

Faculty of Information Technology

**Bachelor's
Degree in
Software
Engineering**

BACHELOR IN COMPUTER ENGINEERING

GENERAL INFORMATION:

Level of Studies:	Bachelor
Name of the study program:	Computer Engineering
Duration of the study program:	3 year (6 semesters)
ECTS:	180ECTS
Study:	Full time
Diploma:	Bachelor in "Computer Engineering"
Language:	Albanian

OBJECTIVES OF THE PROGRAM

The Bachelor's program in Computer Engineering aims to provide a foundational basis for contemporary profiles of professionals and researchers in the field of computer systems, capable of tackling the challenges posed by the job market.

Throughout the three years of study, students will be equipped with theoretical and applied knowledge related to the field of information technology and particularly computer systems.

Upon completion of this study program, graduates will be able to analyze problems and provide solutions in computer terms using a variety of tools.

The primary objective of the Bachelor's program in Computer Engineering is for students to be employed in positions related to their field of study before the completion of the third year. Additionally, this study program aims to achieve the following objectives:

- **Fundamental and Advanced Knowledge:** Students will acquire foundational and advanced knowledge in the field of study. The knowledge gained represents consolidated experiences in the field and is adapted to the conditions of Albanian technology and economy. These skills pave the way for further expansion of knowledge during postgraduate studies for those wishing to continue.

- **Adaptability in the Job Market:** Students will be capable of adapting to the job market, securing positions with ambitions for career development. The program offers opportunities to aim for senior positions within private or public organizational structures where leadership, management, implementation, and decision-making are required.
- **Exposure to Industry Experiences:** Students will become familiar with experiences and practices within the information technology sector through internships or employment with companies that TBU collaborates with.
- **Competitiveness in Global Job Markets:** Graduates will be competitive for job positions internationally, should they wish to work outside the country.

These objectives ensure that graduates are well-prepared to meet the demands of the rapidly evolving field of computer engineering and contribute effectively to the workforce upon graduation.

STUDY PROGRAM:

1ST YEAR	FIRST SEMESTER		SECOND SEMESTER	
	COURSE	ECTS	COURSE	ECTS
	Mathematical analysis	6	Physics	6
	Programming techniques and languages	6	Probability	6
	Informatics	6	Introduction to Programming	6
	English 1	3	Programming Language 1	6
	Algebra and geometry	6	Electrical Engineering	6
			English 2	3
TOTAL ECTS			60	
2ND YEAR	FIRST SEMESTER		SECOND SEMESTER	
	COURSE	ECTS	COURSE	ECTS
	Computer Architecture	6	Computer Architecture	6
	Digital Design/Image Processing	6	Digital Design/Image Processing	6
	Signal Theory/Mobile and Wireless Networks	6	Signal Theory/Mobile and Wireless Networks	6
	Numerical Methods in Engineering	6	Numerical Methods in Engineering	6
	Introduction to Databases	6	Introduction to Databases	6
TOTAL ECTS			60	
3RD YEAR	FIRST SEMESTER		SECOND SEMESTER	
	COURSE	ECTS	COURSE	ECTS
	Telecommunication Networks	6	Software Engineering	6
Computer Architecture, Internet, and Protocols	6	Computer and Network Security	6	

	Operating Systems	6	Project Management/ Algorithm Analysis	6
	Signal Processing Methods/ Visual Programming Languages	6	Internship and Career Development	6
	Machine Learning	6	Thesis Topic	6
	TOTAL ECTS			60
TOTAL ETCS				180

CAREER OPPORTUNITIES

A graduate in Computer Engineering gains deep knowledge in programming, operating systems, computer architecture, computer networks, cybersecurity, and artificial intelligence.

Here are some different career possibilities:

- Hardware Engineer
- Computer Network Engineer
- Cybersecurity Engineer
- Robotics Engineer
- Website Developer
- Computer Systems Analyst
- Software Developer, etc.

Students will be skilled in designing and implementing security measures to protect computer systems, networks, and data from threats and cyber attacks. They will also design and develop integrated systems for applications such as consumer electronics, automotive systems, medical devices, and industrial automation. Moreover, they will work on designing, developing, and programming robotic systems for applications in manufacturing, healthcare, agriculture, and defense.

Opportunities for Practical Training and Employment at TBU

At TBU, students are offered employment opportunities during their years of study. These employment and practical training opportunities are made possible through the support provided by the BALFIN Group to TBU, as well as partnerships with various companies. TBU collaborates with over 150 companies, law offices, or financial institutions where students can undertake internships or find employment, including:

- Tirana Bank
- BALFIN IT
- Jumbo
- Neptun

- Balfin Real Estate
- Balfin Construction
- Fashion Group Albania
- ACREM
- Spar Albania
- Raiffeisen Bank
- NOA Financo, etc.

SUPPORT AND FACILITIES

Excellence scholarships, social scholarships, and early reservations. Students have the opportunity to benefit from reduced tuition fees through:

Excellence Scholarships Excellence scholarships are awarded based on the average GPA at the end of high school. The first 10 applicants for the scholarship, ranked according to reservation date, receive the scholarship according to the following scheme:

- GPA +9.5 offers a 100% scholarship
- GPA +9 offers a 75% scholarship
- GPA +8.5 offers a 50% scholarship

To secure the scholarship, a reservation must be made by paying a part of the administrative fee of 20,000 ALL.

Social Scholarships Social scholarships are assessed based on documentation submitted by the student candidate during the application process and through interviews with the scholarship evaluation committee. The deadline to apply for social scholarships is August 15. Required documentation includes:

- Family certificate
- Income verification for each family member
- Copy of the student's diploma and grade list

EARLY RESERVATIONS

Tirana Business University offers a reduction in tuition fees for students who reserve their place early.



CONTACT US

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