



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Electrical Engineering

Area of study (specialization)

Systemy Pomiarowe w Przemysle i Inzynierii Biomedycznej

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

30

Number of credit points

15

Lecturers

Responsible for the course/lecturer:

dr inż. Arkadiusz Hulewicz

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tel. 61 665 2546

Faculty of Control, Robotics and Electrical Engineering

ul. Piotrowo 3A, 60-965 Poznań

Responsible for the course/lecturer:

dr hab. inż. Grzegorz Wiczyński

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tel. 61 665 2639

Faculty of Control, Robotics and Electrical Engineeringul.

Piotrowo 3A, 60-965 Poznań

Prerequisites

Basic knowledge in the scope of the speciality modules. Ability to realize measurements of basic electrical and nonelectrical quantities and realize the efficient self-education in the area related to the chosen field and speciality of studies. Ability to work as a team and awareness of the necessity of broadening of the knowledge and skills.

Course objective

Knowledge of selected problems related to gathering of the indispensable materials and knowledge of principles concerned the diploma thesis preparation/editing and preparation to the diploma exam.

Course-related learning outcomes

Knowledge



1. Knowledge of trends to development and the most important new achievements in electrical engineering and - a bit less - in electronics, computer science, power industry.

Skills

1. Ability to collect information from the literature, data bases and other sources; ability to integrate, interpret and critically evaluate the obtained information as well as properly conclude, formulate and sufficiently justify opinions.
2. Ability to work independently and as a team, and ability to estimate time needed to realize the tasks provided for in the range of the diploma thesis; ability to manage a small team in a way making possible to accomplish the tasks in due time.
3. Ability to prepare and show a presentation on the subject of a given design or research and to have a discussion on this presentation.
4. Ability to plan the process of testing the complex electrical devices and systems.
5. Ability to integrate the knowledge in the scope of electrical engineering, electronics, computer science and automation, when to formulate and solve the tasks of modeling and design of the electrical elements, devices and systems.

Social competences

1. Understanding a need to formulate and propagate information and opinions relating the achievements made in the area of electrical engineering and other aspects of electrical engineer activity.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Continuous estimation of students activity and the increase of their knowledge, and the skills necessary to realize the diploma theses. Evaluation based on the obtained results and ability of their regular presentations. Evaluation of efficient application of the knowledge acquired to solve the given tasks.

Programme content

Students realize diploma theses which subjects refer to Division research areas. Students present reports referring to their MSc theses as well as research works conducted in the Division, taking into account a review and analysis of scientific literature. The selected problems related to the area of master's thesis. Arrangement of the tasks included in the subject of a given diploma thesis. Principles of preparing the bibliography. Editing and formatting master's thesis.

Teaching methods

Multimedia presentations expanded by examples shown on a board.

Bibliography

Basic

1. Bibliography recommended by a diploma thesis supervisor



Additional

1. Bibliography searched by a student.
2. <https://www.latex-project.org/about/>
3. <https://www.latex-tutorial.com/quick-start/>

Breakdown of average student's workload

	Hours	ECTS
Total workload	375	15,0
Classes requiring direct contact with the teacher	140	5,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	170	6,0

¹ delete or add other activities as appropriate