Poznan University of Technology Faculty of Engineering Management

STUDY MODULE DESCRIPTION FORM							
Name of the module/subject Mathematics			Code 1011101321010340063				
Field of study Engineering Management - Full-time studies - Elective path/specialty			Profile of study (general academic, practical) general academic Subject offered in: Polish	Year /Semester 1 / 2 Course (compulsory, elective) obligatory			
Cycle of study:			Form of study (full-time,part-time)				
First-cycle studies			full-time				
No. of h				No. of credits			
Lectu	Clabbook		Project/seminars:	5			
Status	Status of the course in the study program (Basic, major, other) (university-wide, from another field)						
F-14		other	univer	sity-wide			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techr	nical sciences			2 40%			
	Il sciences			3 60%			
Responsible for subject / lecturer: Responsible for subject / lecturer:							
	Grzegorz Grzegorczyk		Małgorzata Zbąszyniak				
	ail: grzegorz.grzegorcz 61 665 26 87	yk@put.poznan.pi	email: malgorzata.zbaszyniak@put.poznan.pl tel. 61 665 27 12				
-	dział Elektryczny		Wydział Elektryczny				
ul. F	Piotrowo 3A 60-965 Po	oznań	ul. Piotrowo 3a, 60-965 Poznań				
Prere	quisites in term	s of knowledge, skills an	d social competencies:				
1	Knowledge	Basic knowledge from first semester.					
2	Skills	The ability to think logically. Ability to describe simple problems in mathematical language.					
3	Social competencies	Working in a group.					
Assu	mptions and obj	ectives of the course:					
Acquir	ing and consolidating	of basic mathematical concepts us	sing examples and skills in mathe	matical tools.			
	Study outco	mes and reference to the	educational results for a	field of study			
Knov	vledge:						
1. Has	knowledge of selected	d branches of higher mathematics	- [K1A_W01]				
		s to solve selested technical probl	ems - [K1A_W01]				
Skills							
Able to use the basic knowledge of mathematics as a tool in logistics - [K1A_U09] Able to perform studies using mathematical tools - [K1A_U09]							
	Able to perform studies using mathematical tools - [K1A_U09] Social competencies:						
	•		wlodgo [T1A KO1]				
	He understands the need to deepen their mathematical knowledge - [T1A_KO1] Is conscious of the need for learning throughout life - [T1A_KO1]						
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	Assessment methods of study outcomes
Tests, written and oral exam.	
	Course description

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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 student's workload						
Activity		Time (working hours)				
Activity 1Lectures						
		hours)				
1. Lectures		hours)				
1. Lectures 2. Classes		30 15				
Lectures Classes Consultation		hours) 30 15 15				
Lectures Classes Consultation Preparing to classes		hours) 30 15 15				
1Lectures 2. Classes 3. Consultation 4. Preparing to classes 5. Preparing to pass the lectures	ad	hours) 30 15 15 15 23				
1Lectures 2. Classes 3. Consultation 4. Preparing to classes 5. Preparing to pass the lectures 6. Exam	ad hours	hours) 30 15 15 15 23				
1Lectures 2. Classes 3. Consultation 4. Preparing to classes 5. Preparing to pass the lectures 6. Exam Student's worklo		hours) 30 15 15 15 23 2				
1Lectures 2. Classes 3. Consultation 4. Preparing to classes 5. Preparing to pass the lectures 6. Exam Student's worklo Source of workload	hours	hours) 30 15 15 15 23 2 ECTS				