

Master Study Program Applied Computer Science Module Overview for the Study Field Medical Informatics

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Abbreviations:

Rec. Sem.: It is recommended to take this course in semester #
ECTS: Credit Points
CH: Contact hours per week
KC: This course is accredited as a key competency.

Teaching Mode:

L = Lecture **S** = Seminar **CS** = Computer Seminar
E = Exercise **CC** = Compact Course
SoSe: Summer Term; **WiSe:** Winter Term

Master								
Subject Area Health Informatics								
Compulsory Modules	Content	Lecturers	Offer	Rec. Sem.	ECTS	CH	Mode	KC
M.Inf.1306: Market Analysis¹	Market Analysis	Kuntz, Witte	WiSe	1-2	9	6	S	
M.Inf.1307: Current Topics in Health Informatics	Clinical Decision Support Systems in Medicine	Ritter	WiSe	3	6	4	S	
M.Inf.1308: Journal Club	Journal Club ²	Sax, Yusuf et al.	each semester	1	3	2	S	
Total ECTS from Compulsory Modules in the Subject Area Health Informatics					18			

¹ The module has a duration of two terms.

² Journal Club is offered continuously during as well as outside of lecture periods. Students have to attend 12 sessions during their studies and do two presentations of their own.

Elective Modules	Course Title	Lecturers	Offer	Rec. Sem.	ECTS	CH	Mode	KC
M.Inf.1309: Biomedical Signal and Image Processing	Biomedical Signal and Image Processing	Spicher, Dullin	SoSe	1-3	6	4	L/S	
M.Inf.1304: E-Health	E-Health	Krefting et al.	WiSe	1-3	6	4	CC/S	
M.Inf.1205: Advanced Research Training (Small Scale) – Health Informatics	Advanced Research Training (Small Scale) – Health Informatics	Krefting	each Sem.	2-4	6			
Total ECTS from Elective Modules in the Subject Area Health Informatics					18			
Minimum of ECTS to be gained in the Subject Area Health Informatics					24			

Master								
Subject Area Health Care System								
Compulsory Modules	Course Title	Lecturers	Offer	Rec. Sem.	ECTS	CH	Mode	KC
M.Inf.1351: Work Methods in Health Research	Collaborative Work Methods in Research	Sax	WiSe	1-2	5	3	S	
M.Inf.1355: IT-Management Techniques in Health Care	Economic Aspects of IT-Investments in Health Care	Sax	WiSe	1-2	10	2	V	
	Special Aspects of Project Management in Health Care ³	Kossen	WiSe			2	S	
	Knowledge Management	Kleinoeder, Nußbeck	SoSe			2	CC/S	X
Total ECTS from Compulsory Modules in the Subject Area Health Care System					15			
Elective Modules	Course Title	Lecturers	Offer	Rec. Sem.	ECTS	CH	Mode	KC
M.Inf.1356: Infrastructures for Clinical Research⁴	Personalized Medicine ⁵	Sax et al.	SoSe	1-3	9	2	L	X
	Clinical Trials	Friede, Röver et al.	SoSe			4	S/L	
Total ECTS from Elective Modules in the Subject Area Health Care System					9			
Minimum of ECTS to be gained in the Subject Area Health Care System					24			

³ Prior attendance of the bachelor seminar "Fundamentals of Project Management" is recommended for this course.

⁴ Prior attendance of the bachelor module "Fundamentals of Biomedicine" is strongly recommended.

⁵ This course is accredited in the program for continuous medical education of the State Medical Chamber of Lower Saxony with one educational point per lecture attended.