

## **Programme of study – ELECTROMECHANICS**

### **Information about the qualification and learning outcomes of the programme of study**

#### **A. PROFESSIONAL COMPETENCIES**

- Apply effectively knowledge of mathematics, physics and chemistry to the electrical engineering field;
- Work with fundamental concepts of computer science and IT;
- Apply properly knowledge of energy conversion, electromagnetic and mechanical phenomena to static and electromechanical converters, electric equipment and electric and mechanical actuators;
- Use techniques for measuring electrical and non-electrical quantities, and data acquisition systems in electromechanical systems;
- Automation of electrical and mechanical processes;
- Carry out running, maintenance, servicing and system integration operations;
- Use specific concepts regarding marine electrical equipment and systems with a view to choosing marine electrical equipment.

#### **B. TRANSVERSAL COMPETENCIES**

- Identify outcomes, available resources, completion conditions, working stages, time intervals, deadlines and entailing risks;
- Identify roles and responsibilities within a multidisciplinary team and apply communication and working techniques within the team;
- Use effectively multimedia sources, communication and computer-based training resources (Internet portals, specialized software apps, data bases, online courses, etc) both in Romanian and in an international language.