

DESCRIPTION OF THE COURSES

- Course code: ELR2468
- Course title: **The electrical installations**
- 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>class test</i>			<i>completion</i>	
<i>ECTS credits</i>	<i>1</i>			<i>1</i>	
<i>Total Student's Workload</i>	<i>30</i>			<i>30</i>	

- Level of the course (basic/advanced): advanced
- Prerequisites: Credited Electrical Equipment
- Name, first name and degree of the lecturer/supervisor: Zbigniew Wróblewski, PhD, DSc
- Names, first names and degrees of the team's members:
Lech Danielski, PhD,
Ryszard Zacirka, PhD,
Marek Jaworski, PhD,
Marek Szuba, PhD.
- Year: 2 Semester: 4
- Type of the course (obligatory/optional): optional
- Aims of the course (effects of the course): Recognize requirements for electric installations and individual project of electric installation of residential building.
- Form of the teaching (traditional/e-learning): traditional
- Course description:
Basic definitions, classification. Requirements for electric installations. Calculating of expected current-carrying values. Industrial and municipal electrical networks. Power electrical installations, lighting installations, control- and signaling- installations. Electric installations in rooms and outdoor. Industrial and municipal electric installations. The new trends in building of industrial and municipal electric installations.

- Lecture:

<i>Particular lectures contents</i>	<i>Number of hours</i>
1. Electric installations: basic definitions, classification, requirements. Industrial electric networks systems.	2
2. Municipal supply networks. Principles of choosing of electrical networks system.	2
3. Electric installations in residential buildings. Electric equipment in residential buildings.	2
4. Calculating of expected current-carrying values in residential buildings.	2
5. Construction of industrial electric and lighting networks. Measurements for accounting of electric energy.	2

6. Standby electric supply systems.	<i>I</i>
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- Classes – the contents:
- Seminars – the contents:
- Laboratory – the contents:
- Project – the contents:

The students execute an individual project of electric installation of residential building e.g. habitable building (detached house or block of flats).

- Basic literature:

[1] Markiewicz H. Instalacje elektryczne. WNT, Warszawa 1996

- Additional literature:

[1] PN-IEC 60364:1999- 2000. Instalacje elektryczne w obiektach budowlanych

[2] Ustawa „Prawo budowlane” wraz z rozporządzeniami wykonawczymi

- Conditions of the course acceptance/creditation:

Completion of the course is confirmed on the basis of class test covering the whole material

* - depending on a system of studies