

Course Unit Descriptor

Study Programme: Traffic Engineering			
Course Unit Title: Selected topics from inventory management			
Course Unit Code: DSSL2			
Name of Lecturer(s): Dragan Simić, Djurdjica Stojanovic, Svetlana Nikolicic			
Type and Level of Studies: PhD level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 14			
Prerequisites: None			
Course Aims: Acquiring knowledge about importance of inventories in company, and also insight about importance of planning and management of inventories, as well as in company and also through entire supply chain.			
Learning Outcomes: By the end of the course student will be capable to: define and quantify goals of inventory management; recognize and define the parameters of the resupply policies; quantify relevant inventory performances; evaluate the impact of on the inventories on logistics costs and logistics services; to properly examine alternative approaches to inventory management models.			
Syllabus: Importance and types of inventories. Relevant costs of inventories. Economic order quantity. Vagueness of product demand and safety stocks level. Management inventory systems with periodic stock replenishment. Initiatives and programs of joint inventory management in the supply chain: collaborative planning, forecasting, and replenishment (CPFR), vendor-managed inventory (VMI), continuous replenishment programs (CRP), and efficient consumer response (ECR).			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours:	Lectures:	Practical work:	
Teaching Methods: Lectures, consultation, project. Knowledge check: oral examination.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Project	50	Oral part of the exam	50
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			