

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	,	Faculty of Mechanical Engineering in Nis			
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Ubiquitous computing						
Level of Study	Bachelor		🗆 Mas	□ Master's x Doctoral			
Type of Course	Obligatory		🛛 Elec	tive			
Semester	🛛 Autumn		🗆 Spri	ng			
Year of Study	П						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Miroslav D.	Trajanovic					
Teaching Mode Image: Cectures Group tutorials Individual tutorials Teaching Mode Image: Cectures Cectures Cectures Cectures Image: Cectures Image: Cectures Cectures Cectures Cectures Purpose and Overview (max. 5 sentences) Image: Cectures Cectures Cectures Cectures To enable students to perform the independent, methodologically founded research in the field of ubiquitous computing. Students will be capable to independently analyse a case study, related to application of the ubiquitous computing technologies in the selected domain, including development of relevant domain and application models. Syllabus (brief outline and summary of topics, max. 10 sentences) Eentences • Basic concepts and principles of ubiquitous computing • Distance computing Eechnologies, business models, architectures and							
 models, standards, domain applications Cyber Physical Systems Basic concepts and principles of Wireless Sensor Networks: technologies, interoperability in Wireless Sensor Networks, models and ontologies of Wireless Sensor Networks Domain applications of Wireless Sensor Networks: environment, manufacturing and logistics, healthcare and prevention, clinical applications, agriculture, military, etc. Defining requirements, business models and modelling the architectures of ubiquitous computing in the selected domain 							
Language of Instruction							
⊠Serbian (complete course)	🛛 Engl	ish (complete	course) 🗆 Ot	her (complete course	:)	
□Serbian with English mentoring	□Serb	ian with other	mento	ring			
Assessment Methods and Criteria	3						

Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures		Written Examination				
Practical Teaching	70	Oral Examination	30			
Teaching Colloquia		Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						