



UNIVERSITY OF NIŠ

Course Unit Descriptor**Faculty**

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Engineering Management		
Study Module (if applicable)	Transport and logistics management		
Course Title	Transporting machines and systems		
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 checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	I		
Number of ECTS Allocated	7		
Name of Lecturer/Lecturers	Miomir Lj. Jovanović		
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)

Program course is designed to introduce students with the machines for transport of materials and goods in the manufacturing and service systems. Students acquire knowledge which they can select for transport systems, identify machines that are part of the system. Students are able to determine the composition of the transport system (machines) for activities in transport. Discipline provides knowledge necessary for the calculation nominal properties and essential components of machines. This knowledge is needed for the management operation in the five complex transportation systems.

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

Logistics transporting (Conveyor) systems and material flows. Classification of the transporting systems. Machines of internal transport in production, Container and Combined transport. Systems and Technology reloading. Container Terminals. Storage systems. The parameters of transporting machines (performance, capacity, driving range, cycles). Machines with interrupted (cyclic) transport. Cranes. Supporting structures. Driving mechanisms of cranes. Passenger and freight elevators. Skip. Forklifts. Machines of continual transport. Systems and storage techniques. Machines for storage. Mobile transport equipment (construction, mining). Machines of the hydraulic and pneumatic transport. CITY transport vehicles, machines and systems. Preparation of the final exam.

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	(Three Colloquiums) 60
Practical Teaching	5	Final (oral) Examination	Max. 30
Three (3) teaching Colloquia (projects)	60	Overall Sum	100