

ESTUDIÁ

#AUTOMATION AND ROBOTICS

Name of the course: Complementation Cycle for a Bachelor's Degree in Automation and Robotics.

Degree: **Bachelor's Degree in Automation and Robotics.**

Level: Bachelor.

Duration: 2 years.

Evolve professionally towards Industry 4.0, the era of robots and automatic and intelligent systems that transform work and production around the world.

Automation and robotics are present in practically all areas of technology, not only in companies, since it allows the optimization of work in a wide field of applications such as the automation of smart cities, smart energy networks and automated buildings, among others. Some examples.

This situation raises the need to have highly specialized professionals to integrate software and hardware technologies applied to the automation and control of production, robotics and management processes, in a growing context of digital transformation of companies within the industry. 4.0.

Title scope

Evaluate and select the equipment that makes up process automation systems, both industrial and application, in the urban environment.

Carry out feasibility studies inherent to any design project for automation systems, control of industrial systems, public buildings (hospitals, schools, etc.) and applications in the urban area.

Manage, launch and maintain automation and control systems for industrial systems and applications in the urban environment to improve their quality and productivity.

Apply automation and control technologies to optimize urban production systems, improve the quality of the product or service, using specialized software and hardware tools, to provide innovative and efficient solutions.

Program

	Security and environment	Project management	Quality Management		
1° SEMESTER		Signal and Image Processing	Industrial electronics	Programming	
2° SEMESTER		Industrial Controllers	Industrial Communications	Smart Buildings	
3° SEMESTER		Introduction to computer vision	Instrumentation and process control	Security and environment	Robotics
4° SEMESTER		Project management	Industrial Computing	Quality Management	Professional Practice



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