

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Mathematics		Code 1011105311011000063
Field of study Engineering Management - Part-time studies -	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 1
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: 10 Classes: 10 Laboratory: - Project/seminars: -		No. of credits 4
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: Mariola Skorupka email: mariola.skorupka@put.poznan.pl tel. 61 665 23 53 Wydział Elektryczny ul. Piotrowo 3a, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge mathematics with range of secondary school.
2	Skills	The ability to think logically. Ability to describe simple problems in mathematical language.
3	Social competencies	Working in a group.
Assumptions and objectives of the course: Acquiring and consolidating of basic mathematical concepts on examples and skills in mathematical apparatus.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Has knowledge of selected aspects of higher mathematics - [T1A_WO1]		
2. Application of mathematics to solve technical problems - [T1A_WO1]		
Skills:		
1. Can use basic knowledge of mathematics as a tool in management - [T1A_UO9]		
2. Can perform studies using mathematical apparatus - [T1A_UO9]		
Social competencies:		
1. Understand and apply formal mathematical apparatus in management - [T1A_KO4]		
Assessment methods of study outcomes		
Tests, written and oral exam		
Course description		

<p>Elements of linear algebra. Sequences and their limits. The functions of single variable. Continuity and limit of functions of single variable. Elements of the differential calculus of functions of single variable.</p>		
<p>Basic bibliography:</p>		
<p>Additional bibliography:</p>		
<p>Result of average student's workload</p>		
<p>Activity</p>	<p>Time (working hours)</p>	
1. Lectures	10	
2. Classes	10	
3. Consultation	15	
4. Preparing to classes	10	
5. Preparing to pass the lectures	10	
6. Preparing to pass the classes	10	
7. Pass classes	2	
8. Pass lectures	2	
<p>Student's workload</p>		
<p>Source of workload</p>	<p>hours</p>	<p>ECTS</p>
Total workload	69	4
Contact hours	39	2
Practical activities	34	2