STUDY MODULE DESCRIPTION FORM								
Name of the module/subject				Code				
Field of	study			Profile of study	Year /Semester			
Electrical Engineering				(general academic, practical) (brak)	3/6			
Elective path/specialty				Subject offered in:	Course (compulsory, elective)			
Light Engineering			<b>F</b>	polish	obligatory			
Cycle o			For	Form of study (full-time,part-time)				
	First-cyc	cle studies		full-time				
No. of h	iours			/ .	No. of credits			
Lecture Status (	fe: Classes	s: • Laboratory: •	I	Project/seminars:	<b>4</b>			
olaluo		(brak)	(	(k	(brak)			
Educati	on areas and fields of sci	ence and art			ECTS distribution (number			
techr	nical sciences							
teem	lical sciences				4 10078			
Resn	onsible for subi	ect / lecturer:						
email: Malgorzata Zalesińska PhD email: Malgorzata.Zalesińska@put.poznan.pl tel. 61 6652398 Electrical Engineering Piotrowo 3A Street, 60-965 Poznań								
Prere	equisites in term	is of knowledge, skills an	d so	ocial competencies:				
1	Knowledge	Knowledge of the basics of lighting engineering: the calculation and the measurement of light parameters, lighting equipment.						
2	Skills	The ability to use knowledge in lighting engineering to carry out computations, measurement and evaluation of lighting parameters. Ability to effectively self-education in a field related to the chosen field of study.						
3	Social competencies	Is aware of the need to broaden their competence, willingness to work together as a team.						
Assumptions and objectives of the course:								
Grounding knowledge of the physiology of vision, and the relationship between the basic lighting poarameters.								
Study outcomes and reference to the educational results for a field of study								
Knowledge:								
1. Describe the process of vision. List and describe the functions of the eye. Characterize the photometric properties of materials. Indicate the relationship between the parameters of light [K_W05 ++, K_W14 +, K_W15 +++]								
Skills:								
1. Assess the impact of lighting on the quality parameters of view. Analyze the results [K_U02 +++, K_U14 +++]								
	at competencies:	ate the work between teen memb	Darc	- [K_K03 +]				
I. ADIE			5615.	- [IV_IVU3 <b>T</b> ]				
Assessment methods of study outcomes								

## Assessment methods of

Lecture	:

assess the knowledge and skills listed on the written exam

Laboratory exercises:

assess the knowledge and skills associated with the implementation of the tasks your practice,

the assessment report performed exercise.

Get extra points for the activity in the classroom, especially for the following:

ability to work within a team performing a task specific practice in the laboratory;

developed aesthetic diligence reports and tasks, the self-study.

## **Course description**

The basic relationship between the photometric parameters, the spatial distributions of the photometric parameters. Vision system - structure and basic operations of the eye, visual way, the types of visual sensations. Photometric properties of materials. Glare in lighting.

## **Basic bibliography:**

- 1. Bąk J., Pabiańczyk W.: Podstawy techniki świetlnej. Wyd. Pol. Łódzkiej, Łódź 1994.
- 2. Żagan W.: Podstawy techniki świetlnej. Ofic. Wyd. Pol. Warszawskiej, Warszawa 2005
- 3. Laboratorium z techniki świetlnej. Praca zbiorowa. Wyd. Pol. Pozn. nr 1792, Poznań 1989.
- 4. Lighting Handbook, Reference &Application. IES of Nofth America, New York 2010

## Additional bibliography:

1. Hauser J.: Elektrotechnika ? Podstawy elektrotermii i techniki świetlnej, Wyd. PP, Poznań, 2006

Result of average stu	dent's workload	
Activity	Time (working hours)	
1. Participation in lecture classes	30	
2. Participation in laboratory activities	15	
3. Participation in consultation	20	
4. Homework	20	
5. Participation for an exam	15	
6. Exam	2	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	102	4
Contact hours	67	2
Practical activities	35	1