



AFFIRM

Rector:

(prof. eng. Ivan Kralov, DSc)

Date:

Educational–qualification degree:

Bachelor

Professional qualification:

Electronics engineer

Training duration:

4 years

Form of education:

full time

QUALIFICATION CHARACTERISTIC

of

Bachelor of Engineering

„ Electronics”

Professional field: **5.2. Electrical engineering, electronics and automation**



1. Educational goals

The specialty aims to provide education in the field of electronics, necessary for certified engineers of high quality, capable of immediate contribution in the field of schematic and technological design, modernization and operation of electronic devices. Successful graduates must: be well acquainted with information technology and its application in engineering practice, have knowledge and experience in production processes; to know the basics of economics, organization and management, standardization and patent business, as well as the methods and requirements for the development of technical documentation and environmental protection.

2. Knowledge and skills necessary for successful professional activity

The sustainable development of industrial production in the XXI century requires the education and development of specialists whose qualification characteristics suppose knowledge in the field of modern electronic systems / including embedded /; artificial intelligence systems and neural networks. The specialty "Electronics" practically is oriented to all areas of nowadays reality. Engineers with this specialty are realized as specialists in the design, operation and maintenance of modern electronic equipment used in industry, agriculture, medicine, home, etc.

3. General theoretical training

The training in the specialty "Electronics" is in line with the latest achievements in the field of electronics by combining theoretical knowledge and practical skills. The students are prepared for research, design and production activities in the field of electronic technologies and their applications in all fields of industry, communications, healthcare, etc. In parallel with the basic training, the students receive useful information on production management, organization and management of companies, marketing, technology transfer and international business, as well as training in English language.

4. Special training

Training in the specialized disciplines, the students enhance and profound their knowledge in specific profiling areas. The training ends with the development and defence of a diploma thesis with a specific topic. Thus, the students have the opportunity to apply the acquired knowledge and skills in developing a project in a given field of electronics.

5. Professional competencies and realization

Due to the wide profile training and their high professionalism, the graduates of the specialty "Electronics" find a very good reception in public and private companies in Bulgaria and abroad. The engineers graduating in "Electronics" are realized as specialists in all fields of development of electronic devices and systems, including embedded microprocessor systems with various applications - in industrial and automotive electronics, medical equipment, IoT, etc