

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Warehouse Management</b>		Code <b>1011101351011114058</b>
Field of study <b>Engineering Management - Full-time studies -</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>3 / 5</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>elective</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>15</b> Classes: <b>15</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>4</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>4 100%</b> <b>4 100%</b>
<b>Responsible for subject / lecturer:</b> 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		<b>Responsible for subject / lecturer:</b> dr hab. inż. Marek Fertsch, prof. nadzw. email: marek.fertsch@put.poznan.pl tel. 61 665 33 74 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Acquaintance of bases of the logistics
2	<b>Skills</b>	The student is able to organize the process of restocking. The student is able to use basic measurers of the level of the customer service.
3	<b>Social competencies</b>	The student is showing willingness to cooperate in the group.
<b>Assumptions and objectives of the course:</b> Presenting the essence and principles of the warehouse policy. Giving student basic solutions used in the warehouse economy.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. has a basic knowledge of the life cycle of industrial products in the field of warehouse management - [K1A_W22]		
2. has a basic knowledge of warehouse management - [K1A_W26]		
<b>Skills:</b>		
1. can use to formulate and solve engineering tasks analytical, simulation and experimental methods in the field of warehouse management - [K1A_U13]		
2. can - when formulating and solving engineering tasks - perceive their systemic, socio-technical, organizational and economic aspects and non-technical aspects of warehouse management - [K1A_U14]		
3. can perform a preliminary economic analysis of undertaken engineering activities in the field of warehouse management - [K1A_U15]		
4. can perform critical analysis of technological processes in the field of warehouse management - [K1A_U16]		
<b>Social competencies:</b>		
1. is aware of the importance and understanding of the non-technical aspects and effects of engineering activities, including its environmental impact, and the resulting responsibility for the decisions on warehouse management - [K1A_K08]		
2. is aware that the creation of products that meet the needs of users requires a systemic approach that takes into account technical, economic, marketing, legal, organizational and financial issues in the area of warehouse management - [K1A_K09]		

<b>Assessment methods of study outcomes</b>	
<p>Formative assessment:                      current check of the acquired knowledge and skills learnt during lectures                      Within the scope of the exercises: on the basis of an assessment of the current progress of tasks (self and in groups, expression of opinions )                      Lectures: based on answers to questions about the material discussed in the lectures</p> <p>Collective assessment:                      Within the scope of the exercises: on the basis of public presentation on the subject                      Lectures: Written answer to open questions; a minimum of 60% points;</p>	
<b>Course description</b>	
<p>1. A storage process from A to Z;                      2. Warehouse systems / storage areas;                      3. Stock distribution in stock                      4. Optimizing the work of the warehouse;                      5. Storage documentation;                      6. Inventory and health and safety;                      7. Technical equipment in the warehouse;                      8. Operational indicators of warehouse management</p> <p>Didactic methods                      In lectures:                      1. Information lecture                      2. Conversational lecture                      In the field of self-employment:                      1. Working with a book                      In the scope of exercises:                      1. The exercise method? case method                      2. Demonstration method                      3. Guided text method                      4. Discussion</p>	
<p><b>Basic bibliography:</b>                      1. Fertsch M., Projektowanie magazynów, [w:] Fertsch M. (red.), Elementy inżynierii logistycznej, Wydawnictwo Instytutu Logistyki i Magazynowania, Poznań, 2017                      2. Gubała M., Popielas J., Podstawy zarządzania magazynem w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2002.                      3. Korzeniowski A. (red.), Zarządzanie gospodarką magazynową, PWE, Warszawa, 1997                      4. Korzeń Z., Logistyczne systemy transportu bliskiego i magazynowania, t.1 i 2, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 1998                      5. Dudziński Z., Poradnik organizatora gospodarki magazynowej w przedsiębiorstwie, PWE, Warszawa, 2012                      6. Dudziński Z., Opakowania w gospodarce magazynowej z dokumentacją i wzorcową instrukcją gospodarki opakowaniami, ODDK, Gdańsk, 2014                      7. Dudziński Z., Vademecum organizacji gospodarki magazynowej, ODDK, Gdańsk, 2011</p>	
<p><b>Additional bibliography:</b>                      1. Fijałkowski J., Technologia magazynowania, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa, 1995                      2. Galińska B., Gospodarka magazynowa, Difin, Warszawa, 2016</p>	
<b>Result of average student's workload</b>	
Activity	Time (working hours)

1. Lectures	15	
2. Participation in exercises	15	
3. Consultations	35	
4. Prepare for Training	20	
5. Preparing to pass exercises	10	
6. Assessment of lectures	3	
7. Discussion of the results of assessment of lectures	2	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	100	4
Contact hours	50	2
Practical activities	50	2