

Bourges University Institute of Technology

IUT Bourges



2-year
University
Degrees

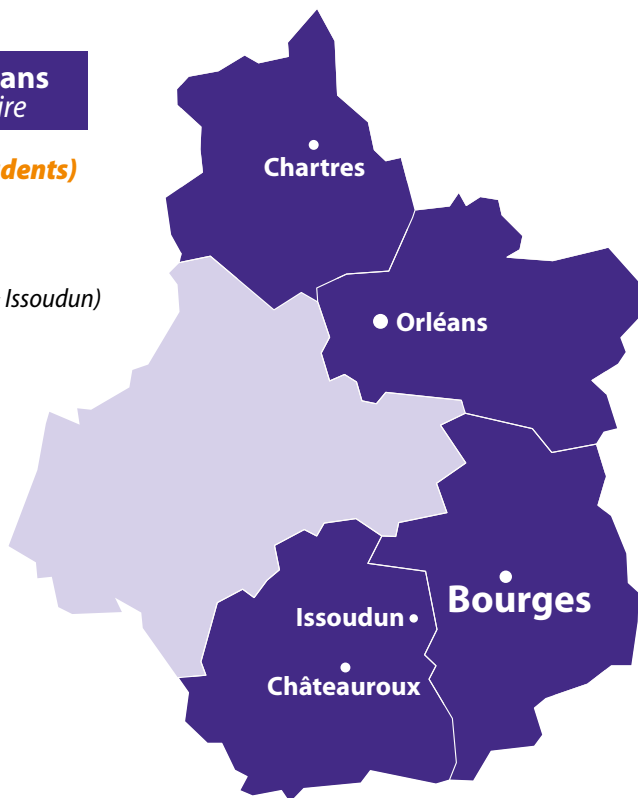


Where in France?

The University of Orléans *in Région Centre-Val de Loire*

5 campuses (16 000 students)

- Chartres campus
- Orléans main campus
- Bourges campus
- Indre campus (*Châteauroux & Issoudun*)



Bourges - Paris

- A 2-hour train ride





2-year
University
Degrees

What can you study?

UNDERGRADUATE LEVEL
(DUT = YEARS 1 & 2 = 120 ECTS)

CS

Social Studies

Carrières Sociales Option Gestion Urbaine

GC-CD

Civil Engineering

Génie Civil - Construction Durable

GMP

Mechanical Engineering

Génie Mécanique et Productique

MP

Instrumentation and Measurement

Mesures Physiques

QLIO

Quality, Industrial Logistics and Organisation

Qualité, Logistique Industrielle et Organisation

GEA

Public and Business Management

Gestion des Entreprises et des Administrations



Social Studies

Carrières Sociales Option Gestion Urbaine

2-year courses

Students follow a 2-year training after A-Levels and study the following subjects:

- Urban policies
- City planning
- Management of institutions/associations
- Sociology
- Ethnicities
- Computing
- Territory diagnosis
- Communication
- English
- Law
- Economics

Skills

Students who have graduated in Urban Management have the right skills to:

- ✓ work in an association, a local government or a company
- ✓ face the challenges of the city of today
- ✓ contribute to the making of urban citizenship
- ✓ manage a public or private organisation and negotiate with the relevant external partners
- ✓ manage projects, people and capital flows
- ✓ collect, synthesise and use the information necessary for decision-making
- ✓ develop the information systems needed for efficient management

To complete their training, they have to carry out:

- ✎ A project work
- ✎ A first year 4-week placement
- ✎ A second year 8-week placement



INTERNATIONAL OFFICE

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Urban Management

Tools

Students are familiar with the following tools:

- ✓ Word
- ✓ Excel
- ✓ Powerpoint
- ✓ Access
- ✓ MS project



Placements

- ✓ January and February (8 weeks)
- ✓ May (4 weeks)

Examples of project works

During their placement, the students can be required to:

- ✓ assist local associations
- ✓ manage local projects
- ✓ work on town and country planning projects
- ✓ devise communication tools
- ✓ assist implementing urban planning policies
- ✓ survey residents



2-year
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63 avenue du Maréchal de Lattre de Tassigny - 18020 Bourges Cedex
FRANCE

2-year courses

Students follow a 2-year training after A-Levels and study the following subjects:

- Professional English language
- Professional communication
- Materials and technology
- Mathematics
- Science and modelling
- Construction and structure
- Geotechnics
- Topography
- Project management
- Sustainable construction
- Structural and finishing works
- Hydraulic
- Public Works
- Architectural design

To complete their training, they have to carry out:

- A project work
- A first year 4-week placement
- A second year 6-week placement

Skills

Students who have graduated in Civil Engineering have the right skills to:

- ✓ analyse a construction project
- ✓ find solutions for a construction plan
- ✓ study and enforce building regulations
- ✓ make calculations

Sustainable Construction



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Building and Publics Works

Tools

Students are familiar with the following tools:

- ✓ Computer Aided Design softwares (CAD, Autocad, Revit...)
- ✓ Topographical material
- ✓ Geotechnical test devices
- ✓ Measuring devices for thermal comfort (hydrometer, thermal imaging camera, sonometer)
- ✓ Test bench for the resistance of structures (concrete press, metal and wood framework test)

Second year students can do:

- ✓ A higher education training
- or
- ✓ A block release training course (contract or apprenticeship)



Placements

- ✓ April to mid-May (6 weeks)
- ✓ June (4 weeks)

Examples of project works

During their placement, the students can be required to:

- ✓ study an office building with Building Information Modeling (BIM)
- ✓ renovate a school in a low altitude region
- ✓ make a 3D mock-up of the Villa Savoye



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Mechanical Engineering and Computer-Integrated Manufacturing

Génie Mécanique et Productique

2-year courses

Students follow a 2-year training after A-Levels and study the following subjects:

- General & professional English language
- General & professional communication
- Industrial processes
- Production management
- Metrology
- Machine maintenance
- Quality
- Mathematics statistics
- Production forecasts
- Manufacturing (CNC, 3D printing, laser cutting...)
- Computer Engineering: CAD, CAM
- Design office, R&D
- Automation, electronics
- I.T. skills

To complete their training, they have to carry out:

- A project work
- A 10-week work placement

Skills

Students who have graduated in Mechanical Engineering have the right skills to:

- ✓ control and manage production (planning, scheduling, follow-up, optimization)
- ✓ ensure manufacturing quality and quality control
- ✓ design new parts and systems
- ✓ assess performance
- ✓ improve production rate and flows
- ✓ manage stocks



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Industrial skills

Tools

Students are familiar with the following tools:

- ✓ Solidworks, CatiaV5, Office, Excel, 5S, Lean manufacturing, Flow chart, Gantt, Supply chain, Kanban...

Placement

- ✓ from April to mid-June (10 weeks)



Examples of project works

During their placement, made possible in a wide variety of companies, the students can be required to:

- ✓ improve a work station applying method to reduce tool exchanging time
- ✓ analyse the flows of products or operators and then propose a new facility layout
- ✓ analyse a production line, and propose solutions to improve the rate
- ✓ implement a stock management technique
- ✓ analyse existing part or mechanical system and improve it, or design a new participate to industrial projects within a team in the design office for example
- ✓ help reduce manufacturing problems or machine stops

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2-year courses

Students follow a 2-year training after A-Levels and study the following subjects:

- Chemistry
- Physics
- Maths
- Electronics and Instrumentation
- Fluid mechanics
- Computing
- Optics
- Thermal transfer
- Materials engineering
- Communication
- English

Skills

Students who have graduated in Instrumentation and Measurement have the right skills to work in all industrial sectors:

- ✓ car industry
- ✓ aeronautics
- ✓ nuclear energy
- ✓ pharmaceuticals
- ✓ chemicals
- ✓ the environment
- ✓ electronics
- ✓ industrial IT
- ✓ telecommunications

To complete their training, they have to carry out:

- ☞ A project work
- ☞ A 10-week placement



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Tools

Students are familiar with the following tools:

- ✓ Word, Excel, Power point, MatLab, LabView, C Language

Placement

- ✓ from April to mid-June (10 weeks)



Examples of project works

During their placement, the students can be required to deal with:

- ✓ surface physico-chemical analysis
- ✓ water pollution analysis
- ✓ wood treatment via plasma
- ✓ experimental bench controlled via labview
- ✓ control and management of electrical name devices (lighting and electric Venetian blinds)
- ✓ sensors controlled via Arduino (Uno Mega)
- ✓ on-site chalet ecological study impact



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Quality, Industrial Logistics and Organization

QLIO

2-year courses

Students follow a 2-year training after A-Levels and study the following subjects:

- General & professional English language
- General & professional communication
- Industrial processes
- Plant layout
- Ergonomics
- Maintenance
- Quality management
- Statistics, algebra
- Operational Research
- Production forecasts
- Scheduling
- Computer Engineering (Data Bases)

Skills

Students who have graduated in Quality, Industrial Logistics and Organization have the right skills to:

- ✓ control and manage production (planning, scheduling, follow-up, optimization)
- ✓ ensure manufacturing quality and quality control
- ✓ manage quality (traceability, safety, environment, certification)
- ✓ assess performance
- ✓ improve facilities
- ✓ improve working conditions (ergonomics, safety, hygiene)
- ✓ manage flows (of product and data)
- ✓ manage stocks

To complete their training, they have to carry out:

- ✎ A project work
- ✎ A first year 3-week placement
- ✎ A second year 10-week placement



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Production management

Tools

Students are familiar with the following tools:

- ✓ 5S, 6 Sigma, TPM, PDMI, PDCA, FMECA, Lean manufacturing, SMED, Flow chart, Gantt, Value Stream Mapping, Just In Time, Supply chain, Kanban...



Placements

- ✓ January (3 weeks)
- ✓ April to mid-June (10 weeks)

Examples of project works

During their placement, the students can be required to:

- ✓ improve a work station applying SMED method to reduce tool exchanging time
- ✓ analyse the flows of products and then propose a new facility layout control
- ✓ analyse a production line, choose indicators and propose improvements for production control
- ✓ implement a FIFO stock management
- ✓ analyse maintenance and then submit proposals for a new management
- ✓ devise data mining (Excel, Access...) for any application (production control, stock management...)



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2-year courses

Students follow a 2-year training after A-Levels and study the following subjects:

- Communication
- Statistics / Probabilities
- Labour law
- Accounting
- Taxation
- Economics
- Management control
- Sociology
- Marketing
- Financial mathematics
- Computing
- English (possibly Spanish and German as a second language)

Skills

Students who have graduated in Public and Business Management have the right skills to:

- ✓ master the accounting, financial and budgetary methods, procedures and techniques
- ✓ participate in the development of an economic, accounting and financial information system
- ✓ participate in the devising and monitoring of tools for decision-making in the economic and financial domain
- ✓ manage a public or private organisation in all its domains (logistics and marketing, legal and tax, accounting and financial) and negotiate with the relevant external partners
- ✓ collect, synthesise and use the information necessary for decision-making
- ✓ develop the information systems needed for efficient management

To complete their training, they have to carry out:

- ☞ A project work
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- ☞ A second year 8-week placement



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Finance-accounting SMEs management Human resources management

Tools

Students are familiar with the following tools:

- ✓ Word, Excel, Power point, Access, Sage, Shadow manager...

Placements

- ✓ January (3 weeks)
- ✓ April-May (8 weeks)

Examples of project works

During their placement, the students can be required to:

- ✓ assist with accounts
- ✓ assist in clerical work
- ✓ devise welcome or orientation booklets
- ✓ carry out market surveys
- ✓ implement stock management
- ✓ perform front-office tasks
- ✓ develop websites



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Partner Universities

> Erasmus+ agreements with:

-  University of Cordoba, Spain
-  University Hochschule in Augsburg, Germany
-  The John Paul II Catholic University of Lublin, Poland
-  University of Örebro, Sweden
-  Maritime University of Constanta, Romania
-  Gheorghe Asachi Technical University of Iasi, Romania
-  Cyprus University of Technology, Limassol, Cyprus

> Bilateral agreements with three Canadian Institutions:

-  Université du Québec à Chicoutimi
-  Université du Québec à Rimouski
-  Cégep de Saint Jean sur Richelieu



students, researchers,
companies, local authorities

**A successful
international
experience**

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How many students?

1 100 students

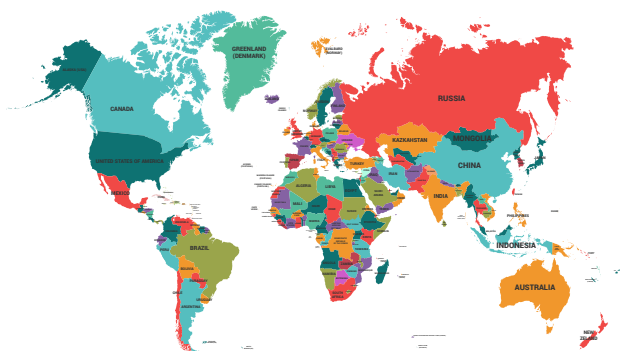


- ✓ 250 apprentices
- ✓ 750 placements within France
- ✓ between 35 and 55 placements abroad
- ✓ 600 graduates yearly



**Among which 10%
mainly originating from**

- ✓ Europe
- ✓ Africa
- ✓ Asia
- ✓ Oceania
- ✓ The Caribbean
- ✓ South America



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Bourges, a beautiful historic city



Bourges, medieval city, capital of France from 1422 to 1436

In 1418, the dauphin Charles, (heir apparent to the throne) was chased out of Paris by the Armagnacs, he moved to Bourges onto his uncle's land where he finds financial resources, administrative, judicial and military personnel who served faithfully Duke John of Berry.

In 1422, when he became King Charles VII, he made Bourges, the capital of the Kingdom of France, with the Parliament in Poitiers, until the resumption of Paris in 1436.

His meeting with Jacques Cœur which he named the «Big coin» was crucial in the reconquest of his Kingdom and it earned him the nickname of Charles the Victorious.

His son Louis XI, born in Bourges, built in 1463, a University with four faculties: Arts, law, theology, and medicine.

Saint-Etienne Cathedral: Classified as a UNESCO World Heritage Monument, the cathedral marks the birth of Gothic art in the southern France.

Place Gordaine and the medieval quarter: The timber-framed houses dating back to the XVth century make this old part of Bourges the most charming district of the town. In the streets of the medieval quarter, old shops and antique dealers help to preserve the original aspect.



Palais Jacques Cœur

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Saint-Etienne Cathedral

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TOURIST INFORMATION OFFICE

www.bourgesberrytourisme.com

- ✓ Bourges in Centre-Val de Loire Region
- ✓ Prefecture of the Cher Département
- ✓ Capital of the province of Berry
- ✓ 65.000 inhabitants & urban area 135.000

Bourges area

Bourges marshland

The marshlands offer a breath of fresh air and a great place to stroll.

The flourishing vegetal growing industry that existed here in the 19th century has now declined, but the labyrinth of 1500 gardens and meandering streams continues to surprise visitors with its quaint and quiet charm.

Verrerie Castle

The Castle originated in 1422. That year, King Charles VII gives the County of Aubigny to Jean Stuart, Earl of Darnley, Constable of Scotland in recognition of his good and loyal service during the Hundred Years War, in the battle against the English.

Wines of the central Loire Valley: Sancerre, Menetou-Salon, Quincy, Reuilly, Coteaux du Giennois, Châteaumeillant and Pouilly-Fumé.



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Verrerie Castle (Château de La Verrerie)



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Meillant Castle (Château de Meillant)



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IUT Bourges

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Institut Universitaire de Technologie

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