		STUDY MODULE D	ESCRIPTION FORM	
Name of the module/subject			Code	
	nting design		Profile of study	10321361010326001 Year /Semester
Field of			(general academic, practical)	
	trical Engineeri	ng	(brak)	3/6
Electiv	e path/specialty	hting Engineering	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle o	of study:		Form of study (full-time,part-time)	<b>.</b>
	First-cy	cle studies	full-time	
No. of	hours			No. of credits
Lectu	re: - Classe	es: - Laboratory: -	Project/seminars: 30	2
Status of the course in the study program (Basic, major, other)			(university-wide, from another field)	
		(brak)	(br	
Educat	ion areas and fields of s	cience and art		ECTS distribution (number and %)
technical sciences				2 100%
Technical sciences				2 100%
-	Piotrowo 3A 60-965 F equisites in terr	<sup>p</sup> oznań ns of knowledge, skills an	d social competencies:	
1	Knowledge	quantities, lighting equipment a	ting engineering: the calculation and nd general requirements for lighting trical engineering and illuminating	design. Basic knowledge of
2	Skills		lighting engineering to carry out con neters. Ability to effectively self-edu	
3	Social		n their competence, willingness to w	ork together as a team.
	competencies			
	-	jectives of the course:	design methods. Understanding th	be basics of practical method
		is. Ability to perform the calculation		
	Study outco	omes and reference to the	educational results for a f	field of study
Knov	wledge:			
	e to characterize and 11 ++, K_W15 +++]	describe the basic computer method	od of calculating the lighting quantit	ies
Skill:				
1. Car	perform the calculat	ion of lighting quantities using avai - [K_U13 ++, K_U17 ++]	lable software. Is able to do lighting	project with regard to the
	al competencies			
1. Is a includ	ware of and understa	nds the importance and impact of	non-technical aspects of electrical end the consequent responsibility for _K01 ++]	
		Assessment metho	ds of study outcomes	

Oral and written examination, laboratory reports.

## **Course description**

software for lighting design. Making some example calculation for the buildings, industrial buildings, shops and stores, roads, parking, sport <b>Basic bibliography:</b>		fices, educational			
1. Bąk J., Pabiańczyk W.: Podstawy techniki świetlnej. Wyd. Pol. Łód	lzkiej, 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	niki Warszawskiej 2011, ISBN	: 9788372079282.			
Additional bibliography:					
1. Lighting Handbook, Reference &Application. IES of Nofth America, New York 2010					
Result of average stude	ent's workload	Time (working			
Activity		Time (working hours)			
1. Participation in project activities.	30				
2. Participation in consultations.	5				
3. Preparation of the concept and development of lighting design.	30				
Student's wor	kload				
Student S wor					
Source of workload	hours	ECTS			
	65	<b>ECTS</b>			
Source of workload					