		STUDY MODULE D	ES	CRIPTION FORM			
Name of the module/subject  Mathematics					Code <b>101</b>	1101421011000063	
Field of	•	ctudios - Eirst ovolo studi	00	Profile of study (general academic, practical)	,	Year /Semester	
Logistics - Full-time studies - First-cycle studie			62	(brak) Subject offered in: Polish	(	1 / 2 Course (compulsory, elective) obligatory	
Cycle of	f study:	_	For	m of study (full-time,part-time)		obligatory	
First-cycle studies				full-time			
No. of h		s: <b>30</b> Laboratory: -		Project/seminars:	-	No. of credits	
Status c	of the course in the study	program (Basic, major, other)	(	university-wide, from another fi	eld)		
		(brak)			bra	k)	
Education areas and fields of science and art						ECTS distribution (number and %)	
tel. 6 Wyd ul. F	ail: grzegorz.grzegorcz 61 665 26 87 dział Elektryczny Piotrowo 3A 60-965 Po equisites in term	oznań is of knowledge, skills and		<u> </u>			
1	Knowledge	Basic knowledge from first seme	ester				
2	Skills	The ability to think logically. Abil	ity to	describe simple problems	in ma	athematical language.	
3	Social competencies	Working in a group.					
Assu	mptions and obj	ectives of the course:					
Acquiri	ng and consolidating	of basic mathematical concepts us	sing	examples and skills in math	nema	tical tools.	
	Study outco	mes and reference to the	ed	ucational results for	a fie	eld of study	
Know	vledge:						
	<u> </u>	d branches of higher mathematics	-				
		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]							
Social competencies:							
	He understands the need to deepen their mathematical knowledge - [ T1A_KO1]						
	2. Is conscious of the need for learning throughout life - [ T1A_KO1]						

	Assessment methods of study outcomes
Tests, written and oral exam.	
	Course description

## Poznan University of Technology Faculty of Engineering Management

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