

Module title		Abbreviation
Medical Informatics		03-TM-MEDINF-181-mo1
Module coordinator		Module offered by
holder of the Chair of Computer Science VI		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Data bases and data structures; creation and utilization of data warehouses; extraction of information and data transfer; ethical and legal aspects.		
Intended learning outcomes		
The students are familiar with the organization of different data base systems and their data structures in the clinical domain (e.g., electronic patient file) and in research. They learn how and for what purposes data warehouses are used (e.g., data mining, decision making, case-based training systems) and how to purposefully build them up. The students acquire technical skills in extracting, transforming, linking, transferring and supplying information. They know the ethical and legal requirements for the capture, processing and the use of data. In particular, they are able to apply the relevant law in a specific context and can adequately handle pseudonymization and anonymization of data.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (1.5) + S (1.5) Module taught in: German or English		
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) Oral examination (approx. 30 minutes) or b) written examination (approx. 60 minutes) Language of assessment: German or English		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Supplementary course Translational Medicine (2018) Master's degree (1 major) Translational Medicine (2018)		