STUDY MODULE DESCRIPTION FORM							
	the module/subject			Code 1011101321011000063			
Field of Engi		ment - Full-time studies -	Profile of study (general academic, practical <b>(brak)</b>	Year /Semester			
	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory			
Cycle of	study:		Form of study (full-time,part-time)				
	First-cyc	le studies	full-time				
No. of h	ours			No. of credits			
Lectur	e: 15 Classes	s: <b>30</b> Laboratory: -	Project/seminars:	- 5			
Status of the course in the study program (Basic, major, other) (university-wide, from another fiel (brak) (k			field) (brak)				
Educatio	on areas and fields of sci	· · · ·		ECTS distribution (number			
				and %)			
Responsible for subject / lecturer:							
Institute of Mathematics email: e-mail: office_@math.put.poznan.pl. tel. (0-prefiks-61) 6652 320, fax: (061) 665 2348; Faculty of Electrical Engineering ul. Piotrowo 3A, 60-965 Poznań;							
Prere	quisites in term	s of knowledge, skills an	d social competencies:	:			
1	Knowledge	Student has basic knowledge on mathematical analysis					
2	Skills	Student is able to use a calculate	or efficiently				
3	Social competencies	Student understands the need of lifelong learning					
	• •	ectives of the course:					
Acquiri	ng and consolidating	of basic mathematical concepts us	sing examples and skills in mat	hematical tools.			
	Study outco	mes and reference to the	educational results for	a field of study			
Know	/ledge:						
	the basic knowledge o es - [K1A_W01]	on the character of managerial science	ence and it?s place in relations	with contextual and ergological			
2. knov [K1A_V		ments for collecting data, process	ing and selecting it and for dist	tributing information -			
3. knov	vs methods and instru	ments of descriptive statistics, as anizations - [K1A_W12]	well as their application in mod	lels of processes and			
Skills							
	et o use own knowled t results - [K01_Inz/	dge of mathematics in order to ma A_U1]	ke simulations and then, make	a logical concluding and			
•	2. is able to use analytical and simulation methods in forming and solving engineer tasks - [K01_InżA_U2]						
3. is able to solve engineer project tasks with use of mathematical rules - [K01_InżA_U6, K01_InżA_U7]							
Social competencies:							
1. understands the necessity of expanding own mathematical knowledge - [K1A_K01]							
2. is ab	le to prepare and real	lize different engineer ventures inc	dividually and in a team - [K1A	_K02, K1A_K07]			
Assessment methods of study outcomes							

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Forming assessment:		
a) exercises: on basis of the current progress of the realization of topic	s 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 p	bassing exercises.	
Course descrip	otion	
Elements of the integral calculus of functions of single variable.		
Series of numbers.		
Ordinary Differential Equations.		
Functions of several variables.		
Basic bibliography:		
Additional bibliography:		
Result of average stude	nt's workload	
Activity		Time (working
Activity		hours)
1. lecture		15
2. classes		30
3. consultations		30
4. student		20
5. exam		5
Student's work	load	
Source of workload	hours	ECTS
Total workload	110	5
Contact hours	75	3

80

3

Practical activities