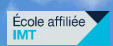


TELECOM Nancy

Ingénieurs du numérique • Inspiring your digital future



**GRADUATE SCHOOL OF ENGINEERING IN
COMPUTER AND DIGITAL SCIENCE**

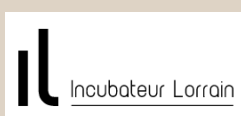
AN EXCEPTIONAL ECOSYSTEM



École affiliée
IMT

IMT
Grand
Est

Inria
INVENTEURS DU MONDE NUMÉRIQUE



- Lorraine INP 1st engineering college in France (12 schools)
- Université de Lorraine : 62.000 students
- **Recognized networks**
 - Institut Mines Télécom
 - Groupe INP
- World-renowned **research laboratories**
 - Inria Grand Est, CNRS, LORIA, CRAN, Institut Elie Cartan
- **Innovative structures**
 - PEEL, Incubateur Lorrain, ...

TELECOM NANCY IN FIGURES



- Public school founded in **1990** within the Université de Lorraine
- A **3** year training programme for general engineers in IT and digital sciences and technologies
- **34** teachers, **60** lecturers coming from industry, **17** administrative and technical staff

- **450** students trained by year
- Already more than **2500** graduated engineers!

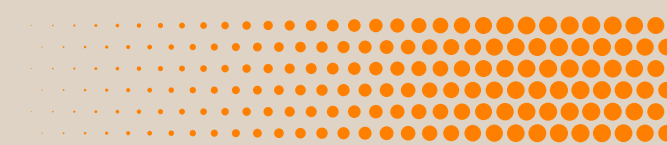


A BALANCED TRAINING

Our diplomas are structured with **research**,
fundamental sciences, advanced
technologies, and a strong connection to
societal and industrial challenges.



Our students are supported to be
creative, self-aware and to develop
exceptional **human** and **managerial**
qualities.



OUR FIELDS OF EXCELLENCE

Cybersecurity

Digital Health, Imaging

Data Science

Artificial Intelligence

Cloud Computing

Software Engineering

Industry of the Future

Information Systems



LEARNING THROUGH PROJECTS



CYBER HUMANUM EST, a simulation cyberwar exercise, organized in collaboration with cyberdefense forces of the French Army Ministry



Digital fresco, team work on environmental awareness and to ecological digital issues

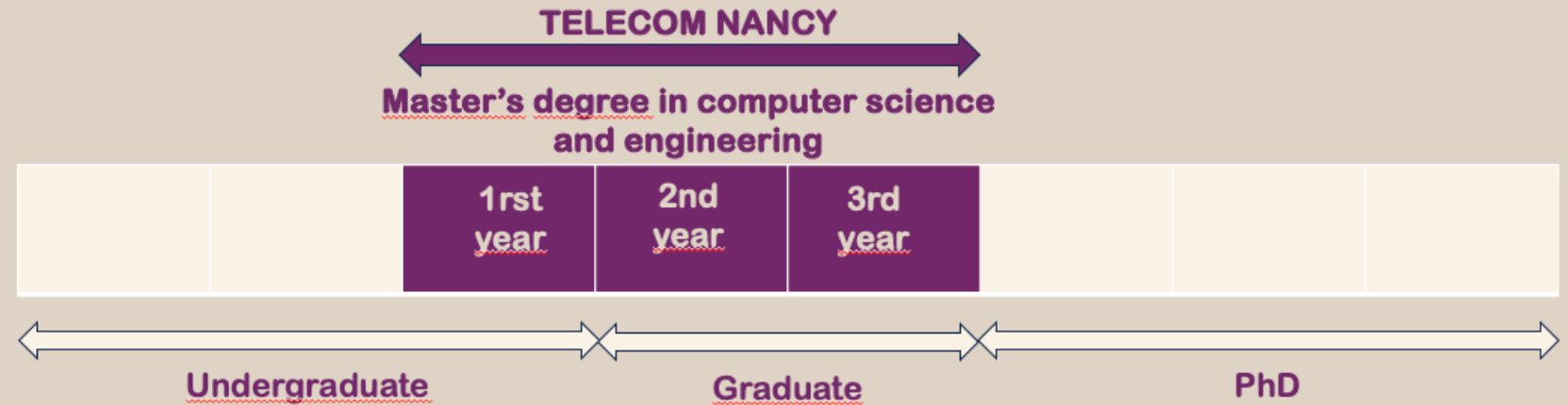
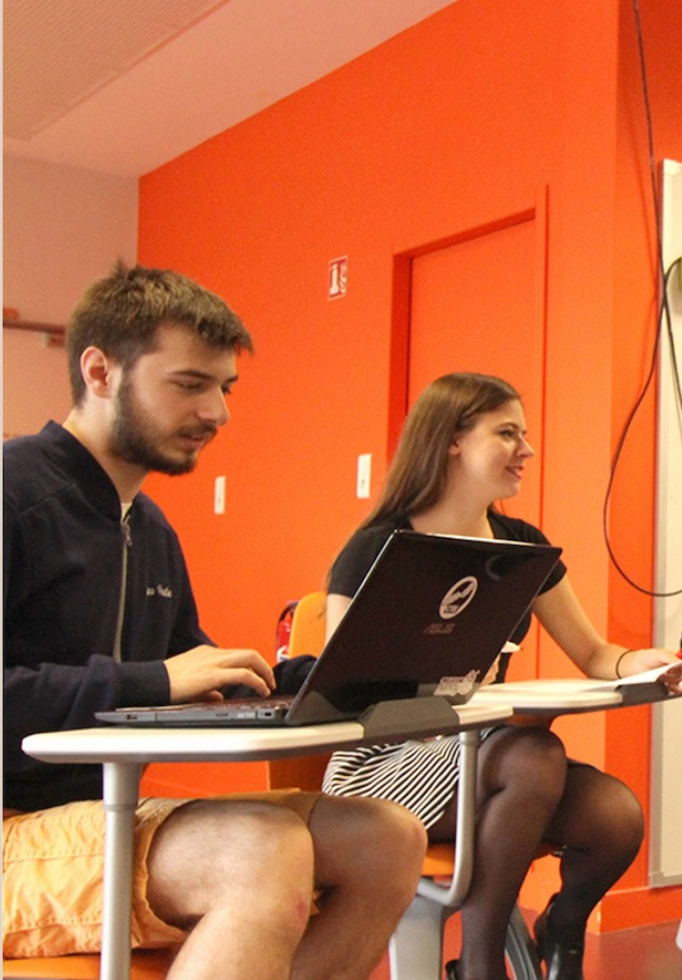


Proximus Cup, a « capture the flag » challenge in cybersecurity

HACKATHON Big Data, an innovation week during which students collaborate on solving different subjects



OUR FULL DEGREE PROGRAM



1st year core program (after 2 years of intensive science studies)
2nd and 3rd year graduate program - including
5 Majors

- Build according to the principles of the ACM/IEEE Computer Science Curriculum



5 MAJORS (2nd and 3rd year)

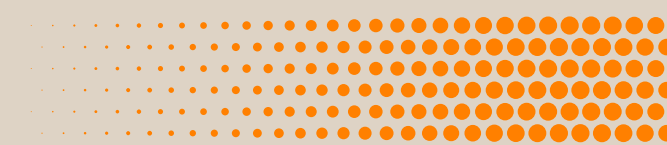
**Artificial Intelligence and
Big Data**
(English taught)

**Internet, Systems
and Security**
(English taught)

**Systems
And Embedded Software**
(French only)

Software Engineering
(French only)

**Information Systems for
the Intelligent Enterprise**
(English taught)



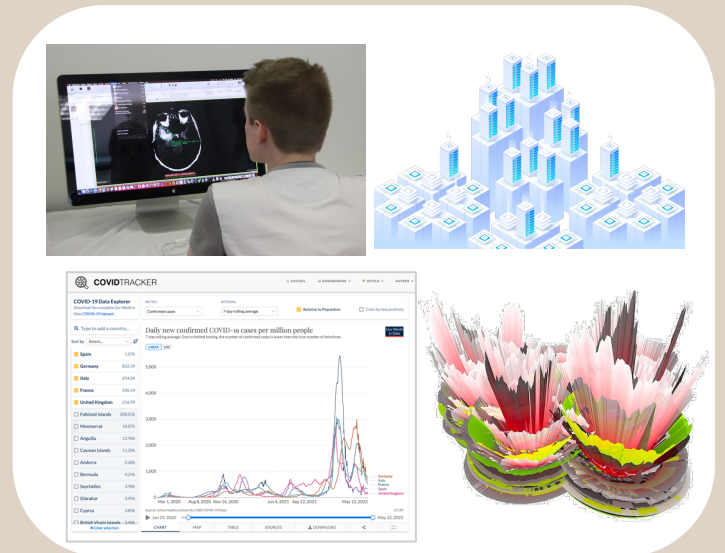
(English taught)

ARTIFICIAL INTELLIGENCE AND BIG DATA

- Understand specific problems related to a profession
- Guide development and implementation of analysis process using complex and voluminous data.

Several subjects over 2 semesters :

- Data bases NoSQL
- Big data management
- Artificial Intelligence, machine learning
- Data mining and KDD
- Cloud Computing
- Biomedical data, Smart cities data, Geosciences data
- ...



INTERNET SYSTEMS AND SECURITY (English taught)

- Gain high adaptability skills
- Secure and ensure a high performance exchange of data.

Several subjects over 2 semesters :

- Cryptography and Data Protection
- Malwares and Reverse engineering of code
- Supervision and Resilience of Connected Systems
- Computer Forensic and Incidents Response
- Big Data and Automation for Cybersecurity
- Attacks Analysis, Ethical Hacking and Pentests
- ...



SYSTEMS AND EMBEDDED SOFTWARES

- In-depth knowledge on digital equipment, modelling, systems, softwares and networks
- Interact in pluridisciplinary teams and supervise development of a product in its whole

Several subjects over 2 semesters :

- Security of an embedded system
- Real-time Embedded Software
- Smart and Secured Communicating Systems
- Advanced Machines Architecture
- Control and Design of Digital Systems (VHDL, FPGA, CN)
- Advanced Technologies for Embedded Technology
- ...

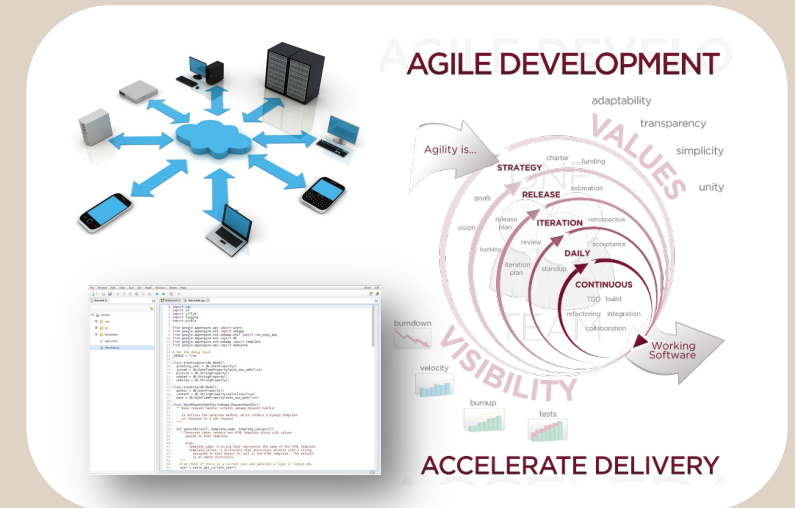


SOFTWARE ENGINEERING

➤ Implementation of engineering techniques to apprehend customer needs, transform them into programs, and deploy them in their operating environment.

Several subjects over 2 semesters :

- Formal Language Theory
- Complexity, Formal Methods (proof)
- Distributed Systems and Applications
- Web Programming
- Computer Graphics and Software Performance
- IT Systems: Safety, Modelling and Formal Conception
- ...

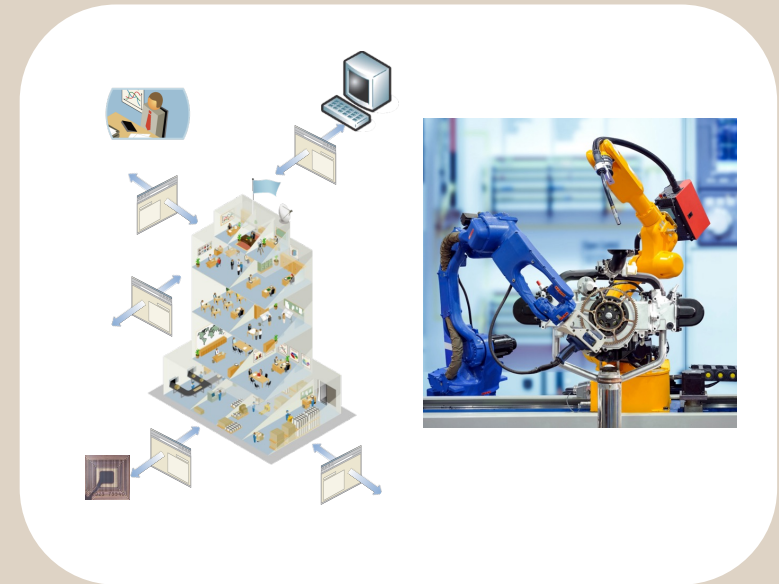


INFORMATION SYSTEMS FOR THE INTELLIGENT ENTERPRISE (English taught)

- Analyse, design and develop information systems for enterprises
- Provide overviews of different levels of granularity of business activities

Several subjects over 2 semesters :

- Modelling & Business processes integration
- Interoperability of Enterprise Applications
- Business Intelligence
- Enterprise 4.0 / Industry 4.0
- Distributed Systems and Applications
- AI for Industry and Digital Twins
- ...





OUR PROGRAM FOR EXCHANGE STUDENTS

ENGLISH PROGRAM FOR EXCHANGE STUDENTS

2nd year program - Spring semester (january to july) - RESEARCH ORIENTED

COMMON CORE (18 ECTS)

English
French **4 ECTS**

Artificial Intelligence
project **1 ECTS**

IT Development
internship **10 ECTS**

RESEARCH
DISCOVERY PROJECT **3 ECTS**

10 weeks within a
company or in
another professional
environment

First **concrete contact
with research**, carried
out in our University's
laboratories



1 MAJOR OF YOUR CHOICE (12 ECTS)

Artificial Intelligence
and Big Data

Internet, Systems
and Security

Information Systems
for the Intelligent
Enterprise

2nd year modules

ENGLISH PROGRAM FOR EXCHANGE STUDENTS

3rd year program – Autumn semester (september to february) - INDUSTRY ORIENTED

COMMON CORE (15 ECTS)

English
French **4 ECTS**

Seminar **1 ECTS**

Enterprise serious
games **2 ECTS**

**INDUSTRIAL
PROJECT** **8 ECTS**

The objective of the industrial project is to **shape students' awareness** to the concrete problems of companies



1 MAJOR OF YOUR CHOICE (15 ECTS)

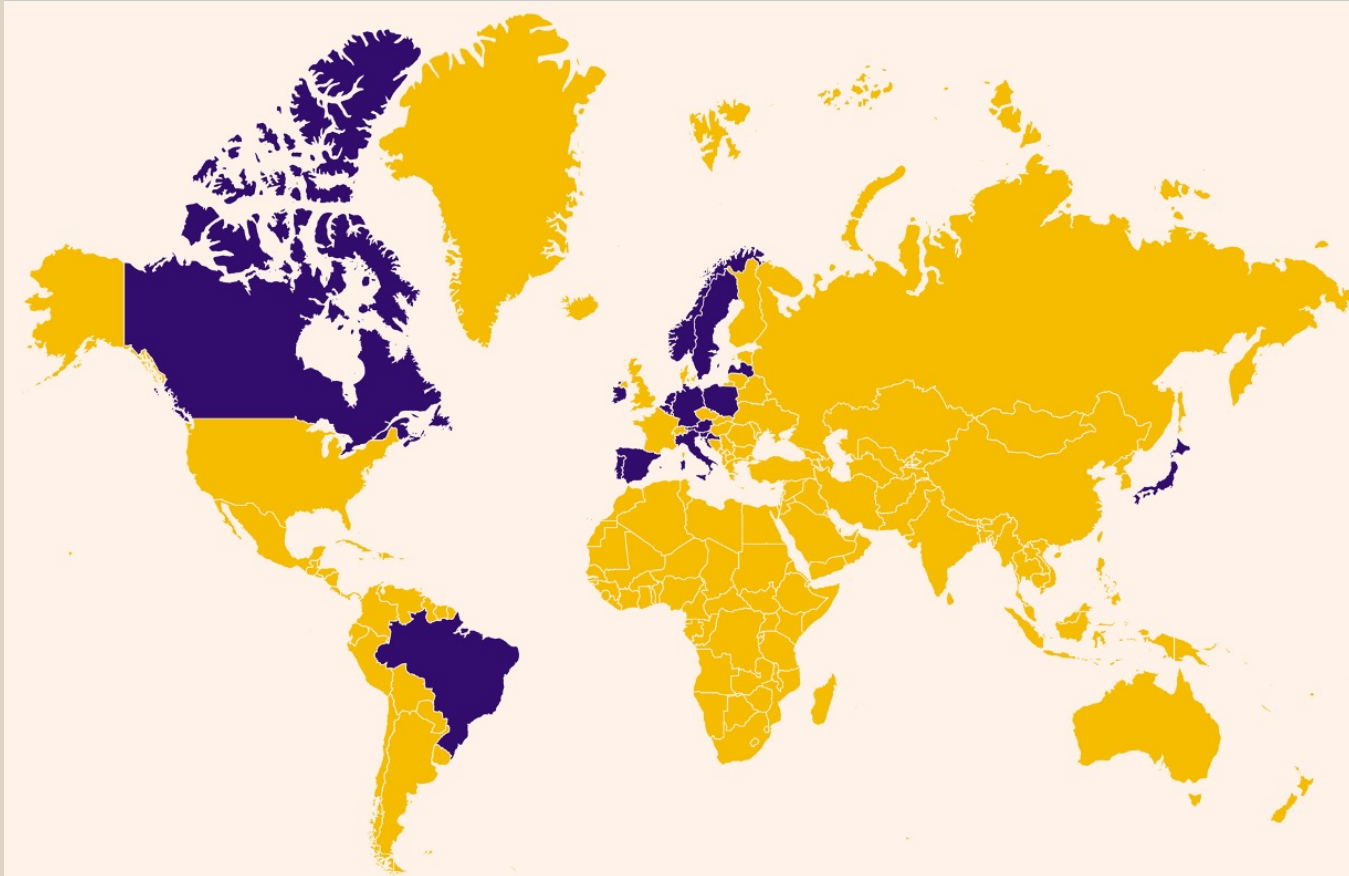
Artificial Intelligence
and Big Data

Internet, Systems
and Security

Information Systems
for the Intelligent
Enterprise

3rd year modules

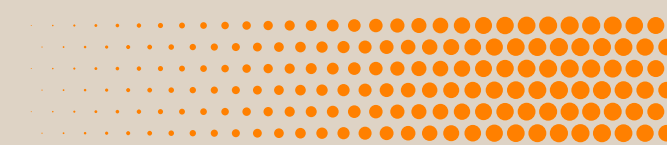
OUR INTERNATIONAL PARTNERSHIPS



In Europe :



Outside Europe :



OUR ENVIRONMENT



A campus of
6 000 M²



Rooms dedicated
for student life



+40 clubs and
associations for
extracurricular
activities



Cafeteria, wifi,
computer rooms
with free access



School open from
7:30 am to 11 pm
on weekdays



Privileged environment:

- Independent campus close to the city center
- Small groups for classes (between 15 & 30 students)

Ducky, TELECOM
Nancy's mascot





5 VALUES



INNOVATION



EXPERTISE



ETHICS

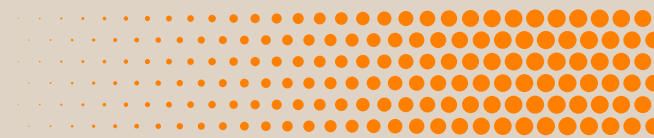


CONVIVIALITY



OPENESS

FAMILY SPIRIT



NANCY, ONE OF THE BEST STUDENT CITIES



1 in 5 resident is a student



13 university libraries



Nancy :

- 1H30 from Paris (High speed train)
- 1h20 from Luxembourg
- 1h30 from Germany



8500 foreign student each year



A gateway to Europe : close to Germany, Luxembourg, Belgium, Switzerland

BUDGET TO LIVE IN NANCY

An affordable city

« CROUS » HOUSING Nearby TN student residences

Single room from 170 €/ month

It is possible to have housing
subsidy up to half the rent

CATERING

« Resto U »

Price for a full meal:
3.30€.

(1€ for scholarship holders)



STUDENT CARD ADVANTAGES (Trains in France)

12 - 27 years old → 49 €
(valid for 1 year) = up to
75% discount on train
tickets

STUDENT ADVANTAGE CARD (Bus)

Unlimited subscriptions
Students under 25 years
old : 20€ a month
It is possible to go in all the
metropolis
of Nancy by bus.



With your student card, you will benefit from multiple advantages:

Specific discount on transportations, cultural activities (cinemas,
opera, theatre...)

-10% on your shopping kart in "Match" (supermarket)

Many free cultural places for students: Musée des Beaux-Arts, Villa
Majorelle, Museums, Aquarium...

NANCY, ONE OF THE BEST STUDENT CITIES



Place Stanislas



A lively city center



Variety of bars



Parc de la Pépinière



USEFUL LINKS

<https://www.nancy-tourisme.fr/>

<https://destination-nancy.com/>

<https://www.nancy.fr/>

<https://nancy.curieux.net/agenda/>

<https://www.lorrainemag.com/>

<https://www.ticketmaster.fr/fr/nancy>



TELECOM
nancy

Your IRO's contact at TN :
Angélique Dubuisson
Contact-international@telecomnancy.eu
+33 (0)3 72 74 59 64