

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Warehouses Design		Code 1011101251011115177
Field of study Logistics - Full-time studies - First-cycle studies	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 5
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: - Laboratory: - Project/seminars: 15		No. of credits 2
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 %) 2 100% 2 100%
Responsible for subject / lecturer: dr hab. Inż. Marek Fertsch, prof.nadzw. email: marek.fertsch@put.poznan. tel. 616653416 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has knowledge of the subject "technique, technology and logistics infrastructure"
2	Skills	The student has abilities of the subject "technique, technology and logistics infrastructure"
3	Social competencies	The student has the social skills of the subject "technique, technology and logistics infrastructure"
Assumptions and objectives of the course: Mastering the student's knowledge, skills and social competence of designing magazines		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Able to identify current trends in the logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics service, ekologiczne) and supply chain management phenomena - [K1A_W19]		
2. Has a basic knowledge of the life cycle of socio-technical systems (logistics systems) - [K1A_W21]		
3. Knows the basic methods, techniques, tools and materials used in solving simple engineering tasks related to the design of systems and logistics processes - [K1A_W23]		
Skills:		
1. Can search based on the literature and other sources and orderly way to present information on the issue falling within the logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics service, ekologiczne) and supply chain management - [K1A_U01]		
2. Able to demonstrate this using appropriate personal issue falling within the logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics service, ekologiczne) and supply chain management - [K1A_U02]		
3. Is able to prepare and present an oral presentation concerning the specific issues of logistics in Polish and foreign language - [K1A_U04]		
4. Is able to independently solve a given issue, housed in the subject being studied - [K1A_U05]		
5. Is able to solve the problem of falling within the subject being studied relevant experimental techniques and measurement including computer simulation in the design warehouse, design processes, logistics and materials handling design - [K1A_U08]		

<p>Social competencies:</p> <p>1. Is sensitive to the non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions in the field contained within the logistics and supply chain management (T1A_KO2) - [K1A_K02]</p> <p>2. Is willing to cooperate and work in teams to resolve problems contained within the subject being studied - [K1A_K03]</p> <p>3. Can correctly identify and resolve the dilemmas associated with the profession of logistics - [K1A_K05]</p> <p>4. Able to plan and manage in an entrepreneurial way - [K1A_K06]</p> <p>5. Knows the typical engineering technologies in logistics and its specific issues and supply chain management - [KInzA_W05]</p>
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<p>Assessment methods of study outcomes</p>
<p>Forming assesment</p> <p>a) the project- discussion on solutions that wants to propose in the project b) a lecture on the basis of answers to questions concerning the material discussed in the previous lecture</p> <p>summary assessment</p> <p>- of the project a) based on a public presentation of the project results and discussion about them, b) on the basis of the substantive quality of their project</p> <p>- in a lecture at the public presentation on a given topic and answer questions concerning the material discussed in the lecture</p>

<p>Course description</p>
<p>-Lecture begins by recalling the essence of the warehousing process and activities that make up the process. Then discussed are: the definition of storage, type of storage, type of storage equipment and rules for its selection. Presented is the process of designing the warehouse Warehouse documentation will be discussed. Scenarios for the use of simulation in the design of the warehouse.</p> <p>During the project class students work on a preliminary design of the selected warehouse by assumptions made by the teacher or the design process for the storage warehouse.</p>

<p>Basic bibliography:</p> <p>1. Gubała M., Popielas J., Podstawy zarządzania magazynem w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2002.</p> <p>2. Korzeniowski A. (red.), Zarządzanie gospodarką magazynową, PWE, Warszawa, 1997.</p> <p>3. Korzeń Z., Logistyczne systemy transportu bliskiego i magazynowania, t.1 i 2, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 1998</p>
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<p>Additional bibliography:</p>
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<p>Result of average student's workload</p>		
<p>Activity</p>	<p>Time (working hours)</p>	
1. Lectures	15	
2. Project	15	
3. Consultations	10	
4. Self work	30	
<p>Student's workload</p>		
<p>Source of workload</p>	<p>hours</p>	<p>ECTS</p>
Total workload	50	2
Contact hours	25	1
Practical activities	15	1