

Bachelor of Science in Computer Science



Applicant Profile

We look for curious, imaginative, creative, and innovative students who possess:

- Basic computer knowledge
- Numerical aptitude and basic Math knowledge
- Ability for abstraction, analysis, synthesis, and logical reasoning
- Willingness to work in teams
- Reading comprehension in English
- Strong perception and attention skills



Professional skills

After 4 years in the program, you will be able to:

- Apply coherent and comprehensive tools for the automated processing of information in areas such as Software Engineering, Information Technologies, Information Systems, and related fields.
- Solve professional challenges at a global level, applying the fundamentals of the profession and innovation, considering social, economic, and environmental aspects framed within ethics and moral responsibility.
- Successfully lead and develop solutions related to your discipline, contributing valuable proposals to different segments of society.
- Acquire and improve technical and scientific skills and knowledge throughout your professional life, considering contemporary aspects, research, and entrepreneurship.



Employability

You will be able to work as an entrepreneur, manager, director, auditor, advisor, or consultant on projects involving:

- Analysis, design, and implementation of information, multimedia, and computer systems in general.
- Management and development of IT projects.
- Database design and administration.
- Design, administration, and operation of computer networks and systems for data transmission.
- Implementation of cutting-edge technological solutions that make use of cloud services, algorithms to infer big data patterns, optimization algorithms, and techniques aimed at ensuring information security.

Curriculum Structure

LEVEL 100 - I	SINGLE VARIABLE CALCULUS	PHYSICS: MECHANICS	PROBLEM SOLVING
	PROGRAMMING FUNDAMENTALS	ARTS, SPORTS AND LANGUAGES ELECTIVE	ENGLISH I
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LEVEL 100 - II	LINEAR ALGEBRA	VECTOR CALCULUS	COMPUTERS AND SOCIETY
	OBJECT ORIENTED PROGRAMMING	COMMUNICATION	ENGLISH II
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LEVEL 200 - I	ELECTRICAL FUNDAMENTALS AND DIGITAL SYSTEMS	DISCRETE MATHEMATICS	DATA STRUCTURES
	SOFTWARE DESIGN	DATABASE SYSTEMS	ENGLISH III
LEVEL 200 - II	COMPUTER ORGANIZATION	SYSTEMS PROGRAMMING	STATISTICS
	HUMAN COMPUTER INTERACTION	DATA NETWORKS	ENGLISH IV





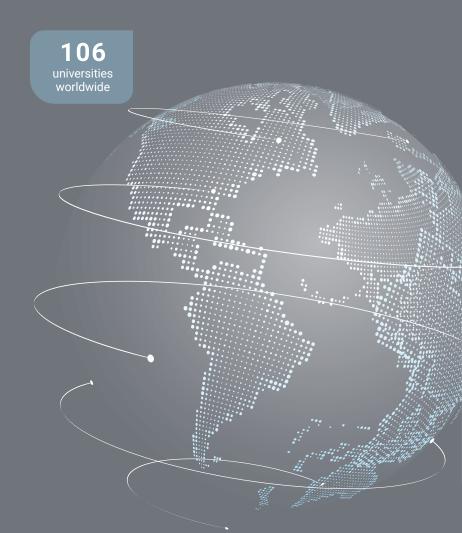
The field of computing is currently one of the most demanded.

Between 65% and 70% of students in the program obtain their first job before graduating.



ESPOL, through its Foreign Relations Office, promotes and develops partnerships with international cooperation agencies and academic/research institutions, creating mobility opportunities for the entire university community and contributing to the excellence that defines us.

More than 165 agreements allow students to participate in semester- or year-long exchanges, internships, research placements, conferences, competitions, and other academic activities abroad.



Accredited Program







Did you know?

This program trains professionals who will, throughout their careers, strengthen their abilities to research, propose, design, and implement solutions to the problems of our country and the region.

> www.fiec.espol.edu.ec www.admision.espol.edu.ec







