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Course (compulsory, elective)

obligatory

3/5

Year /Semester

Code

Profile of study (general academic, practical)

general academic

Polish

Subject offered in:

Form of study (full-time,part-time)

Name of the module/subject

Elective path/specialty

Field of study

Cycle of study:

Production and Operations Management

Logistics - Part-time studies - First-cycle

First-cycle studies					part-time				
No. of h	ours							1	No. of credits
Lectur	e: 16	Classes	: -	Laboratory:	14	Project/se	eminars:	-	5
Status o	of the course	n the study p	orogram (Ba	asic, major, other)			ide, from anothe	er field)	
		(other				uni	versit	y-wide
Education	on areas and	fields of scie	nce and art						ECTS distribution (number and %)
techn	nical scie	nces							5 100%
Resp	onsible f	or subje	ct / lect	urer:					
ema tel. 6	nż. Agnieszk ail: agnieszk 61 665 33 6 ulty of Engii	a.grzelczal 9	∢@put.poz	•					
	aity of Erigii Strzelecka 1								
Prere	quisites	in term	s of kno	wledge, ski	lls an	d social co	mpetencies	s:	
1	Knowle	dge	Student has a fundamental knowledge in the field of process engineering, production and logistics organization.						
2	Skills		Student understands and is able to apply the parameters of manufacturing process and systems for designing of production structures.						
3	Social compet	encies	Student understands and is prepared to manage production and services especially in the scope of designing of production systems? structures.						
Studen	•	familiar wit		of the cours		blied for design	ing of producti	ion syste	ems? structures and othe
	Stud	y outcor	nes and	l reference t	o the	educationa	al results fo	or a fie	eld of study
Know	vledge:	-							
				er science (info systems design				transpo	ortation, production
product	s able to ex tion manag ement - [K1	ement and	lationship services, p	between: IT (inforced) production system	ormations des	n technology), ign (industrial	economics an design) and lo	nd organ gistics,	nization of transport, supply chain
3. Stud	lent knows i	methods ar	nd tools for	developing ma	nufactu	ring structures	- [K1A_W33]		
Skills	S :								
1. He c	an indepen	dently deve	elop a set,	housed in the s	ubject l	eing studied is	ssue - [T1A_U	J05]	
task an	nd solve the	task in the	field of log		ecific is	sues (inventor	y managemen	nt, logisti	oject being studied desigr ics, distribution, logistics,
				and methods to m effectively - [falling within th	ne logist	tics and supply chain
Socia	al compe	tencies:							

STUDY MODULE DESCRIPTION FORM

Faculty of Engineering Management

- 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]
- 2. He is willing to cooperate and work in teams to resolve contained within the subject being studied problems [K1A_K03]
- 3. 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: 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 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:

Lecture: information lecture

Laboratory: case study, laboratory exercises.

Basic bibliography:

- 1. Brzeziński M. (red.), Organizacja i sterowanie produkcją, AW Placet, Warszawa, 2002.
- 2. Pająk E., Klimkiewicz M., Kosieradzka A., Zarządzanie produkcją i usługami, PWE, Warszawa 2014.
- 3. Mazurczak J., Projektowanie struktur systemów produkcyjnych, WPP, Poznań, 2001.
- 4. Boszko J., Struktura organizacyjna przedsiębiorstwa i drogi jej optymalizacji, WNT, Warszawa 1973.
- 5. Wróblewski K., Podstawy sterowania przepływem produkcji, WNT, Warszawa 1993.
- 6. 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.
- 4. Senger Z., Sterowanie przepływem produkcji, WPP, Poznań, 1998.

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	16
2. Participation in laboratories and projects	14
3. Literature studiem	30
4. Elaboration of project	15
5. Preparation for exam	5
6. Consultation	25
7. Exam	5

Student's workload

Source of workload	hours	ECTS
Total workload	110	5
Contact hours	60	4
Practical activities	14	1