		STUDY MODULE D	ESC	RIPTION FORM			
Name of the module/subject Fundamentals of lighting engineering					Code 1010321271010320832		
Field of study			Profile of study (general academic, practical)		Year /Semester		
Electrical Engineering			(brak) 4 /		4/7		
Elective	path/specialty	ulat Francis a a visa er		Subject offered in:		Course (compulsory, elective)	
Cuala a		ht Engineering	Голи	polish		obligatory	
Cycle o	Form of study (full-time,part-time) First-cycle studies full-time		e				
No. of h	nours					No. of credits	
Lectu		s: - Laboratory: -	P	Project/seminars:	1	1	
	Clabbot	program (Basic, major, other)		niversity-wide, from another			
	· ·	(brak)		(brak)			
Educati	on areas and fields of sci	ence and art			•	ECTS distribution (number and %)	
techi	technical sciences					1 100%	
tel. Ele	email: Malgorzata.Zalesinska@put.poznan.pl tel. 61 6652398 Electrical Engineering Piotrowo 3A Street, 60-965 Poznań						
Prere	equisites in term	s of knowledge, skills an	d so	cial competencies	:		
1	Knowledge	Knowledge of the basics of light parameters, lighting equipment.		ngineering: the calculation	n and	d the measurement of light	
2	Skills		o use knowledge in lighting engineering to carry out computations, measurement ion of lighting parameters. Ability to effectively self-education in a field related to field of study.				
3	Social competencies	Is aware of the need to broaden their competence, willingness to work together as a team.					
Assu	mptions and obj	ectives of the course:					
Groun	ding knowledge of fund	damentals of lighting engineering.	•				
	Study outco	mes and reference to the	edu	cational results for	r a f	field of study	
Knov	vledge:						
1. List	and describe the meth	nod of calculation of basic lighting	paran	neters [K_W06 ++,K_W	V14 -	+, K_W15 +++]	
Skills	<u> </u>						
1. Perform calculations of basic lighting simplified methods [K_U17 ++, K_U22 +]							
Socia	al competencies:						
		knows the need continuous trainir					

Assessment methods of study outcomes		
Project:		
evaluate the knowledge and skills associated with the implementation of the project.		
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		
Calculation of lumines flux. Determination of illuminance by a point. Calculation of luminance		

Faculty of Electrical Engineering

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. Technika Świetlna ?09. Poradnik ? Informator. Wyd. PKOś, Warszawa 2009

Additional bibliography:

1. Lighting Handbook, Reference & Application. IES of Nofth America, New York 2010

Result of average student's workload

Activity	Time (working hours)
Participation in project activities	15
2. Participation in consultation.	10
3. Participation for colloquium	8
4. Colloquium	2

Student's workload

Source of workload	hours	ECTS
Total workload	35	1
Contact hours	27	1
Practical activities	17	1