DESCRIPTION OF THE COURSES

- Course code: ELR2407
- Course title**: The electrical installations**
- Language of the lecturer: polish

Course form	***Lecture***	***Classes***	***Laboratory***	***Project***	***Seminar***
*Number of hours/week**	*1*			*1*	
*Number of hours/semester**	*15*			*15*	
Form of the course completion	*class test*			*completion*	
ECTS credits	*1*			*1*	
Total Student's Workload	*30*			*30*	

- 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: 5 Semester: 10
- 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:

Particular lectures contents	*Number of hours*
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.	*2*
6. Measurements for accounting of electric energy. Standby electric	*2*

supply systems.	
7. The new trends in building of industrial electric installations.	*2*

- 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/credition:

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

***** - depending on a system of studies