		STUDY MODULE DE	SCRIPTION FORM			
	f the module/subject nematical Decisio	on Making		Code 1011102211010346436		
Field of Safe		Full-time studies - Second	Profile of study (general academic, practical) - (brak)	Year /Semester		
Elective	path/specialty Ergonom	nics and Work Safety	Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of	f study:		Form of study (full-time,part-time)			
	Second-cy	/cle studies	full-time			
No. of h Lectur Status o	re: 15 Classes	s: 30 Laboratory: -	Project/seminars: (university-wide, from another f	- No. of credits 4		
	-	(brak)		(brak)		
Educati	on areas and fields of science	ECTS distribution (number and %)				
the s	ciences	4 100%				
	Mathematical	4 100%				
ema tel. Fac ul. F	iotr Rejmenciak ili: piotr.rejmenciak@p +48 61 665 2812 ulty of Electrical Engin Piotrowo 3A, 60-965 Po equisites in term	eering	social 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.				
	• •	ectives of the course:				
The air	n of the course is to fa	miliarize students with the differen	t methods that help in making	the best decisions.		
	-	mes and reference to the	educational results for	a field of study		
1. Stuc	lents know a mathema	stand methods to make optimal dec tical model and the optimization cr				
1. Stuc		late a mathematical model of linea	r and nonlinear programming	problems [K2A-U1-5, K2A-		
2. Stuc	-	eal issues of the optimal solution f	or any changes in the input da	ıta [K2A-U1-5, K2A-U10, K2A-		
3. Stuc	lents can analyze the	decision problem in terms of expec 1-5, K2A-U10, K2A-U12, K2A-U18		d and the amount of work		
	al competencies:					
		eed and knows the possibilities of				
2. Stuc	lents see the opportun	ity to use the learned knowledge in	nto practice [K2A-K1, K2A-K	[3]		

Assessment methods of study outcomes

Formative a	ssessment:		
a) In regards	s to classes: on the basis of two written tests.		
b) Regardir lectures.	ng lectures: on the basis of oral or written assignments rela	ting to the material covered	I during current or previous
Collective as	ssessment:		
	t to classes:receive 51% of the total points is equivalent to rcentage points.	completing the exercise, the	e assessment "change"
b) Consideri	ing lectures: the average of formative marks.		
	Course descri	otion	
? M	athematic programming		
? Ne transport ne	etwork algorithms: determination of the shortest path in the twork	e graph, determination of th	e maximum flow in the
? Tr	ransport Problems		
? G	ames		
? R	ough set theory;		
	elations: orders		
? Fi	uzzy set theory		
Additiona	oliography: al bibliography:		
Additiona	al bibliography:	nt's workload	
Additiona		nt's workload	
Additiona	al bibliography:	nt's workload	Time (working hours)
	al bibliography: Result of average stude	nt's workload	
1. Participat	al bibliography: Result of average stude Activity	nt's workload	hours)
1. Participat	al bibliography: Result of average stude Activity ion in lectures ion in exercises	nt's workload	hours)
1. Participat 2. Participat	al bibliography: Result of average stude Activity ion in lectures ion in exercises ion	nt's workload	hours) 15 30
 Participat Participat Participat Consultat Preparing 	al bibliography: Result of average stude Activity ion in lectures ion in exercises ion	nt's workload	hours) 15 30 5
 Participat Participat Participat Consultat Preparing 	al bibliography: Result of average stude Activity ion in lectures ion in exercises ion g for training		hours) 15 30 5 15
 Participat Participat Participat Consultat Preparing 	al bibliography: Result of average stude Activity ion in lectures ion in exercises ion g for training g for colloquia		hours) 15 30 5 15
 Participat Participat Consultat Preparing Preparing 	al bibliography: Result of average stude Activity ion in lectures ion in exercises ion g for training g for colloquia Student's work Source of workload	doad hours	hours) 15 30 5 15 20
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