

## **UNIVERSITY OF NIŠ**

Course Unit Descriptor		Faculty	Faculty of Mechanical Engineering				
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Engineering statistic						
Level of Study	⊠Bachelor	□ Ма	☐ Master's ☐ Doctoral				
Type of Course	☐ Obligator	y 🗵 Ele	⊠ Elective				
Semester	⊠ Autumn □S		ing				
Year of Study	III						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Melanija Mitrović						
Teaching Mode	<ul><li>☑ Lectures</li><li>☐ Laborator</li><li>☐ Distance</li></ul>	ry work □ Proje	p tutorials ect work ided learning	<ul><li>☑ Individual tutorials</li><li>☐ Seminar</li><li>☐ Other</li></ul>			
Purpose and Overview (max. 5 ser Introduce students to the basics of descriptive statistics (collection, d distributions, test of hypotheses and targeting both the theoretical and p	the engineer escription, ar d confidence i	nalysis, and summar intervals, analysis of	y of data), pr	obability, and the binomial and	d norma		
Syllabus (brief outline and summa							
<ol> <li>Introduction to Probability;</li> <li>Random variables;</li> <li>Numerical characteristics of</li> <li>Basic elements of statistics;</li> <li>Parameter estimation;</li> <li>Testing parameter hypothe</li> <li>Nonparametric testing;</li> <li>Analysis of variance</li> <li>Linear regression.</li> </ol>	<sup>f</sup> random varid	ables;					
Language of Instruction							
⊠Serbian (complete course)	⊠ Engli	ish (complete course	) □ Ot	her(complete co	ourse)		
☐ Serbian with English mentoring	an with other mento	ring					

Assessment Methods and Criteria						
Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures	10	Written Examination	60			
Practical Teaching		Oral Examination	Max. 30 (depending on Teaching Colloquia)			
Teaching Colloquia	90	Overall Sum	100			

<sup>\*</sup>Final examination mark is formed in accordance with the Institutional documents