

# ESTUDIÁ #COMPUTER ENGINEERING

Name of the training proposal: Computer Engineering.

Title: **Computer Engineer.**

Level: Bachelor.

Duration: 5 years.

**Develop digital electronic systems for data processing with multiple applications.**

## Professional field of action

The use of computers and other devices is key to our daily lives and productive development. Integrated knowledge of how they work expands our possibilities to adapt them to specific needs and enhance them with new functions. Computer Engineering at UNRaf is an innovative proposal that combines knowledge of hardware and software especially oriented to the development of interconnected embedded systems that allow research, generation and application of new information technologies, communications and artificial intelligence.

UNRaf's Computer Engineers will be professionals trained to develop electronic systems that integrate software to digital devices for data processing with multiple applications in companies and public and private organisations, with the possibility of generating their own projects as entrepreneurs.

## Program

1° SEMESTER	University, Society and Knowledge	Contemporary Issues	Academic Reading and Writing Workshop	Statistics and Calculation Workshop	
2° SEMESTER	Introduction to Mathematical Analysis	Fundamentals of Computer Science	General Chemistry	Physics I	Algorithms and Data Structures
3° SEMESTER	Fundamentals of Computing	Mathematical Analysis I	Algebra and Analytic Geometry	Graphic Representation System	English I
4° SEMESTER	Mathematical Analysis II	Economics	English II	Physics II	Computer Engineering I
5° SEMESTER	Probability and Statistics	Physics III	Programming	Analogue Electronics	English III
6° SEMESTER	Digital Signal Processing	Computer Architecture	Digital Electronics	Materials and Devices	Computer Engineering II
7° SEMESTER	Embedded Systems	Operating Systems	Computer Networks	Software Engineering	Elective 1
8° SEMESTER	Data Communication	Machine Learning and Big Data	Computer Engineering III	English IV	Data Bases
9° SEMESTER	Supervised Professional Practice (annual)	Business Management	Legislation	Environmental Management	Fundamentals of Computer Security
10° SEMESTER	Research Methodology	Final Project	Computer Engineering IV	Elective II	

## CYCLE OF ELECTIVES I AND II

Industrial Communications Protocols  
Distributed and Real-Time Operating Systems  
Drivers and I/O Devices  
Advanced Embedded Systems  
Cloud Computing



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