

Program of Studies:	Master Program Bioinformatics
Name of the module:	NanoBioMaterials 2
Abbreviation:	B-M-8
Subtitle:	-
Modules:	Lecture: 2 h (weekly)
Semester:	2nd semester / every summer semester
Responsible lecturer:	Prof. Dr. Eduard Arzt
Lecturer:	Prof. Dr. Eduard Arzt and group members
Language:	German and English
Level of the unit/ Mandatory or not:	Graduate course / mandatory elective
Total workload:	90 h = 30 h of classes (lecture), 60 h of private study
Credits:	3
Entrance requirements:	None
Aims/Competences to be developed:	<p>The students acquire knowledge in:</p> <ul style="list-style-type: none"> - Economies of scale in materials science - basics and application - Preparative work in materials science - Analytical work in materials science
Content:	<ul style="list-style-type: none"> - Composite materials for optics - Protective layers - PVD/CVD Processes and Biomedical Coatings - Biomineralization - Material-bio-interactions and their biological basis - Materials in biomedicine - Biological materials and biomineralization - Nano-Bio-Analytics
Assessment/Exams	Exam
Grade:	Grade of the exam
Literature:	Will be announced at the beginning of the course