

## COURSE DESCRIPTION CARD

Faculty of Electrical Engineering									
Field of study	Electrical Engineering							Degree level and programme type	Bachelor's degree
Specialization/ diploma path	-							Study profile	-
Course name	Project of Electrical Installations in Industrial Building							Course code	IS-FEE-10044W
								Course type	elective
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	winter
				30				No. of ECTS credits	6
Entry requirements	-								
Course objectives	Teaching how to solve an engineering project task by means of the information obtained from literature, databases and other sources.								
Course content	Complete with module content: Rules and statutory regulations, Installed power loads – Characteristics, LV architecture selection guide, Lighting installations, Sizing and protection of conductors, Protection against electric shocks, LV switchgear: functions & selection, Overvoltage protection, Reactive energy								
Teaching methods	discussion, presentation								
Assessment method	projects completion, presentation and discussion of the projects								
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study	
L01	can elaborate and realize the schedule of actions necessary to achieve the goal								
L02	identifies and describes basic technical solutions in the area of the project								
L03	can calculate basic quantities describing operating simple systems connected with the area of the project								
L04	is able to obtain information from the literature, databases, and other sources for the project;								
L05	can design circuits and systems in chosen field of electrical engineering								
L06	is able to use the data sheets and application notes to								
L07	is able to prepare and present a short presentation on of the completed project.								
L08									
Symbol of learning outcome	Methods of assessing the learning outcomes							Type of tuition during which the outcome is assessed	
L01	project documentation and oral performance in project's classes								
L02	project documentation								

LO3	project documentation		
LO4	project documentation		
LO5	project documentation		
LO6	project documentation		
LO7	oral performance in project's classes		
LO8			
<b>Student workload (in hours)</b>		<b>No. of hours</b>	
<b>Calculation</b>	work on the project	130	
	consultations	30	
	preparation to the defence of the project	20	
		<b>TOTAL:</b>	<b>180</b>
<b>Quantitative indicators</b>		<b>HOURS</b>	<b>No. of ECTS credits</b>
<b>Student workload – activities that require direct teacher participation</b>		<b>30</b>	<b>1</b>
<b>Student workload – practical activities</b>		<b>180</b>	<b>6</b>
<b>Basic references</b>	1. Seip G.G.: Electrical Installations Handbook. John Wiley and Sons. Third Edition, 2000. 2. Atkinson Bill: Electrical installation design. John Wiley and Sons, Fourth Edition, 2013. 3. Standards IEC 60364:Low voltage installations 4. Electrical installation guide. According to IEC international standards. Schneider Electric. Edition 2016		
<b>Supplementary references</b>	1. Electrical installation handbook. Protection, control and electrical devices. Technical guide- 6-th edition 2010. ABB Sace		
<b>Organisational unit conducting the course</b>	<b>Department of Electrotechnics, Power Electronics and Power Engineering</b>	<b>Date of issuing the programme</b>	
<b>Author of the programme</b>	<b>Marcin A. Sulkowski PhD, Eng</b>	<b>13.01.2020</b>	

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work,

S – seminar