

## **UNIVERSITY OF NIŠ**

Course Unit Descriptor		Faculty	ulty Faculty		Ity of Mechanical Engineering		
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Logical synthesis of digital systems						
Level of Study	□Bachelor		□ Master's		🗵 Doctoral		
Type of Course	Obligator	ry 🛛 Ele	ectiv	e			
Semester	🗆 Autumn	🛛 Sp	Spring				
Year of Study	1						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Vladislav A. Blagojević						
Teaching Mode	<ul><li>☑ Lectures</li><li>☑ Laborato</li><li>☑ Distance</li></ul>	ry work 🛛 🖾 Pro	<ul> <li>□ Group tutorials</li> <li>☑ Project work</li> <li>□ Blended learning</li> </ul>		<ul> <li>□ Individual tutorials</li> <li>⊠ Seminar</li> <li>□ Other</li> </ul>		
Purpose and Overview (max. 5 ser	ntences)			_			
Introduce students to the basics of synthesis of logical digital control. The course is targeting both the theoretical and practical aspects of the logical synthesis.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
	gic circuits, 6				3) Boolean algebra, 4) Minimization of ding, 8) Digital system components, 9)		
Language of Instruction							
Serbian (complete course)							
□Serbian with English mentoring □Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties		Final Exam		Points			
Activity During Lectures 5 Wr		Written Examinat	tion	50			
Practical Teaching 10		Oral Examination	Ī	Max. 35 (de	epending on Teaching Colloquia)		

Teaching Colloquia	35	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							