

## **UNIVERSITY OF NIŠ**

## Course Unit Descriptor Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION				
Study Program	Mechanical Engineering			
Study Module (if applicable)	-			
Course Title	Software Development and Programming			
Level of Study	☐ Bachelor	☐ Maste	er's 🗵 Doctoral	
Type of Course	☐ Obligator	y 🗵 Electiv	ve	
Semester	⊠ Autumn	☐ Spring	Ĭ	
Year of Study	II			
Number of ECTS Allocated	10			
Name of Lecturer/Lecturers	Miroslav M. Mijajlović, Dragan S. Milčić, Dušan S. Stamenković			
Teaching Mode	⊠ Lectures	☐ Group	tutorials 🗆 In	dividual tutorials
	☐ Laborator	ry work 🛮 🖾 Project	work 🗵 Se	eminar
	☐ Distance I	earning 🗆 Blende	d learning 🔲 O	ther
Purpose and Overview (max. 5 ser	ntences)			
To transfer subject contents in field on scientific principles develop soft				
Syllabus (brief outline and summa	ry of topics, r	nax. 10 sentences)		
1) Introduction: Conceptual definit 2) Principles and models of softwo Decision table, Flow diagram, S Information flow and communical Jackson structured programming concept, Class concept, Basic elem Software quality; 8) Programming	are developm structured prostions, Struct (JSP), CASE to ents of the ol	ent,; 3) Software develogramming (Nassi - Stural Analysis (SA) and pools; 4) Procedural pro	lopment methods Schneiderman's d d structural analys gramming; 5) Obj	s, Algorithms and problem solving, iagram), Plan of the data flow, sis with design technique (SADT), ect-oriented programming, Object
Language of Instruction				
⊠Serbian (complete course)	☐ Engli	☐ English (complete course) ☐ Other (complete course)		
☐ Serbian with English mentoring	☐ Serbian with other mentoring			
Assessment Methods and Criteria				
Pre exam Duties	Points	Final Exam	Points	
Activity During Lectures	o	Written Examination	0	
Practical Teaching	o	Oral Examination	50	
Teaching Colloquia	50	Overall Sum	100	
*Final examination mark is formed	in accordanc	e with the Institutional	documents	