

FRAMEWORK INTERNSHIP PROGRAM FOR THE FIELD OF STUDY

ELECTRICAL ENGINEERING part-time studies, general academic profile – semester 8

Internship completion means that the student has achieved the following learning outcomes based on knowledge, skills and relevant competences:

I. The degree of achievement of learning outcomes in the field of KNOWLEDGE:

1. He/she has practice-based knowledge in the field of electrical engineering, with emphasis on major subjects.
2. He/she knows and understands the basic laws of electrical engineering, the properties of elements of electrical circuits, has detailed knowledge in the field of electrical circuit theory (for steady and transient states), knows and understands the theory of long transmission line.
3. He/she has structured knowledge in the field of metrology and the properties and operation of modern measuring equipment.
4. He/she has a structured and theory-based knowledge of construction, operation and use of transformers, electrical machines and technical systems, he/she knows the processes taking place in their life cycle.
5. He/she knows the structure and principle of operation of electronic, optoelectronic and simple analogue and digital electronic and power electronic systems, understands the processes occurring in their life cycle.
6. He/she knows and understands typical engineering technologies in the field of study, is familiar with the latest development trends.
7. He/she has basic knowledge of the management and creation, conduct and development of business activities related to the given qualification.

II. The degree of achievement of learning outcomes in the field of SKILLS:

1. He/she is able to use knowledge in the curriculum for the field of electrical engineering, with emphasis on major subjects.
2. He/she knows how to plan and organize individual and team work, can estimate the time period needed to complete the commissioned task; is able to develop and implement a work schedule ensuring that the deadline is met.
3. He/she is able to critically analyze and evaluate the functioning of existing electrical systems and devices, using appropriate methods and tools.
4. He//she knows how to use properly selected IT tools to simulate, design and analyze electrical systems.
5. He/she knows how to plan and conduct an experiment, including testing and diagnosing simple electrical systems and devices.
6. He/she implements occupational health and safety rules.
7. He/she knows how to assess the usefulness of basic methods and tools used to solve practical engineering tasks, typical of the field of electrical engineering, and to select and apply appropriate methods and tools.
8. He/she knows how to operate electrical equipment correctly in accordance with general requirements and technical documentation.

III. The degree of achievement of learning outcomes in the field of SOCIAL COMPETENCES:

1. He/she is aware of the need to proactively initiate actions for public interest, understands various aspects and results of electrical engineer's activities, including the impact on the environment, and the associated responsibility for the decisions taken.
2. He/she is aware of the importance of his own work and the need to comply with the principles of professional ethics, is ready to comply with the principles of teamwork and take responsibility for jointly carried out tasks, as well as care for the achievements and traditions of the profession.
3. He/she knows how to think and act in an entrepreneurial way in the field of electrical engineering.