STUDY MODULE DESCRIPTION FORM					
Name of the module/subject Design of Production Systems				Code 1011104471011110219	
Field of study Logistics - Part-time studies - First-cycle			Profile of study (general acader (brak)	(general academic, practical)	
Elective path/specialty			Subject offered	^{in:} l ish	Course (compulsory, elective) elective
Cycle of	study:		Form of study (full-time,part-time)		
	First-cyc	le studies	part-time		
No. of h			No. of credits		
Lecture: 14 Classes: - Laboratory: - Project/seminars: 12					
Status of the course in the study program (Basic, major, other) (university-wide, from another fie (brak) (I					rak)
Education areas and fields of science and art				(0)	ECTS distribution (number and %)
technical sciences					4 100%
Responsible for subject / lecturer: Responsible for subject				lecturer:	
dr inż. Ireneusz Gania dr inż. Ireneusz Gania					
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tel. 616653385 Faculty of Engineering Management			tel. 616653385 Faculty of Engineering Management		
ul. Strzelecka 11 60-965 Poznań 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:					
 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]]					
		nt in Polish or foreign to discuss the	ne problem of the de	esign of produ	ction systems - [[K1A_U16]]
Social competencies:					

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]]

2. Understands the need and knows the possibilities of continuous training - [[K1A_K04,K1A_K05]]

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, KInz_W05]]

Assessment methods of study outcomes -Written exam, project, presentation of papers **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: 1. Organizacja i sterowanie produkcją, Brzeziński M, AW Placet, Warszawa, 2002 2. Organizacja i ekonomika procesów produkcyjnych w przemyśle maszynowym, Lis S., PWN, Warszawa, 1984 3. Podstawowe zagadnienia zarządzania produkcją, Liwowski B., Kozłowski R., Oficyna Ekonomiczna, Kraków, 2006 4. Projektowanie struktur systemów produkcyjnych, Mazurczak J., WPP, Poznań, 2001 5. Zarządzanie. Produkcja i usługi, Muhlemann A., Oakland J., Lockyer K, PWN , Warszawa, 2001 6. Podstawy projektowania struktur przedsiębiorstw przemysłowych, Jackowicz R., Lis S, WPW, Warszawa, 1987 Additional bibliography: 1. Zarządzanie produkcją. Produkt, technologia, organizacja, Pająk E., PWN, Warszawa, 2006 2. Inżynieria zarządzania, Durlik I., AMP WN, Katowice, 1993 Result of average student's workload Time (working Activity hours) 15 1. Participation in lectures 2. Independent work of the student 15 30 3. Literature studies 4. Consultation 30 5. Exam Preparation 10 Student's workload Source of workload ECTS hours 100 4 Total workload Contact hours 45 3

Practical activities

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