

UNIVERSITY OF NIŠ

Course Unit Descriptor		Facult	ÿ	Faculty of Me	chanical Engineering		
GENERAL INFORMATION							
Study Program	Mechanic	al Engine	ering				
Study Module (if applicable)	-	-					
Course Title	Warehouse	Warehouse material handling equipment					
Level of Study	Bachelor	⊠Bachelor		ster's	Doctoral		
Type of Course	🗆 Obligato	□ Obligatory		⊠ Elective			
Semester	🛛 Autumn	🛛 Autumn		ng			
Year of Study	IV						
Number of ECTS Allocated	6	6					
Name of Lecturer/Lecturers	Miomir Lj. J	ovanović					
	⊠ Lectures	5	🗌 Grou	ıp tutorials	Individual tutorials		
Teaching Mode	🛛 Laborato	🛛 Laboratory work		ect work	🛛 Seminar		
	Distance	Distance learning		ded learning	□ Other		

Purpose and Overview (max. 5 sentences)

Introduction to theoretical and practical knowledge of warehouse systems and warehouse material handling equipment. After completion of the subject the students are able to apply the acquired knowledge in field of design, management and maintenance of warehouses.

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

1) Logistic approach to procurement, production and distribution processes. Storage as a term. 2) The logistics system and warehousing. Techno-economic characteristics of the warehouses: warehouses capacity and goods turnover ratio. 3) Storage system. General of the processes and elements of the storage system. Elements of the warehouse: goods, storage objects, transport equipment, racks, auxiliary equipment and information systems. 4) Goods, packaging, pallets, pallet packages. The formation of logistics units. Techniques for identification and information systems in warehouses. 5) Storage objects. The types of storage facilities. The basic characteristics of storage facilities for bulk, parcel, liquid and gaseous goods. 6) Warehouse equipment. Equipment for reception of the goods in the warehouse. Racks - purpose, classification and description. Transport machines in warehouses. 7) Storage technologies. Overview of typical storage technologies for parcel, bulk, liquid and gaseous materials. 8) Commissioning technology. Definition. Material flow, information flow and organization of commissioning in warehouses. 1) Examples of existing warehouse calculation.

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	0		
Practical Teaching	5	Oral Examination	30		
Teaching Colloquia	60	Overall Sum	100		
*Final examination mark is formed in accordance with the Institutional documents					