GENERAL INFORMATION								
Course name	Medical Informatics 1							
Course director	Asst. Prof. Ivan Miškulin, F	PhD						
Assistants	Terezija Berlančić, MD							
Study program	Integrated undergraduate and graduate university study							
	program Medical Studies in German							
Course status	Elective							
Year of study,	5 th year, 9 th semester							
semester								
Credits allocated and	ECTS student workload	1						
form of instruction	Number of teaching hours (L	+6+E)	15 (5+0+10)					
COURSE DESCRIPTIC		_+3+C)	15 (5+0+10)					
Course objectives	popping of information tashna	logy modical de	to management theory					
	oncepts of information techno sing, computer communicatior		ata management, theory					
Course requirements	sing, computer communication	rand informing.						
-	quirements for this course ex	cent those defin	ed in the study program					
curriculum.			ed in the study program					
Learning outcomes at	the Programme level							
2.1., 2.2., 2.3., 3.4., 3.5.								
	comes (5-10 learning outcom	les)						
	etion of this course, the studer							
1. Describe and relate basic concepts of information technology								
2. Name and explain the components of a medical record								
3. Analyze the impact of new technologies on the management of medical records and								
electronic health record	S							
	ory requirements for health		stems (interoperability,					
	tection of personal data, qual							
	f information security and pro	tection of persor	nal data					
6. Prepare unformatted medical records								
7. Use applications to collect, process and present medical data8. Search electronic databases containing professional and scientific publications								
		ai and scientific	publications					
9. Manage and present Course content								
	nation technology, medical da	ita management	theory and information					
processing, computer communication and informing. Application of medical informatics procedures. Importance, organization and use of medical language, coding and classification.								
The structure and importance of electronic patient records and health records. Computer								
analysis of biological signals and medical images. The construction and use of medical								
databases and databases with biomedical scientific papers.								
Strategies of management and classification of medical knowledge. Evidence-based medicine.								
Health information systems in primary and hospital health care. Clinical decision support								
systems and their use in treating patients and in acquiring, processing and presenting medical								
knowledge.								
The structure and role of medical models and modeling. Safety and confidentiality of medical								
data.								
		individual as						
	seminars and workshops	multimedia	and Internet					
Form of instruction	⊠exercises	laboratory						

distance learning mentoring activities field course other					oring activities		
Student ob	igations						
Come to cla	ss prepare all forms o				ure for each unit and a te in at least 70% of clas		
Monitoring		rnina					
Attendanc e	participa n	tio x	Seminar paper	x	Experimental work		
Written exam	Oral exa		Essay		Research		
Project	Continuo assessm t		Paper		Practical work	x	
Portfolio							
			f students during cl		n the final exam the final exam. Studer		
students car earned durir Mandatory	n earn a ma Ig classes a reading Medizininfo	ormatik:	of 80 points. The fina e final exam.	l grade rep	of activities. On the final presents the sum of the nd Praxis, Springer View	points	
Additional r							
 van Bemmel JH, Musen MA, editors. Handbook of Medical Informatics. Heidelberg: Springer-Verlag; 1997 Coiera E. Guide to Health Informatics. London: Arnold; 2003 Shortliffe E, Cimino JJ, editors. Biomedical Informatics: Computer Applications in Health Care and Biomedicine. New York: Springer; 2006 							
				proportior	to the number of stu	udents	
currently ta				•			
Title			Number of copies		Number of students		
Dugas M. Medizininformatik: Ein Kompendium für Studium und Praxis, Springer Vieweg; 1. Aufl., Deutschland, 2017			online.de%2fameos%2fbfdAboGateway%3fabold%3d264 117 Access will be granted to all students enrolled in the study program				
Quality more	nitoring me	thods e		ition of k	nowledge upon comp	letion,	
skills and c			-		<u> </u>		
quality of th professors. content, the and the qua administrativ	e organizat The usefuli professor p ality of the rely compar	ion and ness of reparedr present ed. The	conduction of class the lectures from th less, the clarity of the ation are evaluated.	es, the co e students presentati The curr ents in lector	nymous student survey urse content and the v s' perspective, the curr on, the amount of new c iculum and its execution ures and exercises, as	vork of ficulum content on are	