groups)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (60 minutes)						
o8-FS1-o91-m01	Material Science 1 (basic introduction)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes)						
Thesis (12 ECTS credits)								
o8-BT-o62-m01	Bachelor's Thesis							
	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	no courses assigned						
	Method of assessment	written thesis Language of assessment: German or English						
	other prerequisites	Registration for assessment on a continuous basis as agreed upon with supervisor.						