		STUDY MODULE D	ES	CRIPTION FORM	-		
	f the module/subject stic engineering				Coo 10	^{de} 11101441011119862	
Field of		studies - First-cycle studi	ies	Profile of study (general academic, practica general academic	·	Year /Semester 2 / 4	
Elective	path/specialty	-		Subject offered in: Polish		Course (compulsory, elective) elective	
Cycle of	study:		For	m of study (full-time,part-time)		
First-cycle studies				full-time			
No. of h						No. of credits	
Lectur	e: 30 Classes	: - Laboratory: -		Project/seminars:	15	5	
Status c	•	program (Basic, major, other) other	(university-wide, from another	,	ty-wide	
Educatio	on areas and fields of sci			univ	ersi	ECTS distribution (number	
						and %)	
techr	nical sciences					5 100%	
Technical sciences						5 100%	
Resp	onsible for subje	ect / lecturer:					
dr hab. inż. Marek.Fertsch, prof. nadzw. email: marek.fertsch@ put.poznan.pl tel. 616653416 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań							
		s of knowledge, skills an	d s	ocial competencies			
1.010		The student has knowledge of th		-	•		
1	Knowledge	The statent has knowledge of a	10 01				
2	Skills	The student has the skills in the	subj	ect of logistics.			
3	Social	The student has social competences in the field of logistics.					
A = = + +	competencies	antime of the common					
	ing the knowledge, sk	ectives of the course: ills and social competences assoc	ciate	d with the applications of I	ogist	ic engineering by the	
	Study outco	mes and reference to the	ed	ucational results fo	raf	ield of study	
Know	/ledge:						
1. knov	vs the basic relationsh	ips characteristic for the application	ons	of logistic engineering (T1	A_W	03) - [K1A_W14]	
		nenomena characteristic for the fu					
		characteristic for the functioning of	of log	gistic engineering applicati	ons -	· [K1A_W17]	
Skills							
		the process of needs analysis in I he right tools and methods of ana	-	• • • • •	-	-	
[K1A_l	J15]	ů –		0 0	0	0 11	
3. Can design a logistics system using the right methods and techniques using logistic engineering - [K1A_U16] Social competencies:							
1. The	student is sensitive to	non-technical aspects and effects system (T1A_KO2) - [K1A_K02]	s of e	engineering activities, inclu	uding	its impact on the	
	consible for correct ide	entification and resolution of dilem	imas	related to the functioning	of th	e logistics system -	
3. The	student is able to plar	and manage in an entrepreneuria	al ma	anner as part of a logistics	syst	em - [K1A_K06]	

3

2

65

50

Assessment methods of study outcomes

Forming rating

a) project - based on a discussion on solutions that he wants to propose as part of the project

b) the lecture based on the answers to questions about the material discussed in the previous lecture

Summary rating

in the scope of the project

a) on the basis of a public presentation of the project results and discussions on them,

b) on the basis of the substantive quality of the prepared project

in the lecture-based on the pass (exam)

Course description

Logistics systems. Logistics processes. Logistic system and logistics process as a subject of design. The stages of logistics development. A place of logistic engineering in the development of logistics. Methodological basis of logistic engineering. Planning in logistics. Information exchange in logistic systems.

Teaching methods:

conventional monographic lecture,

project: team project, work with literature

Basic bibliography:

1. Blanchard B., Logistics engineering and management, Prentice-Hall, Inc., Englewood Cliffs, New Jersey 1992

2. Fertsch M. (red)., Elementy inżynierii logistycznej, Wydawnictwo ILiM, Poznań, 2017

3. Blanchard B.S., Logistics as an Integrating System's Function, [in:] Don Taylor G. (red.)., Introduction to Logistics Engineering, CRC Press, Boca Raton, FL, 2009

4. Coyle J.L., Bardi E. J., Langley C.J.Jr., Zarządzanie logistyczne, Polskie Wydawnictwo Ekonomiczne, Warszawa, 2002

Additional bibliography:

1. Pfohl H.- Ch., Systemy logistyczne. Podstawy organizacji i zarządzania. Wydawnictwo ILiM, Poznań, 2002.

2. Don Taylor G., Introduction to logistics Engineering, CRC Press, Taylor& Francis Group, Boca Raton, London, New York, 2009

Result of average st	udent's workload	
Activity	Time (working hours)	
1. Lectures		30
2. Project		15
3. Consultation		15
4. Own work		20
5. The exam		5
Student's w	vorkload	
Source of workload	hours	ECTS
Total workload	85	5

Contact hours

Practical activities