Title	Code
Physics	**1010701211010700386**
Field: **Chemical Technology**	Year / Semester: **1 / 1**
Specialty: **-**	Course: **core**
Hours: Lectures: **3** Classes: **1** Laboratory: **-** Projects / seminars: **-**	Number of credits: **7**
	Language: **polish**

Lecturer:

prof. dr hab. Maciej Oszwałdowski
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Faculty:

Faculty of Chemical Technology
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Status of the course in the study program:

general/basic

Assumptions and objectives of the course:

students should obtain knowledge of fundamentals physical phenomena and their theoretical descriptions on the academic level in the fields of: mechanics, heat, molecular physics and gravitation field, electrodynamics, wave and corpuscular nature of light and matter.

Contents of the course (course description):

mechanics, kinematics and dynamics of progressive, rotational and oscillation motion. Simple machines. Equilibrium of right body. Gravitation. Statistics and dynamics of fluids. Heat and laws of thermodynamics. Harmonic motion and waves - acoustics. Electric and magnetic properties of matter. Electromagnetic waves. Geometrical optics. Nuclear physics - natural and artificial radioactivity. Topics of semiconducting physics. The basics of quantum mechanics.

Introductory courses and the required pre-knowledge:

basic knowledge of physics - secondary school level.

Courses form and teaching methods:

lectures supported by experiments and computer simulations of phenomena, calculation exercises

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

solution of objectives in writing, oral examination

Basic Bibliography:

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Additional Bibliography:

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