



POLYTECH[®]
ORLÉANS

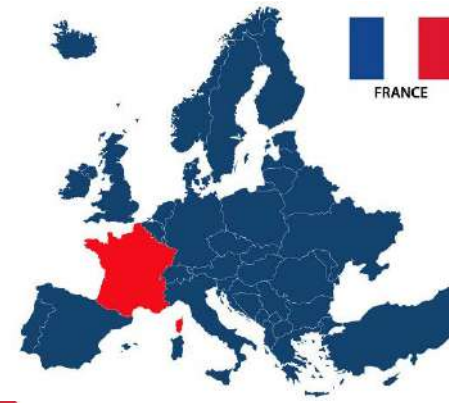
École d'Ingénieurs de l'Université d'Orléans



POLYTECH ORLÉANS

THE ENGINEERING SCHOOL OF THE UNIVERSITY OF ORLÉANS, FRANCE





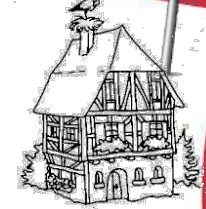
MONT ST MICHEL

266 km (165 miles)



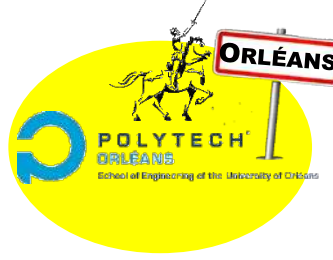
PARIS

120 km (74 miles)



STRASBOURG

600 km (372 miles)



ORLÉANS

BORDEAUX

461 km (286 miles)



MARSEILLE

758 km (471 miles)

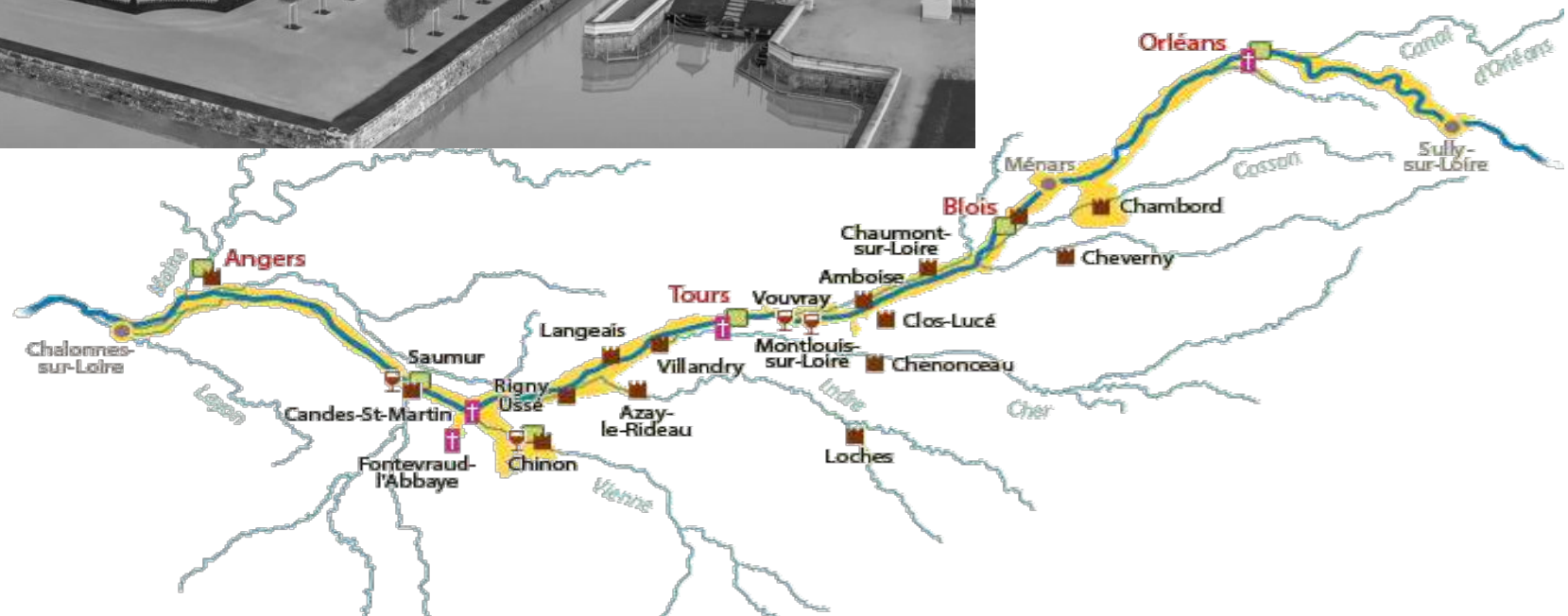


**Central location
1 hour south of Paris
by train**



Château of Chambord

At the heart of the
Loire Valley
UNESCO World
Heritage



Located on the campus of the **University of Orléans**

Founded in 1306

23 000 students
including 2 500 international students
1 200 teaching staff & researchers
800 administrative staff
27 laboratories
5 doctoral schools

5 fields of studies :

- Arts, literature and languages
- Humanities and social sciences
- Law, Economics and Management
- Sciences, Technology and Health
- Sports and Physical education



Polytech Orléans

The public graduate engineering school of the University of Orléans

- 1 400 engineering students
- 280 graduates each year
- 50 technical and administrative staff
- 100 professors and researchers
- 7 associated research institutes



The **POLYTECH Group** is a consortium of **Graduate Schools of Science and Engineering** of the French public universities.

The **POLYTECH Schools** are associated with internationally-renowned science research labs and deliver a **government-accredited, 5-year Master of Science in Engineering**.



French Engineering **Excellence™**











POLYTECH Group | A National Powerhouse

- 16** Graduate Schools of Engineering
- 4** Associate Schools
- 12** Science & Engineering Fields
- 100** Majors
- 18,000** Students enrolled annually
- 3,900** Graduating Engineers annually
- 2,500** Internships or Study-Abroad Programs annually
- 640** PhD Candidates annually
- 162** Science Research Labs



POLYTECH Offer | Take Your Pick

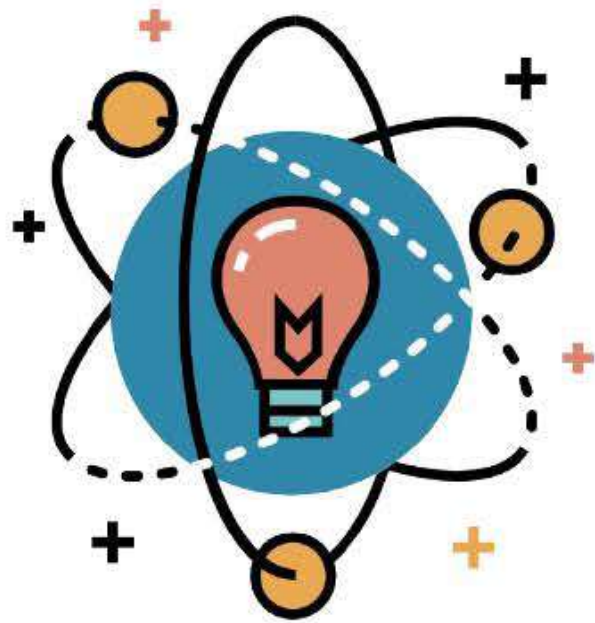
-  Applied Mathematics
-  Biomedical Engineering, Instrumentation
-  Biotechnology, Bioengineering and Food Science
-  Civil Engineering
-  Computer Science
-  Electrical Engineering
-  Electronics Engineering
-  Energy, Chemical Engineering
-  Industrial Engineering
-  Materials Science
-  Mechanical Engineering
-  Water Engineering and Environmental Sciences

12
Fields

100
Majors

3,900
Graduates/year

POLYTECH DNA | **Science**-trained, **Transition-ready** Engineers



SCIENCE & SUSTAINABILITY

Engineering studies in France



Engineering Master Degree

Year 5
Master 2

Year 4
Master 1

Year 3
Bachelor level

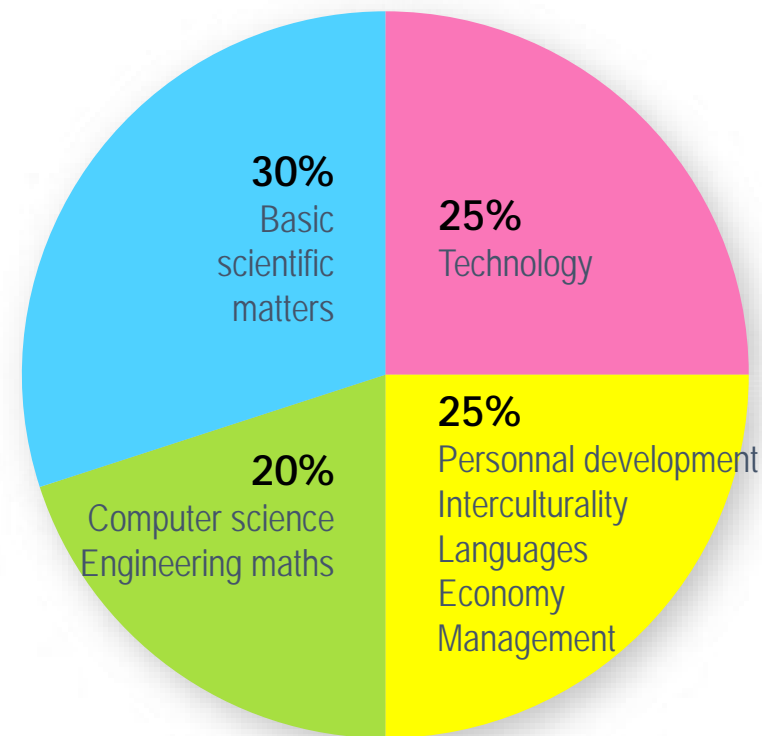
Preparatory
courses 2

Preparatory
courses 1

3 years in one engineering
department
+
3 compulsory internships
(1-2 & 6 months)

2 years of preparatory
courses

Entry requirements



B2 English / French required

Courses taught in French
Courses available in English

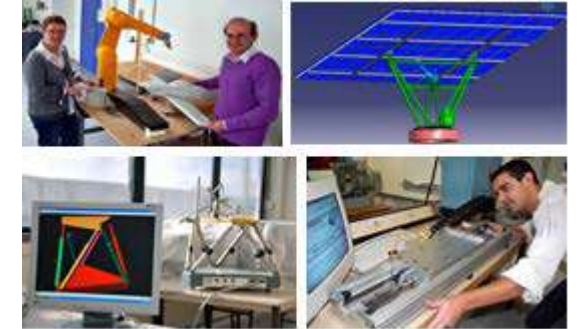
7 engineering departments at Polytech Orléans

Civil and Geo-environmental Engineering



Engineering Physics and Embedded Systems

Innovations in Design and Materials

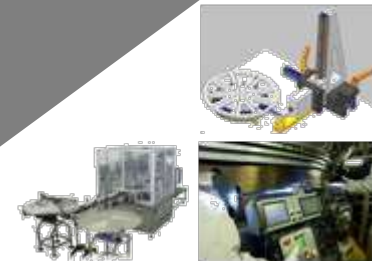


Technologies for Energy, Aerospace and Engine



Industrial Engineering applied to Cosmetics, Pharmacy and Food-processing industries

Smart Building*



Production Management*

*Apprenticeship / not open to International students

Incoming and outgoing Student and staff mobility

Collaborations within Europe
Over 70 signed Erasmus + agreements

Collaborations outside Europe
About 70 signed agreements

Erasmus in Iasi, Romania



The city : Iasi
- 4th city of Romania
- 60 000 students and 5 universities
- Cultural, economic and university center of the area

The university : « Gheorghe Asachi » Technical University of Iasi
- 11 different faculties
- Sport facilities
- Dormitories for accomodation

The life as an Erasmus student
- About 25h of class per week
- A very dynamic ESN association (1 party per week, trips)
- Opportunities to travel all around Romania (free trains for students)

Erasmus +

Academic year 2018-2019

STUDY PERIOD IN BUDAPEST !

Budapest University of Technology and Economics



Budapest in a few words ...

- Cheap city (forint as currency, 320 Ft = 1 euro)
- Beautiful campus with excellent sports facilities
- Public transport costs 50 euros/semester, very punctual and clean !
- A divine capital with its monuments, thermal baths and culinary specialties ! (Goulash, pastries, many cafes and tea bars)
- An excellent Erasmus network (perfect organization, outing and visit to Budapest and the surrounding cities)
- A magical night life (flair bars, clubs all over the city)
- Good university for students in technology or management !

Name : Victor COULON
Study period : Fall semester 2018



Study periods / Double degrees / Volunteering /
Summer schools / Internships / Wwoofing ...

Trondheim



NTNU

Life in Trondheim :

- Student city
- Human-sized city with charming center.
- Mountain and Sea in the same area.
- Scandinavia Culture :
- Calm Town, kind and discreet people.

Moholt Student Village

Accommodation :

- flatsshare with 4 international students in a student village.
- All amenities nearby (Gym, laundry, general store, bus station)

Come discover the most beautiful places in the world ! (Lofoten Islands, Bergen, Geiranger...)

Compulsory international experience to make in order to graduate!

OAMC

Welcome to Oulu !

Fourth largest city of Finland

Highest temperature +30° C / Lowest temperature -30° C

198 000 inhabitants / 8500 students / 583 foreign students per years

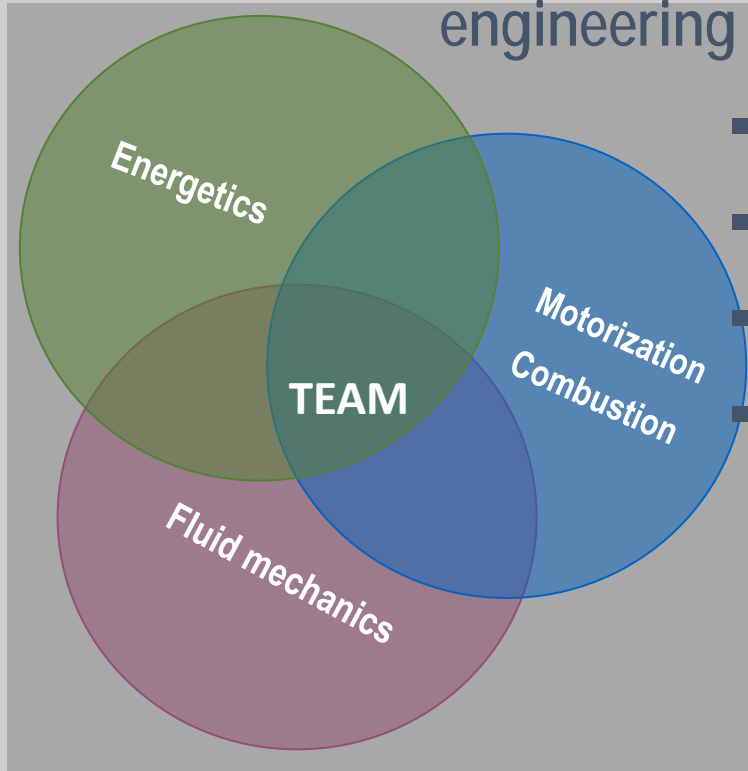
Engineering studies in English :

- Building Services
- Civil Engineering
- Energy Technology
- Mechanical Engineering

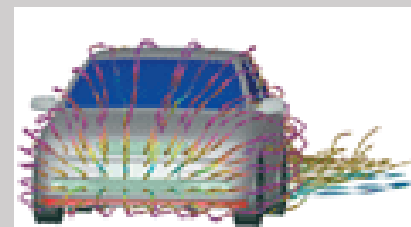


Department TEAM 'Technologies for Energy, Aerospace and Engine'

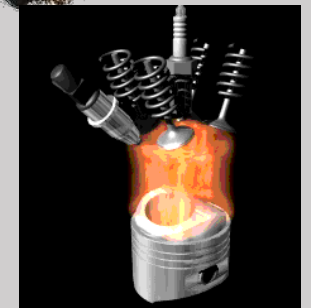
Young graduate engineers able to integrate the industrial fields of mechanical engineering applied to energy processes and able to design, test and improve:



- Engines
- Energy system for power plant or buildings
- Ground or aircraft vehicles
- with a global approach of energy efficiency and climate impact while integrating different constraints (standards, economy, cost, sustainability ...)



Keywords:
Energy production/harvesting
Land & Air Transportation



Department GCGE 'Civil engineering and geo-environment'

To train and to graduate engineers in Civil Engineering, Planning, Construction, Environment

► 3 specializations:

- Sustainable Construction (COD)
- Public Works and Planning (TPA)
- Geo-environment and Sustainable City (GVD)

1800 hours of class work:

Professional Courses

Materials resistance, Sizing of structures, Reinforced concrete, ...
Geotechnics, Earthworks, Foundations, Transport infrastructure, ...
Geology, Environmental impact of planning, ...

School Common Courses

Management, Engineering tools, Culture, English, ...
Industrial Projects at School & Professional Experience in companies.



Our partners :

Bouygues construction, Eiffage construction, Vinci construction, Baudin Châteauneuf, ...

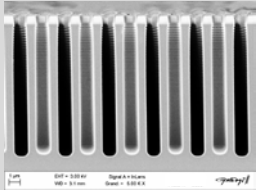
Vinci, Colas, Egis, Eiffage, Eurovia, Ingerop, Arcadis, ...

Antea Group, Ginger-CEBTP, Artelia, Fondasol, ORTEC Générale de Dépollution, SETEC, Suez, Veolia, ...

Department GPSE 'Engineering physics and embedded systems'

From material processing to embedded systems

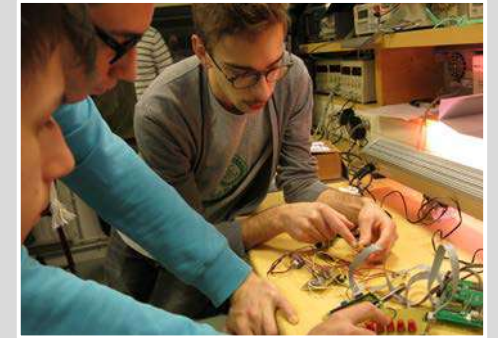
Micro & nano technologies



Internet of things



Vision & computing science



Photonic & lighting engineering



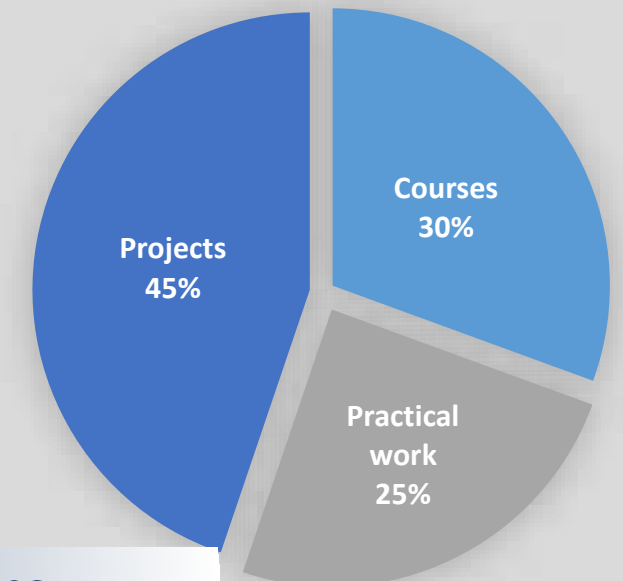
Plasma & laser engineering



Technology Facilities: clean room (ISO8), Laser and plasma lab, Fablab, photonics, electronics and computer dedicated rooms for practical work

Employment placement: research engineer, project engineer, process engineer

Join high tech companies for future connected services



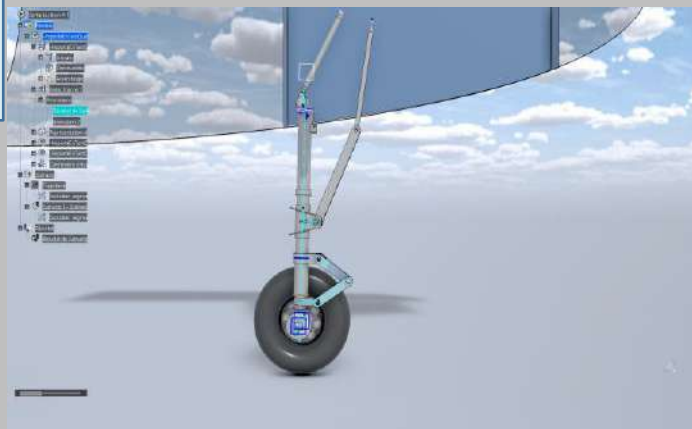
Department ICM 'Innovations in design and materials'

1st & 2nd
year

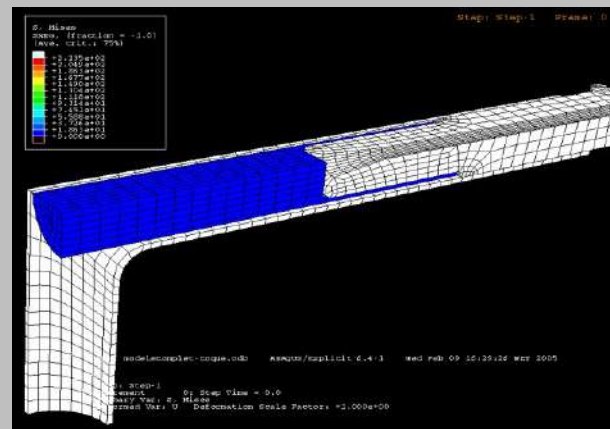
Common skills (design, modelling, simulation, instrumentation and materials)

3rd
year

Eco-design
of mechatronic systems
(EcoSyM)



Multiphysics modelling
and simulation
(MSP)



Materials of
structures
(MS)



ENGINEER

Modelling

Design office

Simulation

R&D

Trials

Sectors : Transport (automotive, aeronautics, naval, rail way, agriculture), Energy Production, heavy Industry, mechanical construction, Materials (metallurgy, composites, plastics, ceramics...)



Department GI 'Industrial Engineering applied to cosmetics, pharmacy and agri-food'

Trains engineers capable of meeting the challenges of manufacturing and industrializing the products of tomorrow in strategic sectors

Professional Courses

Industry 4.0, Supply Chain Management, Quality, Maintenance, Qualification/Validation, Continuous Improvement, LEAN Management, Office and Manufacturing, 6 Sigmas, Health, Safety and Environment, Corporate Social Responsibility

General Subject Courses

Management, Engineering tools, International Culture, English etc.,
Industrial Academic Projects & Professional Experience in companies.

Our partners :

NOVO NORDISK, LOREAL, PUIG, SANOFI, DANONE, MERCK, MARS, GUERLAIN, NOVARTIS, SODEBO, LEO PHARMA, APTAR PHARMA, LVMH, RECKITT BENCKISER, NOVANDIE, CEVA, ...

Professional Certifications

VISAE Pharma

FAPICS FESTO : MFSC

LEAN 6 SIGMAS

CPIM Part 1

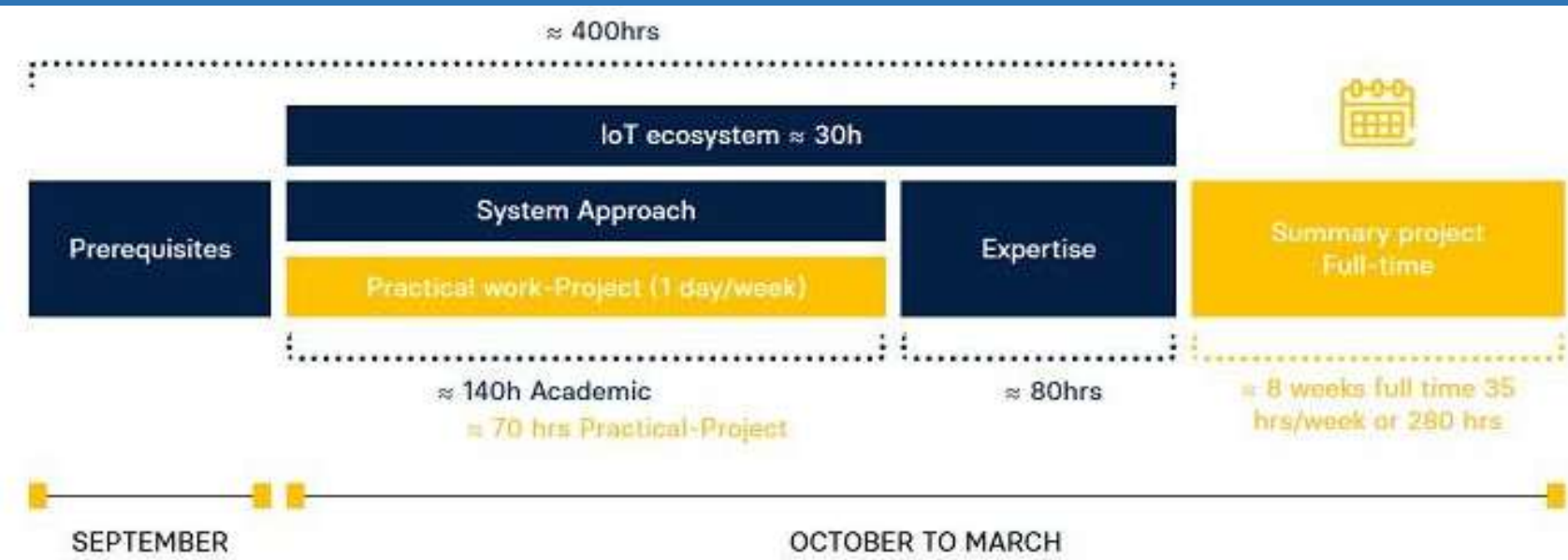
FESTO



CPIM
CERTIFIED IN PRODUCTION AND INVENTORY MANAGEMENT



Other programme: 'School of IoT – Internet of Things'



Prerequisites

2 x 40 hrs modules out of 4 :

- Mathematics
- IT
- Analogue and digital electronics
- Web and networks

System Approach

7 modules over 140 hrs :

- Architectures and technologies
- Communications
- IoT Design
- Servers and Frameworks
- Smartphones and Tablets
- Databases
- Data Mining

Expertise

1 module over 80 hrs out of 3 :

- Embedded System
- Full-Stack Integration
- Data Science

HITACHI
Inspire the Next

ORLÉANS
MÉTROPOLÉ

- Dedicated to non-French students only;
- Entirely taught in English
- Professional purpose in the field of automotive engineering



Low Environmental Impact Mobility

- **Powertrain**

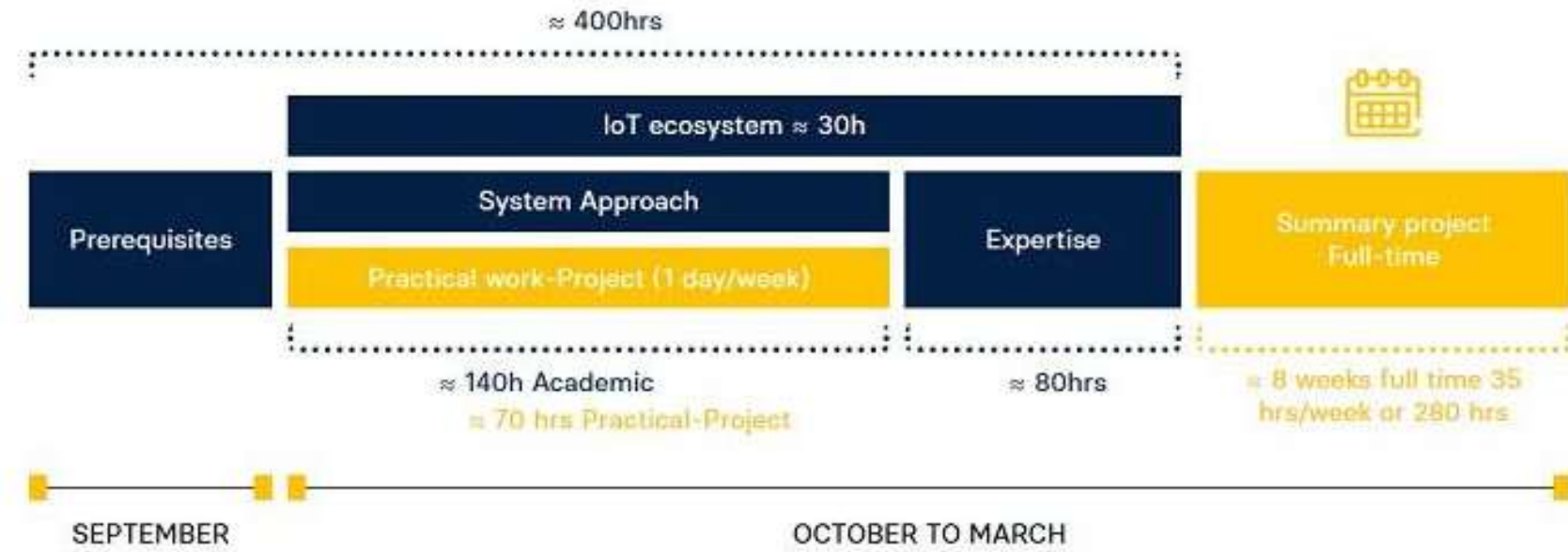
- New powertrain concepts (hybrids, alternative fuels, downsizing ...)
- Low emission concepts
- Electrification

- **Vehicular networks and embedded systems**

- Control and On-Board Diagnostics
- Vehicular communication and automatic driving
- Traffic management



School of IOT – ‘Internet of Things’



HITACHI
Inspire the Next

ORLÉANS
M É T R O P O L E

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- Data Science

[Application form:
http://www.univ-orleans.fr/fr/polytech/iot-application-form-0](http://www.univ-orleans.fr/fr/polytech/iot-application-form-0)

Entrepreneurship



FABLAB ORLÉANAIS

STARTUP

De la curiosité entrepreneuriale au projet de startup

Elèves, personnels, diplômés, découvrez un nouvel espace dédié à la culture et à la pratique de l'entrepreneuriat innovant. Polytech Orléans développe l'entrepreneuriat, la création et l'innovation auprès de ses diplômés et



POLYTECH
STARTUP
LOUNGE
Orléans



Associated research institutes

GREMI

Research group for Energetics of Ionized Environments

PRISME

Multi-disciplinary Research Institute in Systems and Mechanical Engineering

LaMé

Lab of Mechanical and Civil Engineering

CEMHTI

Extreme Conditions and Materials: High Temperature and Radiation

ICMN

Interfaces, Confinement, Materials and Nanostructures

ISTO

Institute of Earth Sciences of Orleans

ICARE

Institute of Combustion, Aerothermal, Reactivity and Environment



Links with 3 Research Centers



National Research Center

The French Geological Survey



National Research Institute for

4 Regional Industrial Clusters



Perfumery and cosmetics resources, skills, research and training



Electricity technologies, in the service of energy management



Rubber and polymers



Environmental technologies related to water and its environments



Incoming student support

The central international office of the University of Orléans & Polytech Orleans international officers help international students with their registration, accommodation & other administrative procedures.
International students can attend French courses at **the French Institute** for 65€ per semester;



INTERNATIONAL EXCHANGE
ERASMUS STUDENT NETWORK

help the incoming students to integrate and join social clubs and events.
An orientation week is organized at the beginning of each semester.

Everyday life on our campus

Students can live:

- In dormitories on or off campus (from 250 € per month + around 60€ insurance)
- In a private accommodation
- With a host family (around 450€ per month)

University restaurants:

- 4 cafeterias
- 1 pizzeria
- 1 foodtruck
- 4 restaurants: 3,50€ = starter + hot meal + cheese + dessert + bread

Health Center

Sports Center

Center for people with disabilities

Public transportation: Easy access to Orleans city center by bus & tram



Orléans, a cultural city...



Saint Fiacre festival



Joan of Arc festival

With several festivals...



The international Loire festival



The Christmas market

COME AND STAY WITH US !

International Relations Office

Contact : international.polytech@univ-orleans.fr

University of Orléans welcome guide :

<https://www.calameo.com/read/005608029fcec107fe658>

Application procedure for exchange students:

<https://www.univ-orleans.fr/en/univ/international/coming-university/exchange-programmes>



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