

## Annex SFB

### Studienfachbeschreibung (subject description, SFB) for the subject 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: 2012

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:

**ASPO2009**

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

**11-Dec-2012 (2012-186)**

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 (123 ECTS credits)							
10-M-FUN12-122-m01	<b>Mathematics 1 and 2 for students of Functional Materials</b>						
	ECTS	18	Duration	2 semester	Method of grading	numerical grade	Modul level undergraduate
	Courses	<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>10-M-FUN12-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-FUN12-2-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>					
	Method of assessment	<p>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.</p> <p><b>Assessment in module component 10-M-FUN12-1-122:</b> Mathematics 1 for students of Functional Materials Mathematics 1 for students of Functional Materials</p> <ul style="list-style-type: none"> <li>10 ECTS, Method of grading: (not) successfully completed</li> <li>written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, approx. 30 minutes)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>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.</li> </ul> <p><b>Assessment in module component 10-M-FUN12-2-122:</b> Mathematics 2 for students of Functional Materials Mathematics 2 for students of Functional Materials</p> <ul style="list-style-type: none"> <li>8 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, approx. 30 minutes)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>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.</li> </ul>					
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.					

11-MPI3-062-m01	<b>Mathematics 3 for students of Physics and Engineering</b>							
	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-ENNF1-062-m01	<b>Introduction to Physics Part 1 for students of Physics Related Minor Subjects</b>							
	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-ENNF2-062-m01	<b>Introduction to Physics Part 2 for students of Physics Related Minor Subjects</b>							
	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-062-m01	<b>Physics Laboratory Course for students of Physics Related Minor Subjects</b>							
	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-IAC-122-m01	Experimental Chemistry, General and analytical Chemistry Lab 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"><li>o8-IAC-1-o62: V (no information on SWS (weekly contact hours) and course language available)</li><li>o8-IAC-2-122: P (no information on SWS (weekly contact hours) and course language available)</li></ul>					
	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.  <b>Assessment in module component o8-IAC-1-o62:</b> Experimental Chemistry <ul style="list-style-type: none"><li>5 ECTS, Method of grading: numerical grade</li><li>written examination (approx. 90 minutes)</li></ul> <b>Assessment in module component o8-IAC-2-122:</b> General and analytical Chemistry Lab for engineering students <ul style="list-style-type: none"><li>5 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes)</li><li>Assessment offered: once a year, summer semester</li><li>Language of assessment: German or English</li><li>Only after successful completion of module components: Successful completion of module component o4-IAC-1 is a prerequisite for participation in module component o8-IAC-2.</li></ul>					

o8-IOC-122-mo1	Organic Chemistry for engineering students							
	ECTS	12	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"><li>• o8-IOC-2-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li><li>• o8-IOC-3-122: P (no information on SWS (weekly contact hours) and course language available)</li><li>• o8-OC1-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available)</li></ul>					
	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.  <b>Assessment in module component o8-IOC-2-122:</b> Organic Chemistry 2 for engineering students Organic Chemistry 2 for engineering students <ul style="list-style-type: none"><li>• 5 ECTS, Method of grading: numerical grade</li><li>• a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li><li>• Language of assessment: German or English</li><li>• Only after successful completion of module components: Successful completion of module component o8-OC1-1 is a prerequisite for participation in module component o8-IOC-2.</li><li>• Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).</li></ul> <b>Assessment in module component o8-IOC-3-122:</b> Organic Chemistry for engineering students (practical course) <ul style="list-style-type: none"><li>• 2 ECTS, Method of grading: (not) successfully completed</li><li>• Vortestate (pre-experiment exams, approx. 15 minutes), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes)</li><li>• Assessment offered: once a year, winter semester</li><li>• Language of assessment: German or English</li><li>• Only after successful completion of module components: Successful completion of module component o8-OC1-1 is a prerequisite for participation in module component o8-IOC-3.</li></ul> <b>Assessment in module component o8-OC1-1-092:</b> Organic Chemistry 1 Organic Chemistry 1 <ul style="list-style-type: none"><li>• 5 ECTS, Method of grading: numerical grade</li><li>• a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li><li>• Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).</li></ul>					
	other prerequisites		By way of exception, additional prerequisites are listed in the section on assessments.					
	Referred to in LPO I		§ 62 (1) 2. Chemie "Organische und Bioorganische Chemie"					

o8-IPC-122-mo1	<b>Physical Chemistry 1 for engineering students</b>							
	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"><li>o8-IPC-2-o62: V + Ü (no information on SWS (weekly contact hours) and course language available)</li><li>o8-IPC-1-o91: V + Ü (no information on SWS (weekly contact hours) and course language available)</li><li>o8-IPC-3-122: P (no information on SWS (weekly contact hours) and course language available)</li></ul>						
	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.  <b>Assessment in module component o8-IPC-2-o62:</b> 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"><li>8 ECTS, Method of grading: numerical grade</li><li>written examination (approx. 90 minutes)</li></ul> <b>Assessment in module component o8-IPC-1-o91:</b> Physical Chemistry 1 (thermodynamics, electrochemistry) for engineering students Physical Chemistry 1 (thermodynamics, electrochemistry) for engineering students <ul style="list-style-type: none"><li>5 ECTS, Method of grading: numerical grade</li><li>written examination (approx. 90 minutes)</li></ul> <b>Assessment in module component o8-IPC-3-122:</b> Physical Chemistry for engineering students, laboratory course <ul style="list-style-type: none"><li>5 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes)</li><li>Assessment offered: once a year, summer semester</li><li>Language of assessment: German or English</li><li>Only after successful completion of module components: Successful completion of the two module components o8-IPC-1 and o8-IPC-2 is a prerequisite for participation in module component o8-IPC-3.</li></ul>						
99-EL1-122-mo1	<b>Basics of Electronics 1</b>							
	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	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
99-EL2-122-mo1	<b>Basics of Electronics 2</b>							
	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	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						

o8-CT-122-mo1	<b>Molecular Materials (Lecture and practical course)</b>							
	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"><li>o8-CT-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li><li>o8-CT-2-122: P (no information on SWS (weekly contact hours) and course language available)</li></ul>					
	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.  <b>Assessment in module component o8-CT-1-122: Molecular Materials (Lecture) Molecular Materials (Lecture)</b> <ul style="list-style-type: none"><li>5 ECTS, Method of grading: numerical grade</li><li>presentation (approx. 30 minutes) and a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes). Should a module component comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise specified; should the lecturer want to make changes to the way in which assessments are weighted, he or she must do so by two weeks after the start of the course at the latest and must communicate this to students in an appropriate manner.</li><li>Language of assessment: German or English</li><li>Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).</li></ul> <b>Assessment in module component o8-CT-2-122: Molecular Materials (Practical course)</b> <ul style="list-style-type: none"><li>5 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each)</li><li>Assessment offered: once a year, winter semester</li><li>Language of assessment: German or English</li><li>Other prerequisites: Admission prerequisite to assessment: regular attendance (minimum 80%) of courses.</li></ul>					
	other prerequisites		By way of exception, additional prerequisites are listed in the section on assessments.					
	Participants and allocation of places		Information on the allocation of places will be listed separately for each module component. <ul style="list-style-type: none"><li>o8-CT-1-122: --</li><li>o8-CT-2-122: Students from the Faculty of Chemistry: no restrictions. Nanostrukturtechnik (Nanostructure Technology): 4. Should there be more than 4 applications from students of Nanostrukturtechnik (Nanostructure Technology), places will be allocated among these applicants as follows: (1) Places will be allocated by lot. (2) Should there be, within one module component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in a standardised procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration. (3) A waiting list will be maintained and places re-allocated as they become available.</li></ul>					



11-TMS-102-m01	Introduction to Functional Materials							
	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) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	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.						
03-FU-Zell-122-m01	Principles of Cell Biology and Tissue Regeneration							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
03-FU-BM-122-m01	Biomaterials							
	ECTS	7	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"><li>03-FU-BM-1-122: V (no information on SWS (weekly contact hours) and course language available)</li><li>03-FU-BM-2-122: P + P (no information on SWS (weekly contact hours) and course language available)</li></ul>						
	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.  <b>Assessment in module component 03-FU-BM-1-122: Biomaterials (Lecture)</b> <ul style="list-style-type: none"><li>5 ECTS, Method of grading: numerical grade</li><li>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul> <b>Assessment in module component 03-FU-BM-2-122: Biomaterials (Practical course and seminar) Biomaterials (Practical course and seminar)</b> <ul style="list-style-type: none"><li>2 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each)</li><li>Assessment offered: once a year, summer semester</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul>						

o8-FU-VP-122-m01	Advanced laboratory course of Functional Materials							
	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	talk (approx. 15 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Where applicable, topic-specific modules/module components as specified by supervisor (cf. Section 12 Subsection 4 FSB (subject-specific provisions)).						
Compulsory Electives (25 ECTS credits)								
Compulsory Electives Mechanical and Electrical Engineering (17 ECTS credits)								
99-TM-122-m01	Basics of Applied 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	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						
99-IP-122-m01	Laboratory Course of 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) 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 (minimum 80%) of courses.						
99-CA-122-m01	Construction, Calculation and Assembly of Technical Products							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + K (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner						

Compulsory Electives Physics (11 ECTS credits)								
11-EIN-092-m01	Introduction to Nanoscience							
	ECTS	6	Duration	2 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. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)					
	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.					
	Participants and allocation of places		Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.					
11-PPT-092-m01	Practical Course 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		Preparing the experiment will be considered successfully completed if an oral test (duration: approx. 15 minutes) prior to the experiment is passed. 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 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. Assessment offered: once a year, winter semester					
	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.					

Compulsory Electives Mathematics and Computer Science (62 ECTS credits)								
10-M-COM-122-m01	Computational Mathematics							
	ECTS	4	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 (type and expenditure of time to be specified by the lecturer at the beginning of the course) 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.						
10-M-DGA-122-m01	Ordinary Differential Equations for other Subjects							
	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 to 180 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.						
10-M-FAA-122-m01	Introduction to Functional Analysis for other Subjects							
	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 to 180 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.						

10-M-NUW-122-mo1	<b>Numerical Mathematics 1 for Econometrics</b>							
	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 to 180 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.					
10-M-NUA-122-mo1	<b>Numerical Mathematics 2 for other Subjects</b>							
	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 to 180 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.					
10-M-PRG-122-mo1	<b>Programming course for students of Mathematics and other subjects</b>							
	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 (type and expenditure of time to be specified by the lecturer at the beginning of the course) 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.					

10-I-DB-102-m01	<b>Databases</b>							
	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. 50 to 60 minutes) if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referred to in LPO I	§ 49 (1) 1. b) Datenbanksysteme und Softwaretechnologie § 69 (1) 1. b) Datenbanksysteme und Softwaretechnologie						
10-I-EIN-111-m01	<b>Introduction to Computer Science for Students of all Faculties</b>							
	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	a) written examination (80 to 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or oral examination in groups of 2 or 3 candidates (30 or 40 minutes respectively)						
	other prerequisites	Admission prerequisite to assessment: academic requirements to be met in exercises as specified at the beginning of the course.						
	<b>Compulsory Electives Chemistry (18 ECTS credits)</b>							
o8-PKC-102-m01	<b>Programming course for Chemistry Major</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S + 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 Language of assessment: German, English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).						
	o8-BC-TF-122-m01	<b>Biochemistry for Students of Functional materials</b>						
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		a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						

o8-PTF2-122-m01	<b>Drug Product Development, Quality assurance and industrialization</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English					
o8-NT-122-m01	<b>Chemically and bio-inspired Nanotechnology for Material Synthesis</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"><li>o8-NT-1-122: V (no information on SWS (weekly contact hours) and course language available)</li><li>o8-NT-2-122: V (no information on SWS (weekly contact hours) and course language available)</li></ul>					
	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.  <b>Assessment in module component o8-NT-1-122:</b> Sol-Gel Chemistry 1: Fundamentals <ul style="list-style-type: none"><li>2 ECTS, Method of grading: numerical grade</li><li>a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li></ul> <b>Assessment in module component o8-NT-2-122:</b> From Biomineralisation to biologically inspired Materials Synthesis <ul style="list-style-type: none"><li>3 ECTS, Method of grading: numerical grade</li><li>a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li></ul>					

Compulsory Electives Medicine (20 ECTS credits)								
03-FU-TV-122-m01	Technology of Composite Materials (Lecture and practical 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"><li>03-FU-TV-1-122: V (no information on SWS (weekly contact hours) and course language available)</li><li>03-FU-TV-2-122: P (no information on SWS (weekly contact hours) and course language available)</li></ul>						
	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.  <b>Assessment in module component 03-FU-TV-1-122: Technology of Composite Materials (Lecture)</b> <ul style="list-style-type: none"><li>3 ECTS, Method of grading: numerical grade</li><li>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul> <b>Assessment in module component 03-FU-TV-2-122: Technology of Composite Materials (Practical course)</b> <ul style="list-style-type: none"><li>2 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each)</li><li>Assessment offered: once a year, summer semester</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul>						
03-FU-FBM-122-m01	Functionalized Biomaterials							
	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"><li>03-FU-FBM-1-122: V (no information on SWS (weekly contact hours) and course language available)</li><li>03-FU-FBM-2-122: P (no information on SWS (weekly contact hours) and course language available)</li></ul>						
	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.  <b>Assessment in module component 03-FU-FBM-1-122: Functionalized Biomaterials (Lecture)</b> <ul style="list-style-type: none"><li>3 ECTS, Method of grading: numerical grade</li><li>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul> <b>Assessment in module component 03-FU-FBM-2-122: Functionalized Biomaterials (Practical course)</b> <ul style="list-style-type: none"><li>2 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes each), logs (approx. 5 pages each)</li><li>Assessment offered: once a year, summer semester</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul>						



o3-FU-PM1-122-mo1	<b>Polymer Chemistry</b>							
	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"><li>o3-FU-PM1-1-122: V (no information on SWS (weekly contact hours) and course language available)</li><li>o3-FU-PM1-2-122: P (no information on SWS (weekly contact hours) and course language available)</li></ul>						
	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.  <b>Assessment in module component o3-FU-PM1-1-122: Polymer Chemistry (Lecture)</b> <ul style="list-style-type: none"><li>3 ECTS, Method of grading: numerical grade</li><li>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul> <b>Assessment in module component o3-FU-PM1-2-122: Polymer Chemistry (Practical course)</b> <ul style="list-style-type: none"><li>2 ECTS, Method of grading: (not) successfully completed</li><li>Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each)</li><li>Assessment offered: once a year, summer semester</li><li>Language of assessment: German, English if agreed upon with the examiner</li></ul>						
o3-FU-TE-122-mo1	<b>Principles of Tissue Engineering</b>							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German, English if agreed upon with the examiner						
Compulsory Electives Additional Qualifications (20 ECTS credits)								
o8-FU-IP1-122-mo1	<b>Industrial Internship (Short)</b>							
	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	written report (approx. 5 to 10 pages) Language of assessment: German, English if agreed upon with the examiner						
o8-FU-APM1-122-mo1	<b>Foreign Studies (Short)</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	report (approx. 2 pages); proof of having completed lab course Language of assessment: German or English; language of the respective placement country where required						
	other prerequisites	Admission prerequisite to assessment: regular attendance of placement.						

o8-FU-WP1-122-mo1	<b>Courses related to Functional Materials outside of the Natural Sciences</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or d) successful completion as certified by lecturer Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Please consult with course advisory service.						
o8-FU-WP2-122-mo1	<b>Courses related to Functional Materials inside of the Natural Sciences</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or d) successful completion as certified by lecturer Language of assessment: German, English if agreed upon with the examiner						
	other prerequisites	Please consult with course advisory service.						
Thesis (12 ECTS credits)								
o8-FU-BT-122-mo1	<b>Bachelor Thesis Functional Materials</b>							
	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module has 2 components; information on courses listed separately for each component. <ul style="list-style-type: none"><li>o8-FU-BT-2-122: K (no information on language and number of weekly contact hours available)</li><li>o8-FU-BT-1-122: A (no information on language and number of weekly contact hours available)</li></ul>						
	Method of assessment	This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole..  <b>Assessment component to module component o8-FU-BT-2-122:</b> Kolloquium zur Bachelor-Arbeit <ul style="list-style-type: none"><li>2 ECTS credits, method of grading: numerical grade</li><li>Abschlusskolloquium mit talk (approx. 20 minutes) and Diskussion (approx. 20 minutes)</li><li>Language of assessment: German or English</li></ul> <b>Assessment component to module component o8-FU-BT-1-122:</b> Bachelor-Arbeit <ul style="list-style-type: none"><li>10 ECTS credits, method of grading: numerical grade</li><li>written thesis (approx. 20-40 pages)</li><li>Language of assessment: German or English</li><li>Other prerequisites: Where applicable, topic-specific modules/module components as specified by supervisor (cf. Section 12 Subsection 4 FSB (subject-specific provisions)).</li></ul>						
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.						
	Additional Information	Additional information listed separately for each module component. <ul style="list-style-type: none"><li>o8-FU-BT-1-122: Additional information on module duration: 8 weeks.</li><li>o8-FU-BT-2-122: --</li></ul>						

Subject-specific Key Skills (15 ECTS credits)								
o8-FS1-122-m01	Material Science 1 (basic introduction)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
o8-FS2-122-m01	Material Science 2 (the material groups)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
o8-MAM-122-m01	Modern Bio Analytical Methods							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module has 2 components; information on courses listed separately for each component. <ul style="list-style-type: none"><li>o8-MAM-1-122: V (no information on language and number of weekly contact hours available)</li><li>o8-MAM-2-122: P (no information on language and number of weekly contact hours available)</li></ul>						
	Method of assessment	This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole..  <b>Assessment component to module component o8-MAM-1-122: Moderne Bio-Analytik</b> <ul style="list-style-type: none"><li>3 ECTS credits, method of grading: numerical grade</li><li>a) 1-3 written examinations (1 written examination: approx. 90 minutes, 2 written examinations: approx. 60 or 90 minutes each, 3 written examinations: approx. 60 minutes each) or b) oral examination of on candidate each (approx. 20 minutes) or c) oral examination in groups (groups of two, approx. 30 minutes).</li><li>Language of assessment: German or English</li></ul> <b>Assessment component to module component o8-MAM-2-122: Praktikum zu Moderne Bio-Analytik</b> <ul style="list-style-type: none"><li>2 ECTS credits, method of grading: (not) successfully completed</li><li>Vortestate (je approx. 15 minutes) and logs (je approx. 5 pages)</li><li>Assessment offered once a year, summer semester.</li><li>Language of assessment: German or English</li></ul>						