### Learning outcomes of the professional undergraduate study Telematics

1. Explain the basic mathematical, physical and technical principles of operation of electrotechnical, electronic and computer elements and circuits, measuring devices and electrical machines used in telematics systems.
2. Link mathematical methods, engineering principles and computer simulations from the signal and system theory with applications in telematics systems.
3. Conduct experiments and measurements in the laboratory and real telematics systems, and interpret the collected data and measurement results with the preparation of appropriate documentation.
4. Use computer principles and methods related to the architecture and organization of computers and computer networks.
5. Use computer principles and methods related to programming languages, databases, and operating systems.
6. Design and implement desktop, web and mobile computer applications and computer programs for microcomputers and microcontrollers, with or without a database.
7. Describe the development and implementation of communications systems, switching systems, and local and broadband networks.
8. Design and implement communications and computer networks, as well as network services.
9. Explain the basic methods of automatic system control and apply them to telematics systems.
10. Analyse and implement an information system in the field of telematics.
11. Design and develop solutions for components, circuits and software for application in signal processing and telecommunications, with the preparation of supporting project documentation.
12. Design and develop solutions for components, circuits and software for application in computer networks and information systems, with the preparation of supporting project documentation.
13. Design and develop solutions for components, circuits and software for application in regulation systems and production processes, with the preparation of supporting project documentation.
14. Apply methods of organizing business systems and marketing of products and services in the context of entrepreneurship in telematics.
15. Participate in teamwork and independently present professional content in written and spoken form in Croatian and English.