		STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Mathematics			Code 1011101211011000063		
Field o	f study		Profile of study	Year /Semester	
Safe	ety Engineering -	Full-time studies - First-	(general academic, practical) (brak)	1/1	
Electiv	e path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle	of study:		Form of study (full-time,part-time)		
First-cycle studies			full-time		
No. of	hours			No. of credits	
Lectu	ire: 15 Classes	s: 30 Laboratory: -	Project/seminars:	5	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another fiel	d)	
		(brak)	(brak)		
Educat	tion areas and fields of sci	ence and art		ECTS distribution (number and %)	
	Piotrowo 3A, 60-965 P equisites in term	oznań; is of knowledge, skills and	d social competencies:		
1	Knowledge	Basics of mathematics - secondary	ary school level.		
2	Skills	Efficient calculating	ulating		
3	Social competencies	Logical and scientific thinking			
Assı	imptions and obj	ectives of the course:			
		ducing basic terms from the area of ics and for using mathematics in n		competences for solving	
	Study outco	mes and reference to the	educational results for a	field of study	
Kno	wledge:				
	the basic knowledge opes [K1A_W01]	on the character of managerial scie	ence and it?s place in relations w	rith contextual and ergologica	
[K1A_	W11]	ments for collecting data, process		· ·	
pheno	mena occurring in orga	ments of descriptive statistics, as anizations - [K1A_W12]		•	
4. kno	ws methods and instru	ments 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]

Social competencies:

- 1. 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]

Assessment methods of study outcomes

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	15
2. exercises	30
3. consultations	15
4. Preparation for exercise classes	20
5. Preparation for the credit of lectures	20
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	129	5		
Contact hours	64	2		
Practical activities	47	2		