

Course title Fizyka II / Physics II		ECTS code 7.2.0616	
Name of unit administrating study			
Faculty of Chemistry			
Studies			
Field of study	Type	Form	
Environmental Protection	Bachelor	Full-time studies	
Teaching staff Prof. dr hab. Stanisław Pogorzelski			
Forms of classes, the realization and number of hours		ECTS credits 3	
A. Forms of classes, in accordance with the UG Rector's regulations lecture, audytorium classes		classes - 30 h tutorial classes - 15 h student's own work - 105 h TOTAL: 150 h - 6 ECTS	
B. The realization of activities In-class learning			
C. Number of hours lecture 15 h, audytorium classes 15 h			
The academic cycle 2019/2020 winter semester			
Type of course obligatory		Language of instruction Polish	
Teaching methods <ul style="list-style-type: none"> • Discussion • Case studies • Lectures including multimodal presentations conversation lecture		Form and method of assessment and basic criteria for evaluation or examination requirements	
		A. Final evaluation, in accordance with the UG study regulations Course completion (with a grade), exam	
		B. Assessment methods Written exam egzamin pisemny (longish written statement /solving the problem)	
		C. The basic criteria for evaluation or exam requirements Activity during classes and mastering the content covered by the lecture subject program provided.	
Required courses and introductory requirements Any first-cycle degree student can attend classes Basic knowledge of mathematics and physics at the secondary school level			
Aims of education The aim of the subject is to learn and understand the basic physical phenomena which stand for the background to interpret the observed phenomena in nature. Own problem solving related to physical constants determination is also possible.			
Course contents 1. Basic information from mechanics (kinematics and dynamics) 2. Electromagnetic waves and their application 3. Molecular structure of bodies			

4. Hydrodynamics and hydrostatics

5. Thermodynamics

6. Acoustics and optics

7. Basis of modern physics

Bibliography of literature

A. Literature required to pass the course

1. B. Jaworski - Kurs Fizyki, PWN 1979

2. D. Halliday i R. Resnick - Fizyka

3. J. Heldt - skrypt

B. Extracurricular readings