UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	Faculty of Mechanical Engineering

GENERAL INFORMATION			
Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Railway vehicles		
Level of Study	☒Bachelor	☐ Master's	☐ Doctoral
Type of Course	☐ Obligatory	☒ Elective	
Semester	☐ Autumn	☒ Spring	
Year of Study	IV		
Number of ECTS Allocated	5		
Name of Lecturer/Lecturers	Dušan S. Stamenković		
Teaching Mode	☒ Lectures	☐ Group tutorials	☒ Individual tutorials
	☒ Laboratory work	☐ Project work	☐ Seminar
	☐ Distance learning	☐ Blended learning	☐ Other

Purpose and Overview (max. 5 sentences)

Introduce students to the railway vehicles design and to the basic constructional parameters of their assemblies. Students should to know the structure of locomotives, passenger cars, freight cars and trains, and to conduct the calculating procedure for running gear and car body.

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

1) General introduction, 2) Types of railway vehicles, 3) Basic technical and operational characteristics of railway vehicles, 4) Locomotive, 5) Passenger and freight cars, 6) Electric multiple unit (EMU) and diesel multiple unit (DMU), 7) High speed trains, 8) Magnetic levitation trains, 9) Tramway, 10) Main assemblies of rail vehicles, 11) Testing of railway vehicles, 12) Standards and regulations.

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	5	Written Examination	Max. 60 (depending on Teaching Colloquia)

Practical Teaching	**5**	**Oral Examination**	**30**
Teaching Colloquia	**60**	**Overall Sum**	**100**
***Final examination mark is formed in accordance with the Institutional documents**			