



UNIVERSITY OF NIŠ

Course Unit Descriptor**Faculty**

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Reliability of Mechanical Systems
Level of Study	<input checked="" type="checkbox"/> Bachelor <input type="checkbox"/> Master's <input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory <input checked="" type="checkbox"/> Elective
Semester	<input checked="" type="checkbox"/> Autumn <input type="checkbox"/> Spring
Year of Study	IV
Number of ECTS Allocated	6
Name of Lecturer/Lecturers	Dragan S. Milčić, Miroslav M. Mijajlović
Teaching Mode	<input checked="" type="checkbox"/> Lectures <input type="checkbox"/> Group tutorials <input type="checkbox"/> Individual tutorials <input type="checkbox"/> Laboratory work <input type="checkbox"/> Project work <input type="checkbox"/> Seminar <input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

The students get the knowledge about the reliability of mechanical systems and recognize practical application of that knowledge in the mechanical engineering tasks.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) Introduction into the reliability theory, 2) Basic terms of statistics and probability theory, 3) Mathematical models of failures (failure distribution, probability plots), 4) Investigation and analysis of reliability, 5) Reliability of the system, 6) Reliability based design.

Language of Instruction

Serbian (complete course) 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	5	Written Examination	0
Practical Teaching	5	Oral Examination	30
Teaching Colloquia	60	Overall Sum	100

*Final examination mark is formed in accordance with the Institutional documents