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		STUDY MODULE DE	ES	CRIPTION FORM			
	of the module/subject				Cod		
	nematical Decision	on Making			101	11102211011006436	
Field of	study			Profile of study (general academic, practical)		Year /Semester	
Safe	ty Engineering -	d-	(brak)		1/1		
Elective path/specialty Ergonomics and Work Safety				Subject offered in: Polish		Course (compulsory, elective) obligatory	
Cycle o	f study:		For	m of study (full-time,part-time)			
Second-cycle studies				full-time			
No. of h	nours					No. of credits	
Lectu	re: 15 Classe:	s: 30 Laboratory: -		Project/seminars:	-	4	
Status	of the course in the study	program (Basic, major, other)		university-wide, from another fi	ield)		
		(brak)		(brak)			
Educati	on areas and fields of sci	ience and art				ECTS distribution (number and %)	
dr F ema tel. Fac	Pionsible for subjective Rejmenciak ail: piotr.rejmenciak@p +48 61 665 2812 sulty of Electrical Engir Piotrowo 3A, 60-965 P	out.poznan.pl neering					
Prere	equisites in term	ns of knowledge, skills and	d s	ocial competencies:			
1	Knowledge	Students have knowledge of mathematics, particularly calculus and algebra.					
2	Skills	Students can determine the extremes of functions of one variable, compute the partial derivatives, operate on matrices. Students can check the basic properties of the relationship.					
3	Social competencies	Students are eager to learn.					
Assu	mptions and obj	jectives of the course:					
		amiliarize students with the differen	nt m	ethods that help in making	the	best decisions.	
	Study outco	mes and reference to the	ed	ucational results for	a f	ield of study	
Knov	vledge:					-	
		stand methods to make optimal de	cisio	ons [K2A-W01, K2A-W04	<u>.</u>]		
2. Stud	dents know a mathema	atical model and the optimization c	riter	ion for the real issues [K2	2A-\	V01, K2A-W04]	
Skills	s:						
	dents are able to formu (2A-U12, K2A-U18]	ulate a mathematical model of linea	ar aı	nd nonlinear programming	prob	olems [K2A-U1-5, K2A-	
	dents can discuss the (2A-U18)	real issues of the optimal solution f	for a	iny changes in the input da	ta.	- [K2A-U1-5, K2A-U10, K2A	
		decision problem in terms of expedition 11-5, K2A-U10, K2A-U12, K2A-U18		ons for the results obtained	d an	d the amount of work	
Socia	al competencies:						
1. Stud	dents understand the r	need and knows the possibilities of	life	ong learning [K2A-K1, K2	2A-ŀ	(3]	

Assessment methods of study outcomes

2. Students see the opportunity to use the learned knowledge into practice. - [K2A-K1, K2A-K3]

Faculty of Engineering Management

Formative assessment:

- a) In regards to classes: on the basis of two written tests.
- b) Regarding lectures: on the basis of oral or written assignments relating to the material covered during current or previous lectures.

Collective assessment:

- a) In respect to classes:receive 51% of the total points is equivalent to completing the exercise, the assessment "change" every 10 percentage points.
- b) Considering lectures: the average of formative marks.

Course description

- ? Mathematic programming
- ? Network algorithms: determination of the shortest path in the graph, determination of the maximum flow in the transport network
- ? Transport Problems
- ? Games
- ? Rough set theory;
- ? Relations: orders
- ? Fuzzy set theory

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
Participation in lectures	15
2. Participation in exercises	30
3. Consultation	5
4. Preparing for training	15
5. Preparing for colloquia	20

Student's workload

Source of workload	hours	ECTS						
Total workload	85	4						
Contact hours	50	2						
Practical activities	50	2						