

Title <b>Experimental Physics I (Fizyka doświadczalna I)</b>	Code <b>1010401221010410172</b>
Field <b>Technical Physics</b>	Year / Semester <b>1 / 2</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>4</b> Classes: <b>4</b> Laboratory: -    Projects / seminars: -	Number of credits <b>9</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

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

**Assumptions and objectives of the course:**

the students should obtain knowledge of fundamentals physical phenomena and their theoretical descriptions on the academic level in the fields of: electrodynamics, wave and corpuscular nature of light and matter

**Contents of the course (course description):**

electric and magnetic field, dielectrics, magnetic properties of matter, electromagnetic oscillations, Maxwell equations, electromagnetic waves, geometrical optics, quantum model of light, wave properties of particles

**Introductory courses and the required pre-knowledge:**

knowledge obtained during experimental physics course 1 and fundamentals of physics on the high 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:**

oral examination, solution of objectives in writing

**Basic Bibliography:**

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**Additional Bibliography:**

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