



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Specialist practice

Course

Field of study

Technical Physics

Area of study (specialization)

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr Aleksander Skibiński

Responsible for the course/lecturer:

Wydział Inżynierii Materiałowej i Fizyki

Technicznej

ul. Piotrowo 3, 60-965 Poznań

Prerequisites

The student has basic advanced knowledge resulting from the implementation of the study program for the field of Technical Physics in the group of basic, major and specialty subjects. The student has knowledge of the applicable rules for the implementation of internships. He knows the internship regulations and the conditions for passing them. The student has the skills resulting from the implementation of the study program for the field of Technical Physics in the group of basic, major and specialty subjects. The student has the ability to creatively use the knowledge acquired during studies. The student has social competences resulting from the implementation of the study program for the field of Technical Physics in the group of basic, major and specialty subjects. The student is able to work in a working group. Can transparently distribute tasks in the group. Is able to correctly interpret and perform the received tasks.



Course objective

Verification of the theoretical knowledge possessed by the student with reality and gaining new experiences supporting the implementation of the master's thesis.

Course-related learning outcomes

Knowledge

1. knows the methods of using selected elements in the fields of exact and technical sciences [K2_W01], [K2_W02], [K2_W03], [K2_W04], [K2_W07], [K2_W08], [K2_W10].
2. has knowledge of specialized issues of the selected department of physics, mechanics, computer science, control systems and measurement systems [K2_W04], [K2_W05], [K2_W09], [K2_W11].
3. knows typical engineering technologies in the field of the studied field and is familiar with the latest development trends in the field of the field of study [K2_W10], [K2_W08], [K2_W02].

Skills

1. can use the tools of numerical and experimental methods to solve selected engineering problems [K2_U01], [K2_U14], [K2_U15], [K2_U17] ...
2. can formulate a research (engineering) problem, can arrange an algorithm, select a programming environment and mathematical tools, carry out and develop documentation on the implementation of an engineering problem study [K2_U01], [K2_U11], [K2_U12], [K2_U14], [K2_U20].
3. can use technical and experimental devices and interpret the obtained research results [K2_U14], [K2_U1, K2_U18], [K2_U21].
4. Can apply the principles of occupational health and safety [K2_U17].

Social competences

1. knows the limitations of his own knowledge and understands the need for further education [K2_K04].
2. has the ability to work in a team and to think and act in an entrepreneurial way [K2_K02], [K2_K03].
3. is aware of taking responsibility for the tasks carried out during work. Understands the importance of intellectual honesty in the actions of their own and other people [K2_K06], [K2_K07].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit for internships on the basis of:

1. Implementation of tasks set in the internship program.
2. Practice reports certified by the internship supervisor (supervisor).
3. Questionnaires describing the achieved learning outcomes.

Programme content



1. Training in occupational health and safety and fire regulations.
2. Acquainting with the structure and functioning of the place of apprenticeship.
3. Implementation of an individual internship program under the supervision of the tutor / supervisor.
4. Preparation of a report on the course of internships.

Teaching methods

Bibliography

Basic

1. Regulations for the organization of student internships covered by the study program at the Faculty of Technical Physics of the Poznań University of Technology
2. Regulations of full-time and part-time first and second cycle studies adopted by the Academic Senate of the Poznań University of Technology.

Additional

1. Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general provisions on health and safety at work. Journal of Laws 1997 no. 129 item 844.

Breakdown of average student's workload

	Hours	ECTS
Total workload	80	2,0
Classes requiring direct contact with the teacher	40	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	80	2,0

¹ delete or add other activities as appropriate