

Title Elements of Modern Physics (Elementy fizyki współczesnej)	Code 1010401131010430741
Field EDUCATION IN TECHNOLOGY AND INFORMATICS	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 2 Classes: 2 Laboratory: - Projects / seminars: -	Number of credits 5
	Language polish

Lecturer:

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Status of the course in the study program:

Core course of the study for Education in Technology and Informatics, Faculty of Technical Physics.

Assumptions and objectives of the course:

obtaining knowledge of the chosen approaches to contemporary physics and obtaining expertise of the physical phenomena analysis and solving technological problems based on the contemporary physics achievements by the students

Contents of the course (course description):

elements of relativistic mechanics, photons and matter waves, elements of quantum mechanics, structure of matter, basics of laser physics, metals and semiconductors, applications of semiconductors, elements of nuclear physics, basics of the elementary particles theory

Introductory courses and the required pre-knowledge:

experimental physics in the scope of the basic course of physics for the branch of edukacja techniczno-informacyjna

Courses form and teaching methods:

lectures, calculation exercises

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

written test, written and oral examination

Basic Bibliography:

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Additional Bibliography:

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