

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Operational management in logistics		Code 1011101431011112835
Field of study Logistics - Full-time studies - First-cycle studies	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: 15 Laboratory: - Project/seminars: -		No. of credits 4
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 Technical sciences		ECTS distribution (number and %) 4 100% 4 100%
Responsible for subject / lecturer: dr inż. Katarzyna Grzybowska email: katarzyna.grzybowska@put.poznan.pl tel. 61 665 33 96 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań		Responsible for subject / lecturer: dr inż. Katarzyna Grzybowska email: katarzyna.grzybowska@put.poznan.pl tel. 61 665 33 96 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	has a basic knowledge of management and organizational processes, including logistics processes, identify the stages of material flow in the enterprise
2	Skills	able to identify the stages of material flow in the enterprise
3	Social competencies	there is no indication
Assumptions and objectives of the course: -introduce students with the problems of operational management in logistics processes, to develop skills in operating (current) management of logistics processes in the enterprise		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student is able to define the distribution problems as the essential elements of the logistics process - [[K1A_W14]]		
2. Student is able to using a spreadsheet to design simple algorithms necessary for the distribution - [[K1A_W15]]		
3. A student is able to explain in detail the concepts and phenomena characteristic of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) as well as supply chain management - [[K1A_W17]]		
4. The student knows how to formulate basic dependencies that are applicable within the framework of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) as well as supply chain management - [[K1A_W18]]		
5. has basic knowledge of products, equipment, technical systems - [[K1A_W19]]		
6. knows elementary notions connected with reliability and security in maintaining technical equipment, objects and technical systems - [[K1A_W20]]		
Skills:		

<p>1. The student can do the search that is based on disciplinary literature and other sources, and can in an orderly way, present information about the issue in the framework of logistics and its specific issues (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) and supply chain management - [[K1A_K01]]</p> <p>2. The student is sensitive to non-technical aspects and effects of engineering activities, including its impact on the environment and connected with it, responsibility for decisions in respect of a part of the logistics and supply chain management - [[K1A_K02]]</p> <p>3. has self-study ability and comprehends it - [[K1A_U05]]</p> <p>4. can make use of analytic, simulation and experimental methods to formulate and solve engineering problems - [[K1A_U09]]</p> <p>5. can conduct a critical analysis of the ways in which technical solutions function and assess, by means of Security Engineering, the existing technical solutions, in particular machines, equipment, objects, systems, services and processes - [[K1A_U13]]</p>
<p>Social competencies:</p> <p>1. is aware of the relevance of the study and understands non-technical aspect as well as the consequences of engineering activity, including its impact on environment and taken responsibility of his decisions - [[K1A_K02]]</p> <p>2. Student is responsible for the identification and resolution of the dilemmas associated with inventory management - [[K1A_K05]]</p>

Assessment methods of study outcomes		
<p>Formative assessment: current check of the acquired knowledge and skills learnt during lectures</p> <p>Collective assessment: a test based written exam within exam session</p>		
Course description		
<p>The logistics system; mapping business processes (overview mapping methods - algorithms, IDEF) Flow Mapping; Procurement process - a procedure; Develop a plan of production based on the sales plan - a procedure, determination of the volume of deliveries by the chosen methods - a procedure, algorithms selected activities; Analyses the supply chain by using value stream mapping; Identifying improvement opportunities; Identifying value add and non value add activities</p>		
Basic bibliography:		
<p>1. Zarządzanie operacyjne, Waters D, PWN</p> <p>2. Logistyka, Kisperska-Moroń, Krzyżaniak S., Biblioteka Logistyka, Poznań, 2009</p> <p>3. Zarządzanie logistyczne, Bardi E.J., Coyle J.J., Langley C.J., , PWE, Warszawa, 2002</p>		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Lectures	15	
2. Participation in exercises	15	
3. Consultations	40	
4. Prepare for Training	20	
5. Preparing to pass exercises	5	
6. Assessment of lectures	3	
7. Discussion of the results of assessment of lectures	2	
Student's workload		
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	50	2