Program of Studies:	**Master Program Bioinformatics**
Name of the module:	**NanoBioMaterials 2 (NanoBioMaterialien 2)**
Abbreviation:	**B-M-8**
Subtitle:	-
Modules:	Lecture: 2 h (weekly)
Semester:	1-2nd semester / every summer semester
Responsible lecturer:	Annette Kraegeloh, Wilfried Weber
Lecturer:	Annette Kraegeloh, Wilfried Weber with INM colleagues
Language:	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:	Knowledge of structure-property relationships of biological materials, principles of biomineralization, structure and function of biological cells and tissues, biomedical nanomaterials, principles of synthetic biology and engineered living materials, materials safety, analysis of materials in biological environments
Content:	• Structure and function of biological materials • Cell and tissue functions • Analysis of materials in biological environment • Biomineralisation and biogenic materials • Biomedical applications of nanomaterials • Synthetic biology and engineered living materials • Materials safety
Assessment/Exams	Exam
Grade:	Grade of the exam
Literature:	Will be announced at the beginning of the course