

## 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-10060S	
								Course type	elective	
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	summer	
				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 dokumentation									

LO3	project dokumentation	
LO4	project dokumentation	
LO5	project dokumentation	
LO6	project dokumentation	
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>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>Student workload – practical activities</b>		<b>180</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