

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Fa	aculty of Mec	culty of Mechanical Engineering			
GENERAL INFORMATION			•					
Study Program	Mechanical Engineering							
Study Module (if applicable)	-							
Course Title	Tribology							
Level of Study	Bachelor Doctoral							
Type of Course	□ Obligatory							
Semester	🛛 Autumn 🗆 Spring							
Year of Study	III							
Number of ECTS Allocated	6							
Name of Lecturer/Lecturers	Dušan S. Stamenković							
	⊠ Lectures	C	Group	tutorials	🛛 Individual tuto	orials		
Teaching Mode	⊠ Laboratory work		🛛 Projec	t work	⊠ Seminar			
	□ Distance learning [] Blende	ed learning	□ Other			
Purpose and Overview (max. 5 sentences)								
Introduce students to the basics of tribology concepts and basic tribology theories which describe the processes of friction, wear and lubrication. Internal and external tribological phenomena in mechanical systems, road and rail vehicles are particularly studied.								
Syllabus (brief outline and summary of topics, max. 10 sentences)								
 General introduction, 2) Surface roughness, 3) Real area of solid contact, 4) Sliding friction, 5) Rolling friction, 6) Static and dynamic friction, 7) Basic theories of friction, 8) Heat generation in friction, 9) Wear and wear parameters, 10) Lubrication, 11) Tribology aspects in rail and road vehicle movement, 12) Economic and ecologic aspects of tribological processes 								
Language of Instruction								
Serbian (complete course) English (complete course)			course)	□ Otl	her	_(complete course)		
□Serbian with English mentoring □Serbian with other mentoring								
Assessment Methods and Criteria								
Pre exam Duties	Points	Final Exam		Points				
Activity During Lectures 5		Written Exar	nination	Max. 55 (depending on Teaching Colloquia)				

Practical Teaching	10	Oral Examination	30				
Teaching Colloquia	55	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							