

Code: 27, Electrical Science and Electronics

ECTScredits: 6	Number of hours per week: 2+0+1
Forms of assessments: Exam	Types of assessment: Exam - written
Department, providing instruction on the discipline: Department: <i>THEORETICAL AND MEASURING ELECTRICAL ENGINEERING</i> <i>FACULTY OF ELECTRICAL ENGINEERING</i>	

Lecturer: Assoc.Prof. M.Marinov

Department: *THEORETICAL AND MEASURING ELECTRICAL ENGINEERING*

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Annotation: The discipline aims education in the field of basic physical processes in electrical equipment, analysis of electrical and electronic systems, education on methods of comparison of electrical quantities, forming practical skills and their implementation by the help of special programs and models. Also to introduce the students to principles and characteristics of electromechanical and electronic facilities by estimation of different parts.

Main issues of the syllabus content:

- Electromagnetic field
- Electrical chains
- Magnetic circuits and Transformers
- Electric Machines
- Measurement in Electrotechniques
- Electronics

Content presentation: Lectures and laboratory exercises. The basic principles, laws and theorems of linear electric and magnetic AC/DC chains are discussed, semiconductor elements, electronic amplifiers. Measurement equipment and processes are of interest.