STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject			
Production and Operations Management Field of study	Profile of study	1011101351011115676 Year /Semester	
	(general academic, practical))	
Logistics - Full-time studies - First-cycle stud Elective path/specialty	es (brak) Subject offered in:	3 / 5 Course (compulsory, elective)	
	Polish	obligatory	
Cycle of study:	Form of study (full-time,part-time)		
First-cycle studies	full-time		
No. of hours		No. of credits	
Lecture: 30 Classes: 30 Laboratory: 15	Project/seminars:	- 5	
Status of the course in the study program (Basic, major, other)	(university-wide, from another	,	
(brak)		(brak)	
Education areas and fields of science and art		ECTS distribution (number and %)	
Responsible for subject / lecturer:		I	
dr inż. Agnieszka Grzelczak			
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Faculty of Engineering Management ul. Strzelecka 11, 60-965 Poznań			
Prerequisites in terms of knowledge, skills an	d social competencies:		
	-		
1 Knowledge Iogistics organization.	Student has a fundamental knowledge in the field of process engineering, production and logistics organization.		
2 Skills Student understands and is able systems for designing of product		anufacturing process and	
3 Social Student understands and is pre		nd services especially in the	
competencies scope or designing of production	systems? structures.		
Assumptions and objectives of the course:			
Students become familiar with methodology and technique ap management aspects.	blied for designing of production	n systems? structures and other	
Study outcomes and reference to the	educational results for	r a field of study	
Knowledge:			
1. He has a basic knowledge of computer science (information management and services, production systems design (indust		ransportation, production	
2. He is able to explain the relationship between: IT (informatic production management and services, production systems des management - [K1A_W10]			
3. Student knows methods and tools for developing manufactu	ring structures - [K1A_W33]		
Skills:			
1. He can independently develop a set, housed in the subject	peing studied issue - [T1A_U0	5]	
2. He can be formulated using analytical methods, simulation of task and solve the task in the field of logistics and its specific is manufacturing and sourcing, logistics service,) and supply cha	ssues (inventory management,		
3. He is able to select appropriate tools and methods to solve management as well as how to use them effectively - [T1A_U	he problem of falling within the	e logistics and supply chain	
Social competencies:			

1. He is aware of the need for lifelong learning; inspire and organize the learning process of others in the coming within studied concerning issues - [K1A_K01]

He is willing to cooperate and work in teams to resolve contained within the subject being studied problems - [K1A_K03]
 He is able to see the cause-and-effect relationships in the implementation of the set objectives and importance rangować tasks - [K1A_K04]

4. He is able to plan and manage in an entrepreneurial manner - [K1A_K06]

Assessment methods of study outcomes

Formative assessment:

in laboratory: on the basis of assessing the current progress of the tasks

in lectures: on the basis of answers to questions about the material discussed in the previous lectures

Summary summary:

in laboratory: presentation of works

in lectures: colloquium

Course description

Enterprises as manufacturing system. Production structure, fundamentals of its model ling. Plant specialization. Similarity and stabilization of production. Types and forms of production organization. Criteria of system optimization. Algorithm for design and reconstruction of manufacturing structures. Technical development of production units with usage of software support. Design of production units layout and surface arrangement. New trends in the field of service and operations management.

DIDACTIC METHODS:

Lecture: information lecture

Exercise: case study, method of exercise

Laboratory: laboratory method

Basic bibliography:

1. Pająk E., Klimkiewicz M., Kosieradzka A., Zarządzanie produkcją i usługami, PWE, Warszawa 2014.

2. Brzeziński M. (red.), Organizacja i sterowanie produkcją, AW Placet, Warszawa, 2002.

3. Mazurczak J., Projektowanie struktur systemów produkcyjnych, WPP, Poznań, 2001.

4. Boszko J., Struktura organizacyjna przedsiębiorstwa i drogi jej optymalizacji, WNT, Warszawa 1973.

5. Ragin-Skorecka K., Grzelczak A., Motała D., Podstawy zarządzania nie tylko dla logistyków, Wydawnictwo WSB, Poznań 2017.

Additional bibliography:

1. Muhlemann A., Oakland J., Lockyer K., Zarządzanie. Produkcja i usługi, PWN , Warszawa, 2001.

2. Pająk E., Zarządzania produkcją, Wydawnictwo Naukowe PWN, Warszawa 2017.

3. Senger Z., Sterowanie przepływem produkcji, WPP, Poznań, 1998.

4. Wróblewski K., Podstawy sterowania przepływem produkcji, WNT, Warszawa 1993.

5. Durlik I., Inżynieria zarządzania, AMP WN, Katowice, 1993.

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	30
2. Participation in laboratories and projects	45
3. Literature studiem	30
4. Elaboration of project	15
5. Preparation for exam	5

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	75	3
Practical activities	45	2