		STUDY MODULE D			
	of the module/subject	lian		ode 10321371010322818	
Field of	•	iigii	Profile of study (general academic, practical)	Year /Semester	
Elec	trical Engineerii	ng	(brak)	4/7	
Electiv	e path/specialty	nting Engineering	Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle o	of study:	·····y _··y····y	Form of study (full-time,part-time)		
First-cycle studies			full-time		
No. of	hours			No. of credits	
Lecture: - Classes: - Laboratory: -			Project/seminars: 15	1	
Status	of the course in the study	y program (Basic, major, other)	(university-wide, from another field	,	
		(brak)	(bi	ak)	
Education areas and fields of science and art				ECTS distribution (number and %)	
technical sciences				1 100%	
	Technical sci	ences		1 100%	
Wy ul.	61 6652585 dział Elektryczny Piotrowo 3A 60-965 P		d againt competencia-		
1	Knowledge	quantities, lighting equipment a	ting engineering: the calculation an nd general requirements for lighting	g design. Basic knowledge of	
2	Skills	The ability to use knowledge in	omputer science, physics, electrical engineering and illuminating engineering. he ability to use knowledge in lighting engineering to carry out computations, measurement nd evaluation of lighting parameters. Ability to effectively self-education in a field related to		
3	Social competencies	Is aware of the need to broader	n their competence, willingness to v	vork together as a team.	
Δssi	•	jectives of the course:			
Knowl	edge of advanced me	ethods of lighting design. Understa	nding the basics of practical metho n the calculation of basic lighting q		
	Study outco	omes and reference to the	educational results for a	field of study	
Knov	wledge:			-	
1. Abl	-	describe advanced computer meth	nods of calculating the lighting quar	ntities	
Skill	s:				
		on of lighting quantities using com dards.  - [K_U13 ++, K_U17 ++]	puter aided design (CAD). Able to	do lighting design with regar	
Soci	al competencies	:			
includ	ing the impact of light		non-technical aspects of electrical nd the consequent responsibility fo _K01 ++, K_K03 ++]		
	-	· L ·	4		
		Assessment metho	ds of study outcomes		

Assessment of the knowledge and skills associated with the implementation of the project.

**Course description** 

Visualization of the luminance distribution.	alculations for typical indoor ligh	iting solutions.
Basic bibliography:		
1. Bąk J., Pabiańczyk W.: Podstawy techniki świetlnej. Wyd. Pol. Łóc	dzkiej, Łódź 1994.	
2. Żagan W.: Podstawy techniki świetlnej. Ofic. Wyd. Pol. Warszawski	kiej, Warszawa 2005.	
3. Normy przedmiotowe.		
4. Pracki P.: Projektowanie oświetlenia wnętrz. Oficyna Wyd.Politech	nniki Warszawskiej 2011, ISBN:	9788372079282.
Additional bibliography:		
1. Lighting Handbook, Reference & Application. IES of Nofth America	a, New York 2010	
Result of average stud	ent's workload	
Activity		Time (working hours)
1 Participation in project activities		,
1. Participation in project activities.     2. Participation in consultations		15
2. Participation in consultations.		,
	rkload	15 5
<ol> <li>Participation in consultations.</li> <li>Preparation of the concept and development of lighting design.</li> </ol>	rkload hours	15 5
<ol> <li>Participation in consultations.</li> <li>Preparation of the concept and development of lighting design.</li> <li>Student's wor</li> </ol>		15 5 15
2. Participation in consultations. 3. Preparation of the concept and development of lighting design. Student's wor Source of workload	hours	15 5 15 ECTS