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STUDY MODULE DESCRIPTION FORM								
Name of the module/subject Mathematics				Code				
Field of					Profile of study	10	11104211011000063 Year /Semester	
·					(general academic, practical)			
	ty Engineering -	Part-time s	tuales - First-		(brak) Subject offered in:		1 / 1 Course (compulsory, elective)	
Elective	path/specialty	-			Polish		obligatory	
Cycle o	f study:			For	rm of study (full-time,part-time))	, <u> </u>	
	First-cyc	cle studies		part-time				
No. of h	iours						No. of credits	
Lectu	re: 10 Classes	s: 12 La	aboratory: -		Project/seminars:	-	5	
Status	of the course in the study		major, other)		(university-wide, from another	,		
		(brak)				(br	ak)	
Educati	on areas and fields of sci	ence and art					ECTS distribution (number and %)	
Responsible for subject / lecturer: Instytut Matematyki PP; email: office_@math.put.poznan.pl. tel. (0-prefiks-61) 6652 320 Wydzial Elektryczny ul. Piotrowo 3A, 60-965 Poznań;								
	-		edge, skills an	d s	ocial competencies	:		
1	Knowledge	Basics of mathematics - secondary school level.						
2	Skills	Efficient calculating						
3	Social competencies	Logical and scientific thinking						
Assu	mptions and obj	ectives of t	he course:					
The su fundan	bject is aimed at intro- nental mathematic top	ducing basic ter ics and for using	rms from the area og g mathematics in r	of m	athematics, giving skills ar agement	nd cc	empetences for solving	
	Study outco	mes and ref	ference to the	ed	ucational results fo	r a f	ield of study	
Knov	vledge:							
1. has the basic knowledge on the character of managerial science and it?s place in relations with contextual and ergological sciences [K1A_W01]								
2. knows methods and instruments for collecting data, processing and selecting it and for distributing information - [K1A_W11]								
3. knows methods and instruments of descriptive statistics, as well as their application in models of processes and phenomena occurring in organizations - [K1A_W12]								
4. knows methods and instruments for shaping processes that take place between actors of the market - [K1A_W13]								
Skills: 1. is able to use own knowledge of mathematics in order to make simulations and then, make a logical concluding and								
interpret results - [K1A_U12] 2. is able to use analytical and simulation methods in forming and solving engineer tasks - [K1A_U13]								
3. is able to solve engineer project tasks with use of mathematical rules - [K1A_U17, K1A_U18]								
	al competencies:						-	
understands the necessity of expanding own mathematical knowledge - [K1A_K01]								
2. is able to prepare and realize different engineer ventures individually and in a team - [K1A_K02, K1A_K07]								

Faculty of Engineering Management

Forming assessment:

- a) exercises: on basis of the current progress of the realization of topics evaluated during written
- b) lectures: on basis of responses to questions referring to topics from previous lectures,

final assessment:

- a) exercises: on basis of the average from partial grades obtained for the forming assessment
- b) lectures: written exam. It is possible to enter the examination after passing exercises.

Course description

Function for one, two or many variables and their application in management. Account of vectors and matrixes, Sets of equations and irregularities - examples from the field of the management.

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. lectures	10
2. exercises	12
3. consultations	16
4. Preparation for exercise classes	30
5. Preparation for the credit of lectures	30
6. Preparation for the credit of exercise classes	25
7. the credit of lectures	2
8. the credit of exercise classes	2

Student's workload

Source of workload	hours	ECTS					
Total workload	127	5					
Contact hours	42	1					
Practical activities	62	2					