



## Course Plan Recommendation for Medical Informatics (Master's degree course)

Medical Informatics is the interdisciplinary science of the systematic acquisition, administration, storage, processing and provision of data, information and knowledge in medicine and health care. The MSc degree course in Medical Informatics trains IT experts to obtain qualifications in the fields of medicine, health care and natural sciences by applying principles, concepts and methods of computer science as well as of human medicine and natural sciences.

The present course plan is designed to serve as a helpful orientation for Master's students in Medical Informatics. It is based on the exam regulations effective from 1<sup>st</sup> October 2016.

The main purpose of the present course plan is to provide additional explanations to the exam regulations and recommendations as to which courses may be taken in each respective semester. The Course Plan Example in this document consists of compulsory modules and related areas that can be combined freely. We explicitly encourage students to design their own course of study within the provisions of the exam and study regulations that best suits their interests.

For detailed information regarding studies and exams please check the Department's [Downloads](#) section.

Prerequisites: please check the individual course descriptions.

Language skills: English (Level B2) required, German (Level B2) recommended.

In case of further questions, please contact the study advisor Prof. Nico Pfeifer.

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### Course Plan Recommendation for the MSc Degree Course Medical Informatics

The MSc degree course Medical Informatics comprises the following modules:

Module / Area:		ECTS
MEDZ-RES	Research Practice in Medical Informatics	9
MEDZ-BIOMED	Biomedical Informatics	24
MEDZ-MEDTECH	Medicine-Medical Technology	18
INFO-INFO	Computer Science	18
MEDZ-SEM	Seminar	3
MEDZ-MEDINFO	Advanced Medical Informatics	9
MEDZ-BIOINFO	Advanced Bioinformatics	9
Master Thesis and Presentation		30
<b>Total ECTS:</b>		<b>120</b>

Course Plan Example:

Semester				
1	2	3	4	
Advanced Medical Informatics (9 ECTS)	Medical Data Science (6 ECTS)	Research Project (9 ECTS)	Master Thesis (27 ECTS)	
	Selected Topics in Medical Informatics (9 ECTS)			Seminar (3 ECTS)
Bioimaging (3 ECTS)		Structure and Systems Bioinformatics (9 ECTS)		Nanoanalytics Interfaces I (3 ECTS)
Visualisation of Biological Data (6 ECTS)	Statistical Network Analysis (6 ECTS)			
Intelligent Systems – Reinforcement Learning (6 ECTS)	Biorobotics (6 ECTS)	Sequence Bioinformatics (9 ECTS)		Master Thesis Presentation (3 ECTS)
Total: 30 ECTS				
Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	Total: 30 ECTS	