



REPUBLIKA E SHQIPËRISË

**UNIVERSITETI “ISMAIL QEMALI” VLORE
FAKULTETI I SHKENCAVE TEKNIKE DHE NATYRORE**

Bachelor in Computer Engineering

Mission

The “*Bachelor in Computer Engineering*” program is designed to provide students with in-depth intellectual formation and professional skills in the field of computer engineering. The program offers a broad range of knowledge regarding the design, development, and management of advanced computer systems, with a strong focus on the application of emerging technologies. It aims to contribute to the development of critical thinking, analytical skills, and problem-solving abilities, while also encouraging creativity and innovation in addressing the technological challenges of the future.

The primary goal of the “*Bachelor in Computer Engineering*” study program is to offer students a quality education in the English language, ensuring a deep understanding and high-level competence in applying advanced computer engineering concepts, tools, and techniques. The program integrates strategic, analytical, and practical elements, enabling students to gain comprehensive training that prepares them for complex technological challenges and gives them a clear advantage in the global job market.

Program Objectives

- The program aims to train experts and specialists skilled in both theoretical and especially practical aspects of computer engineering, including the design, development, and maintenance of advanced computer systems.
- It provides students with deep knowledge of algorithms, system architecture, computer networks, and cybersecurity, while integrating the latest technologies to address modern technological challenges.
- To demonstrate a strategic and analytical perspective on the integration of computer technologies in modern business and understand how they contribute to increased productivity and innovation.
- To develop a comprehensive understanding of software engineering and information systems principles, including development and project management methods to improve the efficiency of technological solutions.
- To analyze and apply practical skills in advanced technologies such as programming, artificial intelligence, data analysis, and system architecture to solve complex problems.
- To synthesize theoretical and practical knowledge in order to critically evaluate technological challenges and offer innovative solutions that are valuable to potential employers upon graduation.



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- To use advanced tools and techniques for software development and project management in business environments, analyzing the needs and challenges presented by the labor market.
- To educate students to ethically and reflectively apply their skills and knowledge in computer engineering, with commitment to professional ethics standards and sustainable practices.
- To promote the professional growth of students by involving them in research projects and product development, creating opportunities for collaboration with industry and other universities.
- To ensure student involvement in professional internships across various sectors, offering practical development opportunities and enhancing skills that will contribute to their future employment.
- To demonstrate the academic staff's commitment to upholding ethical standards in teaching and scientific research, while promoting a learning environment that encourages learning and innovation.

The “*Bachelor in Computer Engineering*” program is part of the broader portfolio of programs offered by the Department of Computer Science, aiming to strengthen the department by offering study programs aligned with labor market demands, shaped by the cultural, social, economic, and technological development of the country and the region.