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		STUDY MODULE D	ESC	RIPTION FORM			
Name of the module/subject Computer aided design				Code 1010322231010322818			
Field of	•			Profile of study (general academic, practica	al)	Year /Semester	
Electrical Engineering				(brak)		2/3	
Elective path/specialty Light Engineering				Subject offered in: polish		Course (compulsory, elective) obligatory	
Cycle o	f study:		Form	of study (full-time,part-time	e)		
Second-cycle studies				full-time			
No. of h	nours					No. of credits	
Lectu	re: - Classes	s: - Laboratory: -	F	Project/seminars:	1	1	
Status	of the course in the study	program (Basic, major, other)	(u	niversity-wide, from another	r field)		
		(brak)		(brak)			
Educat	Education areas and fields of science and art					ECTS distribution (number and %)	
technical sciences						1 100%	
ul. l	dział Elektryczny Piotrowo 3A 60-965 Po equisites in term	oznań ns of knowledge, skills an	nd so	cial competencies):		
1	Knowledge	Knowledge of the basics of lighting engineering and computer science. Knowledge of basic tools used in 3ds MAX program to create computer visualization of illumination.					
2	Skills	The ability to create objects and base of materials in 3ds MAX program. Ability to choose lighting equipment to create illumination of buildings. Ability to create lighting scene and computer visualizations.					
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:					
	edge of environment, I ations.	basic tools and possibilties of 3ds	MAX	program. Ability to create	e con	nputer visualizations of	
	Study outco	mes and reference to the	edu	cational results fo	r a f	ield of study	
Knov	vledge:					-	
1. Kno	_	ons and possibilities of 3ds MAX p	progra	m. Knowledge of lighting	g equ	ipment used to illuminate	
Skills		-					
Can create computer visualization of building - [KU_03++, KU_12]							
	Social competencies:						
includi		nds the importance and impact of rand lighting on the environment ar					

Assessment methods of study outcomes Assessment of the knowledge and skills associated with the implementation of the project. Course description

Understanding the issues related to computer visualizations of building's illumination. methods of calculate the lighting quantities. Practical test in the use of computer-aided design methods (CAD). Implementation of sample calculations for typical indoor lighting solutions. Visualization of the luminance distribution.

Faculty of Electrical Engineering

Basic bibliography:

- 1. Żagan W.:Iluminacja obiektów. Ofic. Wyd. Pol. Warszawskiej, Warszawa 2003.
- 2. Kelly L.Murdock 3ds MAX 2012 Helion 2012

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 consultations.	5
3. Preparation of the concept and development of computer visualization.	15

Student's workload

Source of workload	hours	ECTS
Total workload	35	1
Contact hours	20	1
Practical activities	35	1