

# Associate Degree Design Realization of Automatic Systems

## BTS CONCEPTION REALISATION DES SYSTÈMES AUTOMATIQUES

### Educational Program Objectives

During the two years of training, the student will gain knowledge in mechanics (design, mechanical design) and automation (programming method, structure and design of a control part).

He will learn how to work in teams and communicate with others, students, teachers, and actors involved in the training. His qualifications will enable him to design and build an automated production system.

During the 1st year of study, students have to do an internship of 6 weeks. This professional integration is designed to develop professional and human knowledge through the business and meet the technical need in situation.

In the second year, the student participates in the realization of an industrial project in partnership with a company.

### Study program

TABLE OF CONTENTS	TIMETABLE 1st year	TIMETABLE 2nd year
General knowledge and et Expression	3 hours	3 hours
Foreign Language: English	2 hours	2 hours
Mathematics	3 hours	3 hours
Physics-Chemistry and Chemical tests	4 hours	4 hours
Design of Automatic Systems	17 hours	14 hours
Management and project implementation	3 hours	6 hours
Individual support	2 hours	2 hours

### Skill requirements

The applicant must:

- have an interest in the design of mechanisms associated with electricity and automation
- be voluntary and have an open mind to deal with the new problems of study

The selection is done mainly with students preparing a 12th Grade in Science and Technology Industry of Sustainable Development (STI2D) but also from scientific department.

## Pursue post-secondary studies

The vast majority of students continue their studies with the aim of integrating a bachelor degree in the European system. The best students are enrolled in engineering schools, either directly or after a year of preparation. Others prepare a general or professional bachelor.

## Professional outlets

The Certificate of Advanced Technician in Design Realization of Automatic Systems carries out the activities in all sectors of the manufacturing industry.

Thus, the future graduates may be required to fulfill the following functions:

- Analysis: based on automation process and taking into account technical, economic and human resources.
- Report: set the global construction project or a subset of the operating part
- Draft the achievement of major strategic projects
- Performance, the project implementation
- Setup, follow and participate in the implementation of the various equipment and their final assembly