

Study program:	Civil Engineering		
Level of study:	Master academic studies		
Course title:	MAINTENANCE OF RAILWAYS		
Teacher:	Igor Jokanović		
Course Status:	Elective		
Credits (ECTS):	6		
Prerequisite:	N/A		
Course objective(s):	Introduction to the problems of maintenance of railway lines.		
Course outcome(s):	The realization of the planned objectives.		
Course Content:			
1 st week	General terms of railway maintenance. Railway condition inspection.		
2 nd week	Renewal of railway superstructure.		
3 rd week	Manual ongoing maintenance of superstructure.		
4 th week	Mechanized maintenance of superstructure.		
5 th week	The construction and maintenance of permanent way with long rails.		
6 th week	Maintenance of switches.		
7 th week	The construction and maintenance of superstructure for high speed railways.		
8 th week	Regeneration of superstructure materials.		
9 th week	Maintenance of substructure.		
10 th week	Maintenance of bridges and culverts.		
11 th week	Maintenance of tunnels and galleries.		
12 th week	Maintenance of facilities for protection from water.		
13 th week	Organization of maintenance of railway lines. Railway sections.		
14 th week	Maintenance rulebooks 314 and 315.		
15 th week	Submission of seminar papers and preparing for the final exam.		
Literature:	1. Tomičić-Torlaković, M., Održavanje železničkih pruga, Univerzitet u Beogradu, Beograd, 1998.		
Number of hours:	Other classes: 0		
Lectures: 2	Exercises: 2	Other forms of teaching: 0	Individual research work: 0
Teaching methods: lectures, exercises, seminars, colloquiums, consultations			
Evaluation of knowledge (maximum 100 points)			
Pre-exam activities	points	Final exam	points
Activity during the lectures	5	Written exam	-
Activity during the exercises		Oral exam	25
Seminar paper	20	-	-
Colloquia	50 (2 x 25)	-	-