

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Decision problems in logistics II		Code 1010615321010617929
Field of study Transport	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty Logistics of Transport	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 9		No. of credits 1
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 1 100%
Responsible for subject / lecturer: dr inż. Paweł Zmuda-Trzebiatowski email: pawel.zmuda-trzebiatowski@put.poznan.pl tel. 616652716 Wydział Inżynierii Transportu ul. Piotrowo 3 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	student has basic knowledge in the field of mathematics, operational research and transport and management, as well as knowledge in the subject of Decision Problems in Logistics I
2	Skills	student is able to integrate the obtained information, make their interpretation, draw conclusions, formulate and justify the opinions of the ability to see, associate and interpret phenomena, and also has the skills in the subject of Decision Problems in Logistics I
3	Social competencies	the student is aware of the importance and non-technical understanding (including in particular economic and social) aspects and effects of transport activities and decisions taken
Assumptions and objectives of the course: The solution of a real decision problem which may occur in logistics		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. has detailed knowledge of selected issues in the field of transport engineering - [T2A_W03] 2. knows advanced methods, techniques and tools used to solve complex engineering tasks and conduct research in a selected area of transport - [T2A_W06]		
Skills: 1. can plan and carry out experiments, including measurements and simulations, interpret the results obtained and draw conclusions and formulate and verify hypotheses related to complex engineering problems and simple research problems - [T2A_U03] 2. can - using e.g. conceptually new methods - solve complex tasks in the field of transport engineering, including atypical tasks and tasks containing a research component - [T2A_U06]		
Social competencies: 1. understands the importance of using the latest knowledge in the field of transport engineering in solving research and practical problems - [T2A_K02]		
Assessment methods of study outcomes		
The prepared project is evaluated		
Course description		

Examples of projects may include issues such as the preparation of cargo loading standards for containers as well as different instances of problems encountered in the first part of the classes.		
Basic bibliography:		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in classes (according to plan)	9	
2. Preparation for exam	21	
Student's workload		
Source of workload	hours	ECTS
Total workload	30	1
Contact hours	9	0
Practical activities	30	1