

## DESCRIPTION OF THE COURSES

- Course code: ELR2367
- Course title: Computer CAD systems for aided design electrical installations and devices
- Language of the lecturer: polish

<i>Course form</i>	<i>Lecture</i>	<i>Classes</i>	<i>Laboratory</i>	<i>Project</i>	<i>Seminar</i>
<i>Number of hours/week*</i>	<i>1</i>		<i>1</i>		
<i>Number of hours/semester*</i>	<i>11</i>		<i>11</i>		
<i>Form of the course completion</i>	<i>credit</i>		<i>credit</i>		
<i>ECTS credits</i>	<i>1</i>		<i>1</i>		
<b><i>Total Student's Workload</i></b>	<i>30</i>		<i>30</i>		

- Level of the course (basic/advanced): basic
- Prerequisites: Electrical devices - lecture and project.  
Name, first name and degree of the lecturer/supervisor: Kazimierz Herlender PhD
- Names, first names and degrees of the team's members:  
Henryk Markiewicz prof.  
Antoni Klajn PhD  
Waldemar Dołęga PhD  
Mirosław Kobusiński MSc
- Year: 6 Semester: 3
- Type of the course (obligatory/optional): optional
- Aims of the course (effects of the course): the course concerns the theoretical bases and the practical design the electrical lighting, project calculations and switchgear design with the software of the CAD/CAE type must be used.
- Form of the teaching (traditional/e-learning): traditional
- Course description: the course concerns the theoretical bases and the practical design the electrical devices and installations with the software of the CAD/CAE type must be used.
- Lecture:

<i>Particular lectures contents</i>	<i>Number of hours</i>
<i>1. Electrical lighting design – introduction</i>	<i>1</i>
<i>2. Electrical lighting design – theoretical bases</i>	<i>1</i>
<i>3. Electrical lighting design – software CAD/CAE</i>	<i>1,5</i>
<i>4. The project calculations – introduction</i>	<i>1</i>
<i>5. The project calculations – theoretical bases</i>	<i>1</i>
<i>6. The project calculations – software CAD/CAE</i>	<i>1,5</i>
<i>7. Control cabinet and switchgear design - introduction</i>	<i>1</i>
<i>8. Control cabinet and switchgear design - theoretical bases</i>	<i>1</i>
<i>9. Control cabinet and switchgear design - software CAD/CAE part 1</i>	<i>1</i>
<i>10. Control cabinet and switchgear design - software CAD/CAE part 2</i>	<i>1</i>

- Classes – the contents:

- Seminars – the contents:
- Laboratory – the contents:

<i>Particular laboratory contents</i>	<i>Number of hours</i>
1. <i>Electrical lighting design – part 1</i>	
2. <i>Electrical lighting design – part 2</i>	
3. <i>Electrical lighting design – part 3</i>	
4. <i>The project calculations – part 1</i>	
5. <i>The project calculations – part 2</i>	
6. <i>The project calculations – part 3</i>	
7. <i>Control cabinet and switchgear design - part 1</i>	
8. <i>Control cabinet and switchgear design - part 2</i>	
9. <i>Control cabinet and switchgear design - part 3</i>	
10. <i>Control cabinet and switchgear design - part 4</i>	

- Project – the contents:
- Basic literature:
  - 1) Markiewicz H.: Electrical installations, WNT Warszawa.
  - 2) Delivered by teacher materials.
- Additional literature:
  - 1) Trade periodicals: Elektroinstalator, Elektro Info.
- Conditions of the course acceptance/creditation: the presence on lectures and laboratories, the positive credit of individual projects.

\* - depending on a system of studies