



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Reliability Engineering
Level of Study	<input type="checkbox"/> Bachelor <input type="checkbox"/> Master's <input checked="" type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory <input checked="" type="checkbox"/> Elective
Semester	<input type="checkbox"/> Autumn <input checked="" type="checkbox"/> Spring
Year of Study	I
Number of ECTS Allocated	10
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 checked="" type="checkbox"/> Project work <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Students are capable to independently and based on scientific principles perform design in product development from the aspect of reliability

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

1) Fault tree analysis (FTA), 2) Failure Mode and Effects Analysis (FMEA), 3) Testing of reliability of mechanical systems, 4) Reliability analysis, 5) System reliability, 6) Reliability allocation, 7) 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	0	Written Examination	50
Practical Teaching	0	Oral Examination	50
Teaching Colloquia	0	Overall Sum	100

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