

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Designing industrial plants		Code 1011104471011110558
Field of study Logistics - Part-time studies - First-cycle	Profile of study (general academic, practical) (brak)	Year /Semester 4 / 7
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: First-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: 14 Classes: - Laboratory: - Project/seminars: 12		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		ECTS distribution (number and %) 4 100%
Responsible for subject / lecturer: dr inż. Ireneusz Gania email: ireneusz.gania@put.poznan.pl tel. 616653385 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań		Responsible for subject / lecturer: dr inż. Ireneusz Gania email: ireneusz.gania@put.poznan.pl tel. 616653385 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has a basic knowledge of managing production and services
2	Skills	The student understands and can apply the tools and techniques for the design of the production units of the first level of complexity
3	Social competencies	The student understands and is prepared to design the organization of production systems, especially in terms of production structures
Assumptions and objectives of the course: -Understanding the theoretical and practical issues related to the design of production systems and the basic methods and techniques used in the process		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. He has a basic knowledge of the management of production and its use in the design of production systems - [[K1A_W04,K1A_W07]]		
2. He has extensive knowledge of the structures and processes of production changes in this area and change management - [[K1A_W08,K1A_W10]]		
3. He knows the design methods and tools of production structures - [[K1A_W13,K1A_W14]]		
4. He can describe current trends indicate in designing the organization of production systems - [-]		
Skills:		
1. Able to formulate the task design (engineering) in the field of industrial organization, and choose the appropriate tools and methods to solve the problem - [[K1A_U04,K1A_U12]]		
2. Able to assess the economic terms of the specific problem area manufacturing system design - [[K1A_U13,K1A_U14]]		
3. Can design the structure of production, including the organization of production units higher degrees of sophistication, departments, establishments and auxiliary processes - [[K1A_U15]]		
4. Able to prepare and present in Polish or foreign to discuss the problem of the design of production systems - [[K1A_U16]]		
Social competencies:		

<p>1. He is responsible for proper identification and settlement of dilemmas associated with the practice in the design of production systems - [[K1A_K02,K1A_K03]]</p> <p>2. Understands the need and knows the possibilities of continuous training - [[K1A_K04,K1A_K05]]</p> <p>3. Able to pass on the knowledge to the members of the project team is aware of the responsibility for their own work and willingness to comply with the principles of teamwork - [[K1A_K06, Klnz_W05]]</p>
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Assessment methods of study outcomes

-Written exam, project, presentation of papers
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Course description

-Basis of design production systems. The company as a system. The term project situation (upgrading or developing new systems). Product realization process. Algorithm design and technical assumptions - economic production preparation products. The problem of design: the structure of production systems, production start, the spatial organization of manufacturing processes. Project documentation. The master plan, the location of the company. Project evaluation system. New directions and trends in the design of production systems.

Basic bibliography:

<ol style="list-style-type: none"> Gubała M., Popielas J., Podstawy zarządzania magazynem w przykładach, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 2002. Korzeniowski A. (red.), Zarządzanie gospodarką magazynową, PWE, Warszawa, 1997. Korzeń Z., Logistyczne systemy transportu bliskiego i magazynowania, t.1 i 2, Biblioteka logistyka, Wydawnictwo ILiM, Poznań, 1998 Organizacja i sterowanie produkcją, Brzeziński M, AW Placet, Warszawa, 2002 Organizacja i ekonomika procesów produkcyjnych w przemyśle maszynowym, Lis S., PWN, Warszawa, 1984 Podstawowe zagadnienia zarządzania produkcją, Liwowski B., Kozłowski R., Oficyna Ekonomiczna, Kraków, 2006 Projektowanie struktur systemów produkcyjnych, Mazurczak J., WPP, Poznań, 2001 Zarządzanie. Produkcja i usługi, Muhlemann A., Oakland J., Lockyer K, PWN , Warszawa, 2001 Podstawy projektowania struktur przedsiębiorstw przemysłowych, Jackowicz R., Lis S, WPW, Warszawa, 1987
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Additional bibliography:

<ol style="list-style-type: none"> Zarządzanie produkcją. Produkt, technologia, organizacja, Pająk E., PWN, Warszawa, 2006 Inżynieria zarządzania, Durlik I., AMP WN, Katowice, 1993
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Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Independent work of the student	15
3. Literature studies	30
4. Consultation	30
5. Exam Preparation	10

Student's workload

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	45	3
Practical activities	55	1