

University Bachelor of Technology (B.U.T.)

Civil Engineering- Sustainable Construction (GCCD)

The **B.U.T. GCCD** trains future middle management professionals in the fields of **Construction and Civil engineering/Public Works (BTP)**, both in **Building Design** and **Construction**. The core skills studied target the whole construction process: from building foundations to installation of technical components, from structural engineering to questions of thermal, acoustic and visual comfort, from choice of materials to the definition of construction techniques, from groundwork to road layouts and works of art.

The course takes the technical and methodological changes linked to energy transformation, environmental requirements, the digital revolution and health and safety issues into account. Notions such as **sustainable construction** and the generalisation of the **BIM approach** (Building Information Modelling) are thus omnipresent in the course content.

Study tracks

- The **Building study track** aims to train technicians who will work in the construction phase of buildings.

Career prospects:

Construction site manager, new building site manager, clerk of works all trades, business manager all trades, property developer programme manager, SPC coordinator, and health and safety officers

- The **Civil engineering study track** aims to train technicians who will work in the construction phase of a Public Works project.

Career prospects:

Site manager (highways-diverse networks), site manager roads, pipe networks site manager, public works clerk of works, highways manager, public works technician, railway operations and maintenance technician, local authorities' technician, and QA manager materials

- The **Building restoration and environmental performance improvement study track** aims to train technicians who will work in building restoration projects targeting improvement of environmental performance.

Career prospects :

HVAC account managers (Heating-Ventilation-Air-conditioning), energy performance assessor, fluids technician, consultant and auditor for energy savings, site manager technical equipment, design office assistant-thermal studies, environmental quality technician for buildings

- The **Design Office study track** aims to train technicians who will work in the design phase of a building or public Works/Civil engineering projects.

Career prospects :

BIM technician, designer/drafter, structural designer, contractor's assistant, assistant design office engineer, design office fluids and thermal studies technician VRD-QS and draughtsman, lab trials technician, and quality management technician

Skills

The training course develops 5 professional skills:

- **Developing technical solutions** for part or the totality of a **Construction project**.
- **Developing technical solutions** for part or the totality of a **Civil engineering project**.
- **Structural sizing** for buildings and equipment.
- **Managing** a construction site.
- **Carrying out the technical supervision of a construction** throughout its lifecycle.

Entry requirements

The B.U.T. GCCD is open to high school graduates from **general** and more especially from **technological (STI2D) backgrounds** without ruling out students from other options or students wishing to change degree programme.

Admission is based upon examination of academic records. When considering applications, some departments might require an interview.

It can also be prepared within the Lifelong education scheme or in **apprenticeship** (apprenticeship training or work-based learning). The diploma can also be delivered on Accreditation of Prior Experiential Learning (APEL).

