# 1. 法国图尔大学综合理工学院预科班，包括相关理工科专业的预科知识及法语培训，教学安排如下：

## Computer science

**SEMESTER 5 (200h)**
- Algorithms
- Introduction to software engineering
- Project
- Illustration of an operating system: Unix
- Data bases
- Scientific English

**SEMESTER 6 (200h)**
- Object programming
- UML
- C++ programming
- Java programming
- Synchronizing tool
- Distributed systems
- English for specific purposes
- Project management, participative process
- Internship

## Electronics and energy systems

**SEMESTER 5 (200h)**
- Electrotechnics
- Automated systems
- Power electronics : DC-DC conversion
- Fondamentals 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

## 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

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

**SEMESTER 5 (200h)**
- FSL
- Grammar
- Speaking workshop
- Writing workshop
- Geography
- History
- Life in France and intercultural issues
- Methodology
- Cultural activities

**SEMESTER 6 (200h)**
- FSL
- Grammar
- Speaking workshop
- Writing workshop
- Preparing for the TCF
- Institutions
- Current affairs
- Business French
- Drama

## 2. 法国奥尔良大学综合理工学院预科班，包括相关理工科专业的预科知识及法语培训，教学安排如下：

### MUNDUS Year 1st semester

| TU Code | Title of the Teaching Unit |
|---|---|
| **M5FR1** | French as a Foreign Language - FLE 1<br><br>*Written FLE*<br>*Spoken FLE* |
| **M5AN1** | English 1 |
| Scientific teaching | |
| **M5SC1** | *Windows C++ Programming* |

### MUNDUS Year 2nd semester

| TU Code | Title of the Teaching Unit |
|---|---|
| M6FR1 | French as a Foreign Language - FLE 2<br><br>*Written FLE*<br>*Spoken FLE* |
| M6AN1 | English 2 |
| Scientific classes and projects | |
| M6SC1 | *Mechanics* |

| | |
|---|---|
| M6SC2 | *Mechanics of Fluids* |
| **M6PS1** | *Scientific Project* |
| M6SC3 | *Rototic Project* |