



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Logistics maintenance		
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 type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	II		
Number of ECTS Allocated	10		
Name of Lecturer/Lecturers	Goran S. Petrović		
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)

The aim of the course is to broaden knowledge in technical systems maintenance from the prospective of logistics, which is essential to students for further scientific research. Course outcome is to improve the general level of education in the field of maintenance logistics. The fundamental outcome is student's capability to conduct research, as well as to analyze and solve practical problems in this field.

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

1) Introductory considerations. Concept and characteristics of contemporary logistics maintenance. 2) Two branches of logistics: military (or systems) logistics and business logistics. Features of systems logistics, fundamental principles, own identity, terminology, models, objectives. 3) Integrated Logistics Support –ILS as a model of systems logistics. The ten ILS elements – effective and economical support for the life cycle of technical systems. (Maintenance Planning; Manpower and Personnel; Supply Support; Support and Test Equipment; Technical Data; Training and Training Support; Computer Resources Support; Facilities; Packaging, Handling, Storage, and Transportation; Design Interface. 4) Increase of availability of system and reduce of life cycle costs as the main concept of all ILS elements. 5) Multiobjective Maintenance Optimization. 6) Spare-parts logistics. Support System for Spare Parts and other materials. Information support to spare parts warehouse. 7) Education in logistics maintenance.

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	40
Practical Teaching	5	Oral Examination	50 (project presentation)
Teaching Colloquia	0	Overall Sum	100

***Final examination mark is formed in accordance with the Institutional documents**