

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty		Faculty of Me	chanical Engineering
GENERAL INFORMATION					
Study Program	Mechanical Engineering				
Study Module (if applicable)	-				
Course Title	Technical diagnostics				
Level of Study	⊠Bachelor		Master's Doctoral		
Type of Course	Obligatory		⊠ Elective		
Semester	🗆 Autumn		⊠ Spring		
Year of Study	111				
Number of ECTS Allocated	6				
Name of Lecturer/Lecturers	Miloš D. Milovančević				
	⊠ Lectures		Group tutorials		Individual tutorials
Teaching Mode	🛛 Laboratory work		🛛 Project work		🖂 Seminar
	□ Distance learning		□ Blended learning		□ Other
Purpose and Overview (max. 5 sentences)					
Student who successfully pass exams will be able to: master the technical diagnostics of mechanical systems; define choose and use methods of technical diagnostics of mechanical systems					
Syllabus (brief outline and summary of topics, max. 10 sentences)					
diagnostics. Systems of technical of and diagnostic parameters. Stages legality parameter changes the sit methods of diagnosis (testing aud (temperature, angular velocity and (testing changes lubricant propert the condition of working condition machinery and equipment. Metho support. Definition of hardware ar diagnostics. Practical teaching: Lab	diagnostics. C in the proce uation and th io, visual opti d number of r ties, diagnosis n. The parame ds of detection nd software to	control of workin ss of diagnosis a leir suitability fo ical tests, etc.,.). revolutions, of to s tribological ass eters of the stat on and location echnical suppor	ng cap and de r cont . Meth orque sembli e of w of faile t syste	acity of mech- itermine the o rol. Methods o ods for measu , mechanical p es). Vibro-aco rorking conditi ure. Multi-para em diagnostics	ower). Test procedures wear debris ustic methods of diagnosis. Diagnosis of ion. Basic types of cancellation in ametric analysis. Hardware and software s. Information systems of technical
Language of Instruction					

Assessment Methods and Criteria			
\Box Serbian with English mentoring	□ Serbian with other mentoring		
⊠Serbian (complete course)	⊠ English (complete course)	Other	(complete course)

Pre exam Duties	Points	Final Exam	Points		
Activity During Lectures	5	Written Examination	50		
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)		
Teaching Colloquia	35	Overall Sum	100		
*Final examination mark is formed in accordance with the Institutional documents					