



UNIVERSITÉ  
DE LORRAINE

IUT Saint-Dié

Bachelor's Degree in Technology

# B.U.T. INFO

Information Technology



## PROGRAMME

CREATION OF APPLICATIONS: DESIGN,  
DEVELOPMENT, VALIDATION



## DEGREE COURSE

designed to train senior technicians able to meet a company's needs with regard to proficiency in the use of modern IT tools and openness to cutting-edge technologies. Graduates will above all be able to analyse a problem, take over its programming, choose IT equipment, select and design software, etc.

### A MULTIDISCIPLINARY COURSE

The course develops skills in various IT fields; including databases, object-oriented design and programming, programming on the web, software engineering, operating systems, networks, digital imaging and 3D modelling, with a view to direct professional integration or continuation of studies.

### A PROFESSIONALISING COURSE

600 hours of projects over its 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.

### CAREER OPPORTUNITIES

Graduates will hold positions connected with development of applications and special tools, equipment fleet management, and management of operating systems, networks, databases and application software.

## 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



*After 3 years of training at Saint-Dié UIT, I'd  
developed all the skills required to fulfil my potential  
as IT Project Manager*



IT Project Manager at QS  
in Saint-Dié-des-Vosges.  
Former student – class of 2016

**6**  
months of placements





# Fully equipped computer rooms

for creating Artificial Intelligence and 3D and 2D imaging on high-performance IT and multimedia equipment.

## SKILLS

<b>DEVELOPING AN APPLICATION</b>	Developing (i.e. designing, coding, testing and integrating) an IT solution for a customer.
<b>OPTIMISING IT APPLICATIONS</b>	Coming up with optimised IT applications meeting specific criteria: runtime, resource consumption and security.
<b>ADMINISTRATING COMPLEX COMMUNICATING IT SYSTEMS</b>	Installing, configuring and providing infrastructures, services and networks and maintaining them in operating condition, and optimising an organisation's IT system.
<b>MANAGING INFORMATION DATA</b>	Designing, managing, administrating and exploiting a company's data and making all information available to ensure its successful management.
<b>LEADING A PROJECT</b>	Meeting users' needs in terms of the customer's value chain, organising and heading an IT project with classical and agile methods alike.
<b>FITTING INTO AN IT TEAM</b>	Acquiring, developing and make good use of the skills required to work effectively in an IT team.

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.

## PROGRAMME

Second-Year

### Creating Applications: Design, Development, Validation

This programme focuses on **software lifecycles**: from the customer's expression of their needs to design, programming, validation and maintenance of the application, in contexts that may be specialised depending on activity field (management, finance, healthcare, video games, etc.) or specific development platforms (web, mobile, desktop, Internet of Things (IoT), etc.).

Through **local adaptation of graphical web and mobile development**, Saint-Dié IUT specialises in the field of applications and websites (back end, the core of a developer's role) on fixed, mobile and embedded media.

We take an advanced look at graphical aspects, as websites and applications:

- require ever more sophisticated human-machine interfaces (Front End)
- integrate 2D and 3D animated images, and virtual or augmented reality
- need computer vision or relate to videogames

Our students will be able to make full use of development tools and techniques in order to integrate these



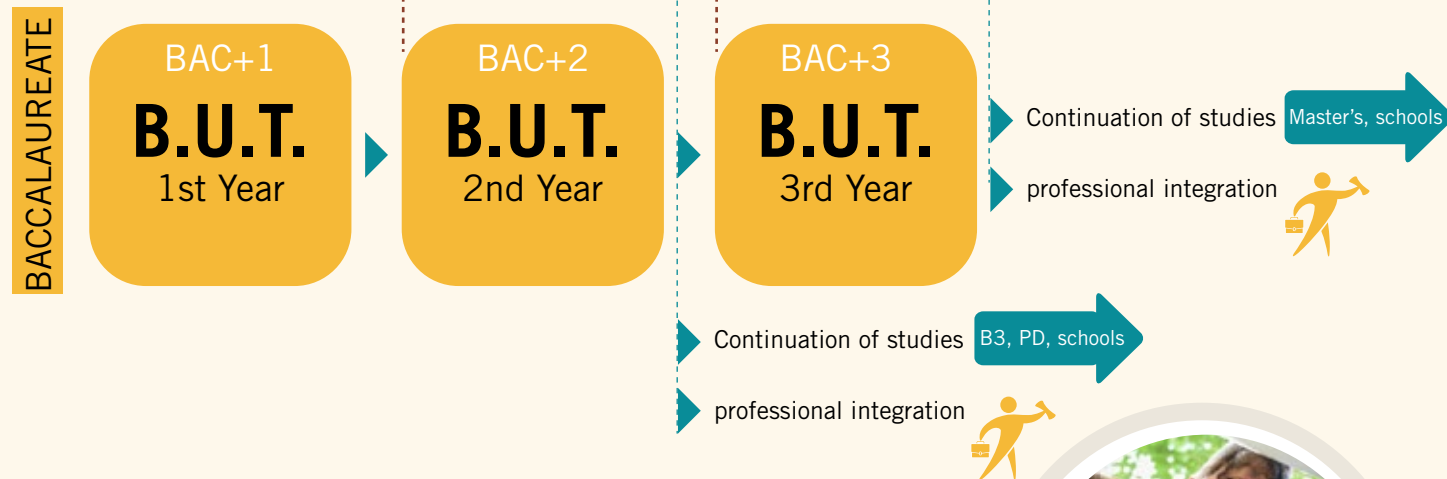
LEADING TO A DEGREE 120 ECTS

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

LEADING TO A DEGREE 180 ECTS

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

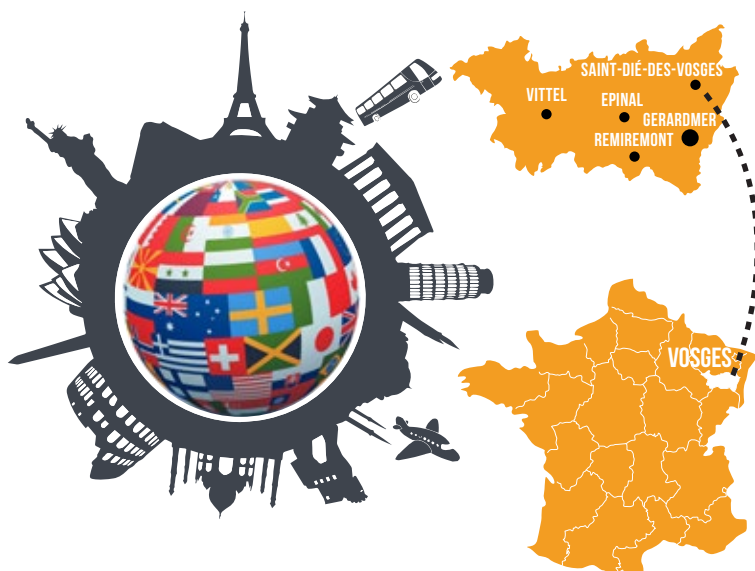
## PROGRAMME



## 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!



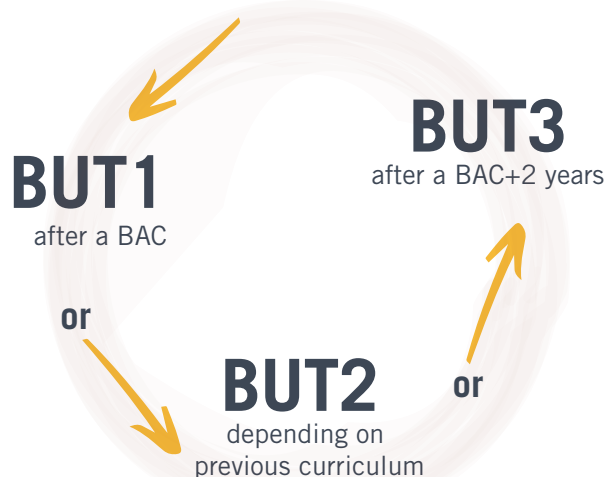




# CANDIDACY

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](http://www.iutsd.univ-lorraine.fr)

For resumption of studies or VAE  
[iutsd-scolarité-contact@univ-lorraine.fr](mailto:iutsd-scolarité-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.



**IUT de Saint-Dié**

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