

Study program: Mechatronics			
Type and level of studies: Master studies			
Course unit: Production Logistics			
Teacher in charge : Srećko Ćurčić			
Language of instruction: English			
ECTS: 6			
Prerequisites: -			
Semester: Summer			
Course unit objective			
The main objective of the study of this course is to provide students with knowledge of modern and promising production and logistics processes, as well as the knowledge of appropriate logistical support for various types of productive and service processes.			
The outcome of course			
Acquired knowledge enables the implementation of logistic concepts in the function defined objectives such as optimal procurement of necessary materials and information, schedule jobs, defining the minimum transportation costs, determining the maximum profit, environmental protection and others.			
Course unit contents			
Theoretical instruction deals with the study program through:			
1) Definition, resources and logistics concept logistics processes and characteristics of logistics concept for defined systems and processes. Resources Logistics in various business areas. The logistics concept as defined in the segment marketing processes.			
2) The functions of logistics			
Supply and continuity of supply to the materials and data for defined processes (obtaining information, appropriation, the choice of optimal supplier), models and systems procurement. Logistics storage for defined systems and processes: types of storage, file storage space, storage optimization, storage technologies, material handling equipment, warehouse automation. Types of equipment. Correlations: capacity-expenses-utilization of capacity. Transportation logistics and transport processes in defined systems and processes. Analysis, modeling and logistic simulation defined for systems and processes.			
Literature			
[1] Quentin Grafton R., Adamowicz W., Dupont, D., Nelson H., Hill, R.J., Renzetti, S. (2004): The Economics of the Environment and Natural Resources. Blackwell Publ.			
[2] Hannah Postlethwaite: Fundamentals of Exploration and Production Logistics, IBC Academy - Distance Learning Admin, Maple House, 149 Tottenham Court Road, London, W1T 7AD UK, 2014.			
[3] http://www.ibc-academy.com/event/oil-gas-logistics-distance-learning eBook Three Must-Have Capabilities to Achieve Global Supply Chain Visibility			
Number of active teaching hours			Other classes
Lectures: 2	Practice: 1	Other forms of classes	
Teaching methods Lessons, consultations, study and research work			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	5	oral examination	50
Practical classes/tests	15	written examination	
Seminars/homework	-	
Project	30		
Grading system			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	less than 50	Failing	