

Name subjects :		Lighting in architecture		
Code subjects	Case status	Semester	Number of ECTS credits	Number of lessons (weekly)
PL10A1	Required	VIII	6	2P+2V

Study programs organized for : Faculty of Polytechnics , major Architecture and design

Conditionality other Subjects : None.

Idea studies subjects : Develop ability , creativity and consciousness at students for a new field that is large part design , and one of the key ones when it comes to architecture when it comes to aesthetics and functionalities . Explain correct application lighting in architecture and to present correct ways design and her/his influence on users .

Goals studies subjects : Goal this one The subject is to indicate on factors quality lighting and many requests about which designer lighting must be led account . On this subject students they have a chance to meet with numerous recommendations and guidelines for designing , making photometric budget , as and valid standards in the field lighting techniques and design . Nature is analyzed light as phenomenon and her influence on surfaces and objects with to whom comes into contact , design criteria lighting parameters quality lighting , as and effects that can be achieved . Quality lighting represents answer on human needs , needs space and needs objects , surfaces or objects that are illuminated - on certain place and in a certain moment . Lighting game vital role in the way to which people are experiencing and perceive architecture . Regardless to whether the objects are and structures illuminated natural or artificial with light , lighting is a medium that gives us allows us to see and we appreciate beauty in space around us .

Outcomes learning : A student who successfully overcome this one subject , will be able to :

1. R a s s i o n s influence lighting on people and architecture ;
2. R e l a t i o n s h i p s and application basic concepts design lighting following current standards ;
3. K r e i r a solution for current issues problems when it comes to lighting ;
4. P a r t i c i p a t e s in the development projects design lighting as and to use new software related to this area.

Name and last name teacher and associates : prof. Dr. Vladimir Mako Dipl. Eng . El. Igor Strugar, MSc. Arch. Nevena Lazarevic

Teaching method and overcoming materials : lectures , exercises , tests , seminar work.

WORK PLAN

Sunday :	Name methodological unit for lectures (P), exercises (V) and others teaching contents (O); Planned shape checks knowledge (Pz)	
And Sunday	P/V	Acquaintance + Introduction + illumination as material in architecture .
2nd -3rd week	P/V	Human-centric lighting , presentation realized projects as and reference examples correct lighting objects .
I V- VI week	P/V	Presentation and lecture on photometry devices + influence lighting on users space
VII-X week	P/V	Introduction to seminars works , division topic and talking about the same Introduction to photometrics programs
Week 10 - 13	P/V	More details explanation program DiaLux 4.13 / DiaLux EVO
14th week	P/V	Usage AutoCad and drawing lighting / Mode of operation of preliminary measurements and estimate / Lightbook
XV Sunday	P/V	Preparing for submission seminar papers / Exam preparation
XVI week	PZ	Final exam
I		Correctional deadline

Obligations student in progress classes : lectures , exercises , discussions , attendance , consultations .

Consultations by e- mail : YES

workload :

Sunday : 6 credits x 40/ 30 = 8 hours	In the semester : Total workload for the subject 6x30 = 180h
Structure : 2 hours lectures 2 hours exercise 4 hours independent work , including consultations .	Structure : Teaching and final exam : 8 hours x 16 weeks = 128 hours Necessary preparations before beginning semester (administration , enrollment , certification) : 8h x 2 = 16h Additional preparation work and laying remedial exam time : 0-36h

Literature :

" Guide" through world techniques lighting " , Miomir B. Kostic
MEST-EN12464-1 European standard on light and lighting – Lighting internal space

Shapes checks knowledge and evaluation :

Seminar paper 45%, final exam 45%, activity 10%.

Rating	10	9	8	7	6
Number point	90-100	80-89	70-79	60-69	50-59