

Faculty of Information Technology

**Bachelor's
Degree in
Software
Engineering**

BACHELOR IN SOFTWARE ENGINEERING

GENERAL INFORMATION:

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

OBJECTIVES OF THE PROGRAM

The Bachelor's program in Software Engineering aims to establish a foundational base for contemporary profiles of professionals and young researchers in the field of software systems, capable of addressing challenges posed by the job market.

Over the three years of study, students will acquire basic theoretical and applied knowledge related to the field of information technology, with a particular focus on software systems.

Upon completion of this study program, graduates will be able to analyze problems and provide computer-based solutions through a variety of tools.

The primary objective of the Bachelor's program in Software Engineering is for students to secure employment in positions related to their studies before completing the third year. Additionally, this study program aims to achieve the following objectives:

- **Foundational and Advanced Knowledge:** Equip students with both fundamental and advanced knowledge in the field of study. The acquired knowledge represents consolidated experiences tailored to the conditions of Albanian technology and economy. These insights pave the way for further expansion of knowledge during postgraduate studies for those who wish to continue.

- **Adaptability to the Job Market:** Enable students to adapt to the job market, securing positions with career development ambitions. The studies provide opportunities to aim for high-level positions within private or public organizational structures, where leadership, management, implementation, and decision-making are required.
- **Exposure to Industry Practices:** Familiarize students with experiences and practices of information technology stakeholders through internships or employment in companies with which TBU has collaboration agreements.
- **Competitiveness in Global Job Market:** Prepare students to compete for employment opportunities internationally, if they choose to seek employment outside Albania.

These objectives ensure that graduates are well-prepared to meet the demands of the evolving software engineering field, both locally and globally, upon completing their studies at Tirana Business University.

STUDY PROGRAM

1 ST YEAR	FIRST SEMESTER		SECOND SEMESTER	
	COURSE	ECTS	COURSE	ECTS
	Linear Algebra	6	Introduction to Programming	6
	Mathematical Analysis 1	6	Probability	6
	Introduction to Computer Science	6	Physics	6
	English 1	3	Operating Systems	6
	Computer Architecture 1	6	Mathematical Analysis 2	6
			English 2	3
TOTAL ECTS			60	
2 ND YEAR	FIRST SEMESTER		SECOND SEMESTER	
	COURSE	ECTS	COURSE	ECTS
	Object-Oriented Programming	6	Data Structures	6
	Digital Logic/Image Processing	6	Database Management Systems	6
	Functional Programming	6	Web Programming	6
	Visual Programming Languages/Mobile Application Development	6	Discrete Mathematics/Algorithm Analysis	6
	Artificial Intelligence	6	Advanced Algorithms and Programming	6
TOTAL ECTS			60	
3 RD YEAR	FIRST SEMESTER		SECOND SEMESTER	

COURSE	ECTS	COURSE	ECTS
Computer Architecture 2	6	Machine Learning	6
Big Data and Data Warehouse	6	Computer and Network Security	6
Introduction to Software Engineering	6	Project Management/Software Architecture	6
Computer Graphics/System Design Embedded	6	Internship and Career Development	6
Introduction to Data Mining	6	Diploma Thesis	6
TOTAL ECTS			60
TOTAL ETCS			180

EMPLOYMENT OPPORTUNITIES

A student graduating with a degree in Software Engineering has a wide range of career opportunities available to them, particularly in technical roles. Some career possibilities include positions such as:

- Software Engineer/Developer
- Systems Analyst
- Web Developer
- System Analyst
- Database Administrator
- Software Development Manager
- Technical Consultant
- Quality Assurance Engineer, etc.

Students will be responsible for designing, developing, testing, and maintaining software applications and systems. They will also be responsible for designing the overall structure of software systems and ensuring they meet both technical and business requirements. Additionally, they will be trained to analyze current computer systems and procedures within an organization and to design solutions that help the organization operate more efficiently and effectively.

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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