

Title (Chemia)	Code 10103143110107101024
Field Power Engineering	Year / Semester 1 / 1
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

prof. dr hab. Andrzej Lewandowski
Instytut Chemii i Elektrochemii Technicznej

Faculty:

Faculty of Electrical Engineering
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Status of the course in the study program:

Basic

Assumptions and objectives of the course:

General aim of the course is knowledge of basic chemical rules such as: chemical equilibrium, energetics of chemical reaction, kinetics.

Contents of the course (course description):

Chemical thermodynamics, reaction equilibrium, energy exchanged during chemical reaction. Kinetics of reaction - order, activation energy. Explosion and stationary reaction. basic electrochemistry. Corrosion. Fuels (fossil and synthetic). Conversion of solid and gas fuels to liquid ones. Cooling fluids (especially water) for heat engines.

Introductory courses and the required pre-knowledge:

Basic knowledge of chemistry

Courses form and teaching methods:

Lecture (with the help of audio visual technique). Chemical laboratory practise.

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

Obligatory minimum of laboratory practice together with an oral discussion

Basic Bibliography:

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Additional Bibliography:

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