

Name subjects :		ELECTRICAL ENGINEERING		
Code subjects	Case status	Semester	Number of ECTS credits	Number of lessons (weekly)
PO2E	Required	IV	4	2P+1V

Study programs for which it is organized : Polytechnic , general studies

Conditionality other Subjects : None.

Idea studies subjects : Electrical engineering is a science , a part of physics , which over time singled out from her and now represents separate scientific discipline . Division electrical engineering to the area of strong current and the area is weak electricity is traditional although and incomplete . Electrical engineering we can to divide on next units :

- energy who is having sex production and by transmission electric energy with one locations on another
- electronics deals with by studying and by construction electronic elements which are controlled flow currents
- physical electronics studies physical properties and working principle of passive and active electronic components and their application
- telecommunications are engaged in by transmission information with one places on other
- automation deals with by modeling system mathematical models works their describing and management the same
- computer The technique deals with by development and by design computer hardware and software , which controls his work.

Within course we will deal with primarily areas energy and telecommunications with with an accent on designing different type objects with efficiently use available literature and internet resources as and realization project tasks .

Goals studies subjects : To enable design student and management by process production energy and telecommunications installation in different species objects as and to bring him closer requirements which mentioned installations they are setting when she is alone construction the object in question

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

1. Understands basic principles design electrical engineering installation ;
2. Make a decision on the approach to solving certain problems optimal ;
3. Participates in the development complex projects and be able to critically attitude on the occasion the same .

Name and last name teacher and associates : Petar Krqušić, Ph.D. , Sabahudin Kujović, M.Sc

Teaching method and overcoming materials : lectures , homework tasks .

WORK PLAN

Sunday : *Name methodological unit for lectures (P), exercises (V) and others teaching contents (O); Planned shape checks knowledge (Pz)*

Preparatory Sunday		Introduction , preparation and enrollment semester .
And Sunday	P/V/O	Voltage drop and current burden cables .
II	P/V/O	Plug-in devices , fuses , switches .
III	P/V/O	Electrical lighting .
IV	P/V/O	Protection against electric shock and atmospheric complaints .
VI	PZ	Colloquium
VII	P/V/O	Impulse code modulation and digital systems transmission .
VIII	P/V/O	Network services .
IX	P/V/O	Systems technical protection .
X	P/V/O	Multimedia systems .
XVI	PZ	Final exam .
XVII		<i>Verification semester and enrollment rating</i>
XVIII		Correctional exam deadline

Obligations student in progress classes : lectures , exercises , discussions , projects tasks .

Consultations by e- mail : YES

Load student

<p style="text-align: center;"><u>Sunday</u></p> <p>4 credits x 40/30 = 5 hours 20 minutes (total Sunday burden</p> <p>Structure :</p> <p>2 hours lectures</p> <p>1 hour of exercise</p> <p>2 hours 20 minutes independent work, including consultations .</p>	<p style="text-align: center;"><u>in the semester</u></p> <p>Total workload for the subject 4x30 = 120h</p> <p>Structure :</p> <p>Teaching and final exam : 5h20min x 16 weeks = 85h 20min</p> <p>Necessary preparations before beginning semester (administration , enrollment , certification) : 5h20minx2=10h40min</p> <p>Additional preparation work and laying remedial exam time : 0-24h</p>
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Literature :

Mechanical and Electrical Equipment for Buildings

By Walter T. Grondzik, Alison G. Kwok, Benjamin Stein, John S. Reynolds; John Wiley & Sons

Script lectures

Shapes checks knowledge and evaluation :

Domestic assignments - 20 points , colloquium and final exam – 80 points (40+40)

Rating	A	B	C	D	E
Number point	90-100	80-89	70-79	60-69	50-59