Poznan University of Technology Faculty of Engineering Management

Name of the module/subject Mathematics	STUDY MODULE DESCRIPTION FORM							
Field of study Logistics - Full-time studies - First-cycle studies Elective path/specialty - Form of study (full-time, part-time) First-cycle studies No. of hours Lecture: 30 Classes: 15 Laboratory: - Project/seminars: - 4 Status of the course in the study program (Basic, major, other) other winiversity-wide, from another field technical sciences Responsible for subject / lecturer: Grzegorz Grzegorczyk email: grzegorz grzegorczyk@put.poznan.pl tel. of 1665 26 87 Wydzial Elektryczny University-wide Rowledge Skills The ability to think logically. Ability to describe simple problems in mathematical language. Sassumptions and objectives of the courses Study outcomes and reference to the educational results for a field of study Knowledge: 1. Has knowledge of selected aspects of higher mathematics a tool in management - [T1A_UO9] Scolal competencies: 1. Can use basic knowledge of mathematics as a tool in management - [T1A_UO9] Scolal competencies: Study outcomes and mathematics as a tool in management - [T1A_UO9] Scolal competencies: Study outcomes and reference to the educational results for a field of study Knowledge: 1. Can use basic knowledge of mathematics as a tool in management - [T1A_UO9] Scolal competencies:	·							
Elective path/aspecially Subject offered in: Subject offered in: Polish Po					Profile of study			
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Social competencies:								
1. Understand and apply formal mathematical apparatus in management - [T1A_KO4]								
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Assessment methods of study outcomes					
Tests, written and oral exam					
Course description					

Faculty of Engineering Management

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.

Basic bibliography:

1. Foltyńska, Z. Ratajczak, Z. Szafrański, Matematyka dla studentów uczelni technicznych, WPP Poznań 2000

Additional bibliography:

1. W. Krysicki, L. Włodarski, Analiza matematyczna w zadaniach, PWN Warszawa 1999

Result of average student's workload

Activity	Time (working hours)
1. Lectures	30
2. Classes	15
3. Consultation	15
4. Preparing to classes	15
5. Preparing to pass the lectures	15
6. Preparing to pass the classes	16
7. Pass classes	2
8. Pass lectures	2

Student's workload

Source of workload	hours	ECTS			
Total workload	110	4			
Contact hours	64	2			
Practical activities	46	2			