Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Biofabrication as a Master's with 1 major

with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2015

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:

ASPO2015

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

13-Jul-2015 (2015-21)

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 (80 ECTS credits)								
Theoretical Basics of Biofabrication (20 ECTS credits)								
03-PM2-152-m01	**Polymers II**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) + Ü (1)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German and/or English					
03-BIO-FAB-152-m01	**Biofabrication**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + Ü (1) Module taught in: V, Ü: English					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: English					
08-PCM5-152-m01	**Physical chemistry of supramolecular assemblies**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) + Ü (1)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English					
03-SP1A2-152-m01	**Fundamentals of Tissue Engineering and Quality Management**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English					
Pratical Biofabrication (60 ECTS credits)								
08-BFFP1-152-m01	**BioFab Research-Thesis 1**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0)					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English					

08-BFFP2-152-m01	**BioFab Research-Thesis 2**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0)					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English					
Compulsory Electives Theoretical Biofabrication (10 ECTS credits)								
Theoretical Biofabrication (10 ECTS credits)								
03-SP3A1-152-m01	**Carrier materials and devices for therapeutic compounds**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English					
08-SCM1-152-m01	**Supramolecular Chemistry (Basics)**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
03-SP3A2-152-m01	**Microsystems for biological and medicinal Applications**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English					
08-PW1-152-m01	**Polymer Materials 1: Technology of Polymer Modification**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester					

Thesis (30 ECTS credits)								
08-MBF-MT-152-m01	**Master-Thesis Biofabrication**							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		written thesis (approx. 60 pages) Language of assessment: German and/or English					
	Additional Information		Time to complete: 6 months.					
08-MBF-KOLL-152-m01	**Final Colloquium**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		final colloquium (approx. 60 minutes): talk (approx. 30 minutes) with subsequent discussion (approx. 30 minutes) Language of assessment: German and/or English					
Compulsory Courses Practical Biofabrication Double Degree (60 ECTS credits)								
Pratical Biofabrication (60 ECTS credits)								
08-BFFP1-152-m01	**BioFab Research-Thesis 1**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0)					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English					
08-BFFP2-152-m01	**BioFab Research-Thesis 2**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (0)					
	Method of assessment		report on practical course (40 to 60 pages) and talk (approx. 20 to 30 minutes) Language of assessment: German and/or English					
Compulsory Electives Theoretical Biofabrication Double Degree (30 ECTS credits)								
Theoretical Biofabrication (30 ECTS credits)								
03-PM2-152-m01	**Polymers II**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) + Ü (1)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German and/or English					

03-BIO-FAB-152-m01	**Biofabrication**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + Ü (1) Module taught in: V, Ü: English					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: English					
08-PCM5-152-m01	**Physical chemistry of supramolecular assemblies**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) + Ü (1)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English					
03-SP1A2-152-m01	**Fundamentals of Tissue Engineering and Quality Management**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English					
03-SP3A1-152-m01	**Carrier materials and devices for therapeutic compounds**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English					
08-SCM1-152-m01	**Supramolecular Chemistry (Basics)**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
03-SP3A2-152-m01	**Microsystems for biological and medicinal Applications**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) report on practical course (approx. 10 pages) and b) written examination (approx. 90 minutes) or presentation (approx. 30 minutes) Language of assessment: German and/or English					

08-PW1-152-m01	**Polymer Materials 1: Technology of Polymer Modification**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + P (1)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester					
08-VPU-BF-152-m01	**Courses at the partner university (BioFab Master)**							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		No courses assigned to module					
	Method of assessment		Assessments as specified by partner university abroad Language of assessment: German and/or language spoken at partner university abroad					
	other prerequisites		Please consult with course advisory service in advance.					
Thesis (30 ECTS credits)								
08-MBF-MT-152-m01	**Master-Thesis Biofabrication**							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		written thesis (approx. 60 pages) Language of assessment: German and/or English					
	Additional Information		Time to complete: 6 months.					
08-MBF-KOLL-152-m01	**Final Colloquium**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		final colloquium (approx. 60 minutes): talk (approx. 30 minutes) with subsequent discussion (approx. 30 minutes) Language of assessment: German and/or English					