



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Traffic engineering, transport and logistics		
Study Module (if applicable)	-		
Course Title	Maintenance management		
Level of Study	<input type="checkbox"/> Bachelor	<input checked="" type="checkbox"/> Master's	<input 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	6		
Name of Lecturer/Lecturers	Pedja M. Milosavljević, Goran S. Petrović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" 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)

This course aims to provide students with a basic theoretical and practical knowledge in the field of maintenance management. After completion of the subject the students are able to apply the acquired knowledge in engineering activities and theoretical work.

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

1) Introduction to maintenance management of technical systems - terminology, scientific approach; 2) Theoretical basis of systematic approach to maintenance management; 3) Approaches and techniques for maintenance performance measurement - Pareto, Ishikawa diagram; 4) Statistical process control - failure rate, mean time between failures, FMEA, reliability, availability, maintainability, safety, RAMS&C concept; 5) Modern strategies of technical systems maintenance; 6) Reliability Centered Maintenance; 7) Risk based maintenance; 8) Total productive maintenance (TPM); 9) Lean maintenance; 10) World-class Maintenance; 11) Information Systems in Maintenance & e-Maintenance

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
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Activity During Lectures	5	Written Examination	0
Practical Teaching	5	Oral Examination	30 (oral exam) and 30 (project presentation)
Teaching Colloquia	30	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			