

## **ELECTRICAL ENGINEERING**

(course title)

### **COURSE SYLLABUS ABSTRACT**

7-07-0732-01 Construction of buildings and structures

(speciality code and name)

Industrial and civil construction

(concentration)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	2	3	2
Semester	4	5	4
Lectures, hours	16	4	4
Practical classes (seminars), hours	16	4	4
Pass/fail, semester	4	5	4
Contact hours	32	8	8
Independent study, hours	76	100	100
Total course duration in hours / credit units	108/3		

#### Roads

(concentration)

	STUDY MODE	
	full-time	part-time (shortened program)
Year	2	2
Semester	4	4
Lectures, hours	16	4
Practical classes (seminars), hours	16	4
Pass/fail, semester	4	4
Contact hours	32	8
Independent study, hours	76	100
Total course duration in hours / credit units	108/3	

1. Course outline the purpose of the academic discipline is to develop knowledge among engineers in the field of electrical engineering for the effective selection of the necessary electrical and electrical measuring devices, the ability to operate them correctly and draw up technical specifications together with electrical engineers.

#### 2. Course learning outcomes

Upon completion of the course, students will be expected to

- know: electrical laws, methods of analysis of electrical, magnetic and electronic circuits and devices; electrical terminology and symbols; designs, operating principles, properties, applications and capabilities of basic electrical, electronic devices and measuring instruments;

- be able to: read electrical and electronic circuits, operate electrical devices correctly, measure electrical quantities; - to possess a skill to determine by calculation the parameters and characteristics of typical elements and circuits.

3. Competencies Apply electrical engineering laws to perform electrical network calculations.

4. Requirements and forms of midcourse evaluation and summative assessment: the level of knowledge of students is assessed using various means of diagnosing competencies: written quizzes on theory (twice a semester), written tests on solving problems, two calculation and graphic tasks per semester. Interim certification (test) is carried out in written and oral form.