

COURSE		RAILWAYS		
LECTURER		Asst. Prof. Sanjin Albinović Ph.D.		
STUDY	STATUS	SEMESTER	NUMBER OF LESSONS L+E	ECTS
B - CE	Compulsory	5	2+1	4
OBJECTIVES				
<ul style="list-style-type: none"> ☐ Introducing students to the basic characteristics of the railways. Explain to students the rules applicable in the planning and design of railroads. 				
LEARNING OUTCOMES				
<ul style="list-style-type: none"> ☐ Understanding the basic concepts related to the planning and design of railroads. ☐ Independent analysis of traffic, selecting the type of power car and work on the project documentation of preliminary project of railways. 				
COURSE CONTENT				
<ul style="list-style-type: none"> ☐ Basic characteristics of the railways. Traffic and transport indicators of railways. Railway vehicles. Calculation of train traction. Basic layouts for designing of railroads. Railways design: Project elaboration phases of railways routes. Elements of alignment, longitudinal and cross sections. Selection of the optimal slope and curve radius. Railroads subgrade: Number of the tracks. Structure gauge. Loading gauge 				
RECOMMENDED LITERATURE				
<ol style="list-style-type: none"> 1. D. Marušić: <i>Projektovanje i građenje željezničkih pruga</i>, Građevinski fakultet Sveučilišta u Splitu 1994. 2. Pravilnik 314 - <i>Pravilnik o održavanju gornjeg stroja pruga ŽS BiH</i>, ("Sl.glasnik BiH" br. 42- od 3.6.2013) 3. <i>C. Esveld: Modern railway track, Delft University of Technology, MRT productions – The Netherlands 2001</i> 				
<p>Examination:</p> <p>During the classes the exam is taken in three parts in writing. Each part is scored as follows: midterm exam – 2 x 25 points and final exam 50 points, a total of 100 points.</p> <p>a) If a student realizes 55% of both parts of the form his final score to a scale prescribed by the Law on Higher Education. Students who miss less than 5 points for grades 8, 9 and 10 were allowed to take the final exam orally for a higher grade.</p> <p>Cancelling exams: Students, who have passed both parts and are not satisfied with the results achieved in one part, can take that part again on the final exam.</p>				