STUDY MODULE DESCRIPTION FORM							
Name of the module/subject Production and Operations Management				Code 1011101461011115676			
Field of study Logistics - Full-time studies - First-cycle studies		es	Profile of study (general academic, practical) general academic		Year /Semester 3 / 6		
Elective path/specialty	-		Subject offered in: Polish		Course (compulsory, elective) obligatory		
Cycle of study:		Form	n of study (full-time,part-time)				
First-cycle studies			full-time				
No. of hours				. –	No. of credits		
Lecture: 30 Classes				15	6		
			(university-wide, from another field) university-wide				
	other		unive	ersi			
Education areas and fields of scie	nce and an				ECTS distribution (number and %)		
technical sciences					6 100%		
Responsible for subje	ct / lecturer:						
dr inż. Agnieszka Grzelcza email: agnieszka.grzelczak tel. 61 665 33 69 Faculty of Engineering Mar	k@put.poznan.pl						
ul. Strzelecka 11, 60-965 F	0						
Prerequisites in terms	s of knowledge, skills and	d so	cial competencies:				
1 Knowledge	Student has a fundamental know logistics organization.	vledg	e in the field of process e	ngine	eering, production and		
2 Skills	Student understands and is able systems for designing of product			anufa	acturing process and		
3 Social competencies	and a finite of supplication of states of states of states of the states						
Assumptions and obje	ectives of the course:						
Students become familiar with management aspects.	n methodology and technique app	blied f	for designing of production	n sys	stems? structures and other		
Study outcor	nes and reference to the	edu	cational results for	' a f	ield of study		
Knowledge:							
	of computer science (information roduction systems design (industr			rans	portation, production		
	lationship between: IT (information services, production systems des						
• • • •	nd tools for developing manufactur	ring s	structures - [K1A_W33]				
Skills:							
	elop a set, housed in the subject b	•	• –	-			
task and solve the task in the	g analytical methods, simulation o field of logistics and its specific is logistics service,) and supply chai	sues	(inventory management,				
3. He is able to select appropriate tools and methods to solve the problem of falling within the logistics and supply chain management as well as how to use them effectively - [T1A_U15]							
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 project and laboratory: Based on current performance progress assessment

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

Summary summary:

in project and laboratory: presentation of works

in lectures: oral exam

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: information lecture, case study, project method and laboratory exercises.

Basic bibliography:

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

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

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

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

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

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

7. 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. 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	30
3. Literature studiem	30
4. Elaboration of project	15
5. Preparation for exam	15
6. Exam	5

Student's workload

Source of workload	hours	ECTS
Total workload	150	6
Contact hours	75	3
Practical activities	30	1