



**Learning outcomes for Specialist Graduate Professional Study Programme in Electrical Engineering**

- Ability to select the appropriate technical solutions for electric and electronic elements, devices, plants and systems.
- Ability to select elements and equipment in accordance with user request specifications and technical norms.
- Ability to manage elaboration of design concept and write documentation for implementation of devices, plants and systems.
- Ability to organize equipment design and testing, plant design and implementation according to structural projects and field testing.
- Ability to propose new procedures for modernisation of devices, plants and systems.

**Additional learning outcomes for specialisation in Automation and Computer Process Control:**

- Ability to evaluate and select equipment necessary for setting a system of control, regulation and monitoring of technical processes concerning energy conversion, fluid warehousing, material and people transportation and heat processes.
- Ability to select regulation algorithms in order to do analysis and synthesis to reach the requested regulation process indicators.
- Ability to set a control and regulation system based on analysis of simple processes.
- Ability to select a control and management software by using process controllers.

**Additional learning outcomes for specialisation in Electrical Power Engineering:**

- Ability to analyse physical instances in electric rotating machines, transformers, overhead transmission lines and switchgear.
- Ability to optimise solutions to mechanical, voltage and current stresses of power plant elements.
- Ability to design models of power plant elements in order to determine current and voltage conditions in both normal and short circuit plant operating circumstances.
- Ability to select rotating machines, transformers, transmission lines and devices in power plants.
- Ability to interconnect rotating machines, transformers, transmission lines and devices in power plants.





**Additional learning outcomes for specialisation in Communication and Computer Technology:**

- Ability to manage development of programs to be used in telecommunication objects, networks or systems.
- Ability to evaluate implementation of projects carried out to achieve specific functionalities of telecommunication objects, networks or systems.
- Ability to select technical requests for intervention on telecommunication objects, networks or systems in order to coordinate functionalities with norms and user request specifications.
- Ability to build embedded computer systems and the accompanying hardware and software equipment.
- Ability to build systems for supervision of computer controlled processes.



**TEL** +385 1 5595 307  
**FAX** +385 1 5595 360  
**MAIL** elo@tvz.hr

**WEB** www.tvz.hr  
**ADR** Konavoska 2  
10000 Zagreb, Hrvatska

**MB** 13 98 270  
**OIB** 088 1400 3451  
**IBAN** HR80 236 0000 1101 350 801