COURSE DESCRIPTION CARD - SYLLABUS

Course name
Mathematics [S1TCh2E>MAT1]

Course

Field of study
Chemical Technology

Year/Semester
1/1

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
English

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
30

Laboratory classes
0

Other
0

Tutorials
30

Projects/seminars
0

Number of credit points

5,00

Coordinators

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Lecturers

Prerequisites

Student should have basic knowledge on the high school level.

Course objective

The aim of the subject is presentation of a basic knowledge of calculus, linear algebra, ordinary differential equations. The scope of material is closely connected with other specialized courses and is going to allow student to comprehend analysed problems.

Course-related learning outcomes

none

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:
Written exam from lecture part. Written tests within the term.

Programme content

none

Course topics

none

Teaching methods

Lecture: traditional form given on the blackboard with discussion.
Lab classes: solving problems and exercises.

Bibliography

Basic
1. M. Lassak, Matematyka dla studiów technicznych, Wyd. Supremum, Warszawa 2014
2. W. Krysicki, L. Włodarski, Analiza matematyczna w zadaniach cz. 1 i 2, PWN, Warszawa 2005
3. M. Gewert, Z. Skoczylas, Równania różniczkowe zwyczajne, GiS, Wrocław 2016
4. M. Gewert, Z. Skoczylas, Analiza matematyczna 1, GiS, Wrocław 2020
5. M. Gewert, Z. Skoczylas, Algebra i geometria analityczna, GiS, Wrocław 2020
Additional
2. M. Gewert, Z. Skoczylas, Elementy analizy wektorowej, GiS, Wrocław 2004
3. E. Kasperska, A. Kasperski, B. Piątek, Przewodnik do ćwiczeń z algebry z elementami logiki matematycznej i teorii mnogości, Wyd. Politechniki Śląskiej, Gliwice 2016

Breakdown of average student's workload

	Hours	ECTS
Total workload		
Classes requiring direct contact with the teacher		
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)		