

Title Pre-diploma Seminar (Seminarium przeddyplomowe)	Code 1010401261010430716
Field TECHNICAL PHYSICS	Year / Semester 3 / 6
Specialty -	Course core
Hours Lectures: - Classes: 2 Laboratory: - Projects / seminars: -	Number of credits 4
	Language polish

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:

Students will get familiar with new materials, technologies and experimental techniques connected with condensed matter.

Contents of the course (course description):

Students will obtain knowledge of various experimental techniques focused on functional materials and condensed matter spectroscopy being used in characterization as well as studies of the physical phenomena in different materials and macro-, micro and nanostructures. Presentation in seminar form different methods and experimental techniques used in study being the subject of Diploma Thesis. Discussion about basic physical problems as a preparation to the final examination.

Presentation using multimedia and discussion of the preliminary results obtained ? connected with the research subject of Diploma Thesis.

Introductory courses and the required pre-knowledge:

Knowledge of experimental physics connected with the aim of diploma thesis and introduction to the higher mathematics.

Courses form and teaching methods:

Seminar with help of multimedia and virtual experiments

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

Evaluation of the theoretical and practical skills. Quality of the multimedia presentation.

Basic Bibliography:

1. Literature (handbooks and scientific papers) connected with the speciality proper to the diploma subject
2. D. Holiday, R. Resnick, J. Walker , ?Fundamentals of Physics?, vol. 1-5, Wiley&Sons Inc., NYC 2001.
3. H. D. Young, R. A. Freedman, A. L. Ford, ?University Physics?, Person International Edition, San Francisco 2008.

Additional Bibliography:

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