



UNIVERSITÉ
DE LORRAINE

IUT Saint-Dié

Bachelor's Degree in Technology

B.U.T. ^{GEII} A2I

Electrical Engineering and Industrial
Data Processing



PROGRAMME A2I
**INDUSTRIAL AUTOMATION
AND DATA PROCESSING**

DEGREE COURSE

designed to train senior technicians proficient in advanced automation and implementation of smart systems: automation, measurement, data processing, robotics, networks, connected objects, electronic systems, and management and conversion of electrical energy.

A MULTIDISCIPLINARY COURSE

The course develops skills in modern techniques in the fields of automation, electronics, energies, data processing and networks, with a view to professional integration or continuation of studies.

A PROFESSIONALISING COURSE

600 hours of projects over 3 years, with two professional placements lasting a total of between 22 and 26 weeks in the 2nd and 3rd Year in order to put learning outcomes into practice.

The projects, placements and qualifications proposed to GEII students ensure rapid professional integration and meet industry professionals' requirements in terms of skills.

CAREER OPPORTUNITIES

GEII graduates are employees with the technical industrial skills enabling them to work in innovative activity sectors (automotive, eHealth, renewable energies, Internet of Things, aeronautics, transport, IT service companies, agrifood, medicine, etc.).

INITIAL TRAINING OR SANDWICH COURSE

in 2nd and/or 3rd Year



2,600 hours
of training

50%
practical work and /
or learning situations



30%
of teaching delivered
by professionals

6
months of placements



*The Saint-Dié IUT is a good example of the
implementation of practical courses on industry 4.0.*



Jean-François COUNILH
R&D Director at NUMALLIANCE
Saint-Michel-sur-Meurthe



An Industry 4.0 platform

The IUT is equipped with a 200-m²

“Industry 4.0” platform enabling implementation of Industry of the Future concepts.

SKILLS

DESIGNING

the GEII (Electrical Engineering) part of a system

CHECKING

the GEII (Electrical Engineering) part of a system

MAINTAININ

a system in operational condition

INTEGRATIN

a command and control system in an industrial process

What's

SAÉ

Learning and evaluation situations

Over the course of the various training semesters, students will take part in several LES.

These are professional roleplay scenarios that help give meaning to what they have learnt, and enable them to acquire or improve their skills and evaluate them.

COURSE

Second-Year

Automation & Industrial Data Processing (A2I)

Through its coloration, the programme focuses on automation and robotics, essential fields in the industrial production sector. In the wake of the Industry of the Future's digital revolution, it aims to provide students with the skills required to install and programme automated systems (automatons, robots and vision systems) that ensure the operation and control of industrial processes.

Students will be led to discover what the industry of the future can provide as regards new ways of organising means of production, by putting digital technology (the Internet of Things [IoT], digital twins, artificial intelligence, the Cloud, etc.) at the heart of means of manufacture.

Thanks to the development of new industrial computer networks, such communicating tools provide graduates with solutions to setup of control systems (supervision and Human-Machine Interface) that enable help with plant operation and monitoring, product traceability and tracking energy consumption.



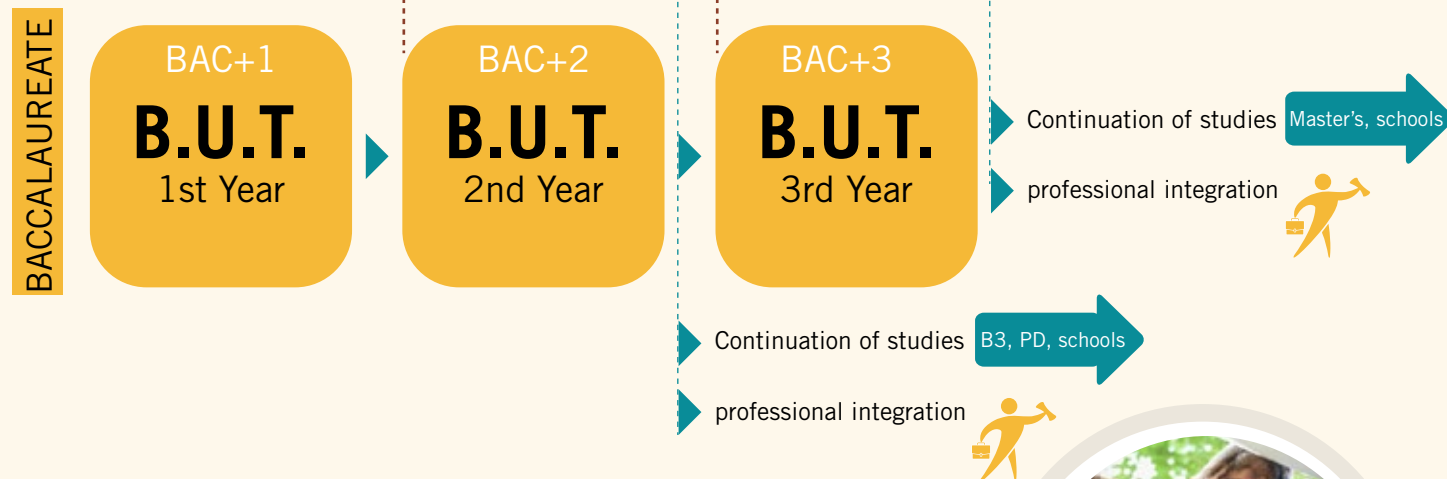
LEADING TO A DEGREE 120 ECTS

Obtainment of the NEW-FORMAT **D.U.T.**

LEADING TO A DEGREE 180 ECTS

Obtainment of the **B.U.T.**
BACHELOR'S DEGREE

PROGRAMME



IUT WITHOUT BORDERS

Université de Lorraine and Saint-Dié UIT in particular are wide open to the world, whether in the context of **bilateral agreements, European (Erasmus+) and international programmes or individual mobilities.**

The UIT welcomes a great many international students and provides assistance to students interested in study periods or placements abroad (Great Britain, Spain, Quebec, United States, Latvia, etc.).

STUDENT LIFE

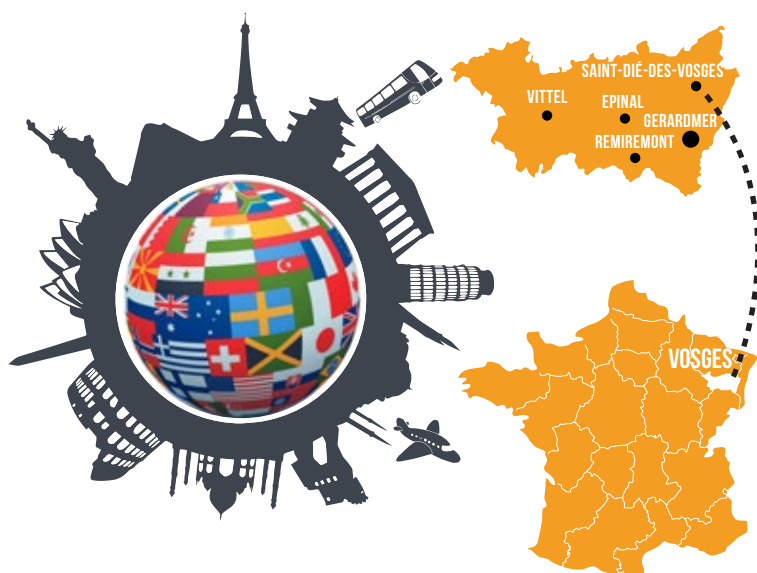
at Saint-Dié-des-Vosges

Association of Students of the Déodation University Hub - AEPUD

A team of students is elected each year, tasked with livening up student life in Saint-Dié-des-Vosges:

sponsorships, parties, network games, sports activities, cultural outings, films, exchanges with students at INSIC (Higher Institute of Engineering and Design) and IFSI (Nursing Training Institute), and more...

A multitude of activities is also organised in partnership with the UIT's University Library!

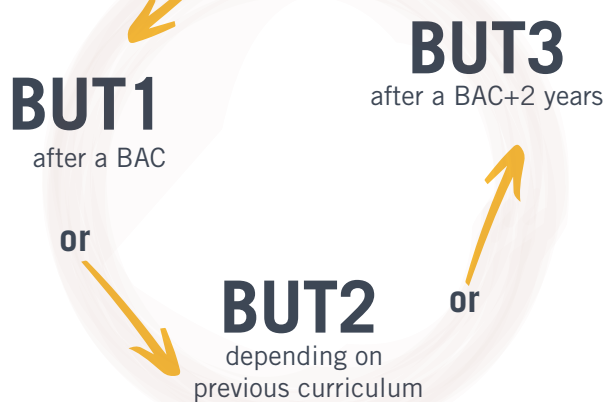




CANDIDACY

Candidates are selected following study of submissions

(school curriculum, candidate's motivation and project, etc **into:**



**OPEN TO ALL
TYPES OF
BACCALAUREATE**
general, technological and professional

www.iutsd.univ-lorraine.fr

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iutsd-scolaire-contact@univ-lorraine.fr
03 72 74 95 56



IUT **of Saint-Dié** UNIVERSITY INSTITUTE OF TECHNOLOGY

It's located on the banks of the Meurthe, between Nancy and Colmar. It's a modern, human-sized facility that combines rigour with conviviality. **The IUT is a component of Université de Lorraine and is part of the Collégium Technologie that includes all Lorraine's IUTs.**

It offers a wide range of technological university courses delivered by **teachers, teacher-researchers and professionals** and prioritising **small-group classes with continuous monitoring**, combined with a high proportion of practical work on open-access high-performance equipment.



Saint-Dié IUT

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