

Module description

Module title					Abbreviation	
Tissue cells meet materials					03-GEWMAT-222-m01	
Module coordinator				Module offered by		
holder of the Chair of Tissue Engineering and Regenerative				Chair of Chemical Technology of Material Synthesis		
Medicine						
ECTS	Meth	od of grading	Only after succ. con	ompl. of module(s)		
5	nume	rical grade				
Duration		Module level	Other prerequisites			
1 semester						
Contents						
al tissues (tissue or also bioengineering), the basics of constructing such models using suitable (bio)materials, the use of such models as alternative test systems to animal experimentation. Another topic is the development of cell-based transplants, medical devices and drugs, as well as the regulatory basis for their approval (REACH, GLP, GMP, etc.).						
Intend	led lear	ning outcomes				
Students will gain content-related and methodological insights into current key topics in tissue engineering as well as the use of these tissues as substitutes for animal models or as transplants in regenerative medicine.						
Courses (type, number of weekly contact hours, language - if other than German)						
V (2) + P (2)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
a) placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: German and/or English						
Allocation of places						
						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appea	ars in				
Maste	r's degr	ee (1 major) Functional <i>I</i>	Materials (2022)			
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Master's degree (1 major) Biofabrication (2025) Master's degree (1 major) Functional Materials (2025)