



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Doctoral Academic Studies		
Study Module (if applicable)	-		
Course Title	Maintenance of railway vehicles		
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 checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	II		
Number of ECTS Allocated	10		
Name of Lecturer/Lecturers	Dušan S. Stamenković		
Teaching Mode	<input type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input checked="" type="checkbox"/> Individual tutorials
	<input type="checkbox"/> Laboratory work	<input checked="" 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)

Introduces students to modern approaches in maintenance of mechanical systems. Introduces students to stationary and on-board diagnostic systems on railways. Enabling of students to individually define / improve the railway vehicles maintenance plan and programme based on usage modern diagnostic systems.

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

1) Basic concepts and terms in the maintenance of mechanical systems, 2) Condition based maintenance, 3) Continuous monitoring of railway vehicles, 4) Preventive periodic inspections and repairs, 5) Regular repair, 6) Modifications and reconstruction of railway vehicles, 7) The basic principles of system repair by aggregate replacement, 8) Stationary diagnostic systems, 9) Diagnostic systems on the train - on-board systems, 10) Modern equipment in the maintenance of railway vehicles, 11) Testing of assemblies and devices of railway vehicles, 12) Information systems in operation and maintenance of railway vehicles

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		Written Examination	
Practical Teaching		Oral Examination	50
Project Work	50	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			