



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

### Course

Field of study

Electrical Engineering

Area of study (specialization)

lighting engineering

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

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

30

### Number of credit points

15

### Lecturers

Responsible for the course/lecturer:

Krzysztof Wanadchowicz, Ph.D, D. Sc., Eng.

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tel. 616652397

Faculty of Control, Robotics and Electrical  
Engineering

Piotrowo 3A Street, 60-965 Poznań

Responsible for the course/lecturer:

Małgorzata Zalesińska, D. Sc., Eng.

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Faculty of Control, Robotics and Electrical  
Engineering

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### Prerequisites

### Course objective

### Course-related learning outcomes

Knowledge

1. Has knowledge of new technologies and development directions of lighting engineering.



2. Has structured and theoretically founded knowledge in the design of electroheat or lighting devices and systems, including their environmental impact.

#### Skills

1. Is able to obtain information from literature, interpret it, draw conclusions, and formulate and comprehensively justify opinions on issues related to lighting engineering or electroheat.
2. Is able to prepare and present a presentation on the task being carried out and lead a discussion on an issue in the field of lighting engineering or electroheat, taking into account a diverse range of recipients.
3. Can read and understand professional literature in English in the field of lighting engineering or electroheat, and is able to prepare and give a presentation on the implementation of a project or research task.
4. Is able to apply a system approach when formulating and solving unusual engineering tasks in the field of lighting or electroheat technology. Include non-technical aspects in the design and operation of lighting or electroheat devices.
5. Can plan the process of assessing the quality of lighting of a selected object.
6. Is able to use knowledge outside of lighting engineering or electroheat to solve lighting or thermal issues and apply analytical, simulation and experimental methods.
7. Is able to assess the usefulness and possibility of using new technical and technological achievements in lighting design, if necessary, propose the optimal solution for the lighting system.

#### Social competences

1. Is aware of the need for systematic education and acquisition of knowledge about new technologies and compliance with the principles of professional ethics.

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Skills acquired as part of the project exercises are verified on the basis of the presentation of the results of the work carried out, evaluation of the student's activity and commitment, increase of his knowledge and skills.

#### Programme content

Preliminary definition of the subject of master's thesis. Determining the tasks covered by the subject of master's thesis. Discussion of selected issues in the field of diploma theses. Discussion of the principles of editing and formatting of the master's thesis. Discussion of the principles related to the preparation of bibliography, formatting drawings, diagrams, photographs and tables.

#### Teaching methods



Presentations of progress in research, analysis and discussion of various methods of solving the problem.

### Bibliography

Basic

1. Bibliography in the field of Master thesis recommended by the promoter.

Additional

1. Bibliography in the field of Master thesis recommended by the promoter.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	300	15,0
Classes requiring direct contact with the teacher	123	5,0
Student's own work (literature studies, preparation of a research stand, preparation of a research object, preparation of presentations on the progress of works) <sup>1</sup>	177	6,0

<sup>1</sup> delete or add other activities as appropriate