This programme allows non-French speaking students to obtain the Polytech Tours Engineering Master Degree after a 3 year-curriculum.

The first year is adapted (see curricula on the next page).

Year 4 and 5 are standard (see the curriculum of each speciality).

The students usually come from the following partner universities:

- Beijing Institute of Technology - China
- Beijing University of Chemical Technology - China
- University of Science and Technology Beijing - China
- Anna University - Chennai - India
- Beijing Forestry University - China
- Beijing Jiaotong University - China
- Northeastern University - China
- Harbin Engineering University - China
- University of Petroleum - Beijing - China
- Dalian Maritime University - China
- Vellore Institute of Technology - India
- City university of Hong-Kong - China
- Dalian University of Technology - China
The specialties you can enter are the following:

- Computer Science
- Electronics and energy systems
- Mechanics and system design
- Urban and Territorial Planning and Environment

Requirements to apply:

- be enrolled in a bachelor degree
- have started learning French (min TEF 200)
- a coherent professional project
- good academic results
- good English level

An interview with Polytech professors regarding the motivation of the applicant and his / her level both in French and English is also compulsory.

More than 300 students have participated in the Mundus program over the last 10 years.
All these programmes are submitted to an agreement between the two universities.

Contact

Mundus Department
mundus.polytech@univ-tours.fr
Tél. : +33 (0)2 47 36 13 37

Polytech Tours
Departement Mundus
64, avenue Jean Portalis
37200 Tours, FRANCE

Testimony

Shang Lei

These three years in France have truly been like an adventure for me. It has been fulfilling on many aspects: science, linguistics, culture and perhaps also philosophy. When a person takes his place in a completely new environment, unforeseen things happen from all sides. It pushes him to think differently and therefore more globally. I absolutely love these experiences. Thankfully for me, the story goes on...
Curricula

Computer science

<table>
<thead>
<tr>
<th>SEMESTER 5 (200h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Algorithms</td>
</tr>
<tr>
<td>• Introduction to software engineering</td>
</tr>
<tr>
<td>• Project</td>
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<tr>
<td>• Illustration of an operating system: Unix</td>
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<tr>
<td>• Data bases</td>
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<td>• Scientific English</td>
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<tr>
<th>SEMESTER 6 (200h)</th>
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<tbody>
<tr>
<td>• Object programming</td>
</tr>
<tr>
<td>• UML</td>
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<tr>
<td>• C++ programming</td>
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<tr>
<td>• Java programming</td>
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<tr>
<td>• Synchronizing tool</td>
</tr>
<tr>
<td>• Distributed systems</td>
</tr>
<tr>
<td>• English for specific purposes</td>
</tr>
<tr>
<td>• Project management, participative process</td>
</tr>
<tr>
<td>• Internship</td>
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</tbody>
</table>
# Electronics and energy systems

## SEMESTER 5 (200h)

- Electrotechnics
- Automated systems
- Power electronics : DC-DC conversion
- Fundamentals in electronic circuits
- Basic functions of electronic systems
- Practical works and CAD in electronics I : analogue and digital circuits
- Scientific English

## SEMESTER 6 (200h)

- Flow and Resource Management
- Sensors
- Data acquisition
- Production, transportation and distribution of electrical energy
- Energetic system sizing
- Project in electronics
- English for specific purposes
- Project management, participative process
- Internship
# Mechanics and system design

**SEMESTER 5 (200h)**

- Electrotechnics
- Automated systems
- Material science
- Mechanical construction
- Scientific English

**SEMESTER 6 (200h)**

- Flow and Resource Management
- Sensors
- Data acquisition
- Fluid mechanics
- Project in mechanical construction
- Specifications
- English for specific purposes
- Project management, participative process
- Internship

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**Urban and territorial planning and environment**
### SEMESTER 5 (200h)

- Ecology
- Environment laws
- Sociology
- Economics
- Theory of planning and urban design
- Drawing and spatial representation
- Scientific English

### SEMESTER 6 (200h)

- Earth Sciences
- Hydrology
- Environmental evaluation
- Urban planning Laws
- Urban design
- Planning and project
- English for specific purposes
- Project management, participative process
- Internship

Each specialty curriculum is completed with a curriculum in French as a second language:

<table>
<thead>
<tr>
<th>SEMESTER 5 (200h)</th>
<th>SEMESTER 6 (200h)</th>
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</thead>
<tbody>
<tr>
<td>FSL</td>
<td>FSL</td>
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</tbody>
</table>
- Grammar
- Speaking workshop
- Writing workshop
- Geography
- History
- Life in France and intercultural issues
- Methodology
- Cultural activities

- Grammar
- Speaking workshop
- Writing workshop
- Preparing for the TCF
- Institutions
- Current affairs
- Business French
- Drama

Fourth and fifth year are standard See the curriculum of each speciality for details.

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