“Home automation and communicating buildings” option

Duration of studies: 2 years (possibility of apprenticeship in the 1st and 2nd year)

1 class per year (maximum enrolment: 24 students/year)

The aim of this course is to train technicians to be able to design, to operate, to optimize and to supervise systems and building technical equipment maintenance.

Students will learn to implement automated systems that assure comfort, safety and energy management in buildings and housing: building management system, HVAC: heating, ventilation, air conditioning, lighting, access control, alarm systems, home automation and fire protection systems.

The option “Home automation and communicating buildings” will give students more scope for developing automation in homes and communication networks in buildings as well as for improving energy management (smart grids, smart cities…).

The projects studied come from real projects, such as individual homes, blocks of flats, hospitals or office buildings.

Skills:

- Analysis of client requirements (public contracting authority, individuals…)
- Analysis of the functioning of a system
- Designing technical solutions
- Drawing plans and diagrams (computer-aided design and 3D modeling with the software Autocad and Revit for example)
- Programming (Program a KNX installation with ETS 5)
- Regulations
- System commissioning
- Project management
- Team leading
The training program allows students to acquire technical, commercial, legal and managerial knowledge in order to study, cost, make and operate efficient technical solutions that are environmentally friendly.

Possible jobs: technician in a design office, commission technician, business manager.

During the training course: an 8-week internship in a company.