

Title Mathematics (Matematyka II)	Code 1010401121010340616
Field Edukacja Techniczno-Informatyczna	Year / Semester 1 / 2
Specialty -	Course core
Hours Lectures: 2 Classes: 2 Laboratory: - Projects / seminars: -	Number of credits 5
	Language polish

Lecturer:

dr, Ewa Schmeidel, eschmeid@math.put.poznan.pl

Faculty:

Faculty of Technical Physics
ul. Nieszawska 13A
60-965 Poznań
tel. (061) 665-3160, fax. (061) 665-3201
e-mail: office_dtpf@put.poznan.pl

Status of the course in the study program:

Core course of the study for ETI, Faculty of Technical Physics.

Assumptions and objectives of the course (in the form of learning outcomes):

Knowledge improvement in basic math concepts and making use of some math results in solving problems.

Contents of the course (course description):

Vectors in (dot and cross vector products). Lines and planes in . The definite integral, area. Properties of definite integral. The Fundamental Theorem of Calculus. Infinite integrals. Double integral. Double integral in polar coordinates. Applications of double integral. Infinite series. Taylor and Maclaurin Series. Differential equations. Exact differential equations. Homogeneous differential equations. First order differential equations. Bernoulli difference equations.

Introductory courses and the required pre-knowledge:

Basic math knowledge on high school level and a the first semester.

Courses form and teaching methods:

Lectures, exercises.

Form and terms of complete the course - requirements and assessment methods:

Tests, oral examination.

Basic Bibliography:

-

Additional Bibliography:

-