

# RESEARCH APPRENTICESHIP EXCHANGE PROGRAM



## SUPERVISED PROJECTS IN THE FIELD OF ENGINEERING FOR INTERNATIONAL EXCHANGE STUDENTS

The “Research apprenticeship exchange program” is a course unit dedicated to international exchange students coming to Tours to study engineering sciences.

This individualized program enables students to carry out research projects related to laboratories’ topics of the Graduate School of Engineering ‘Polytech Tours’.

The students will be evaluated by means of an oral presentation, and a written report.

The students can complete their study program with French courses for foreign students and with field courses taught in French or English.

### LANGUAGE LEVEL

French : from B2 language level, i.e “Upper intermediate French” or  
English : from B2 language level, i.e “Upper intermediate English”

### ACADEMIC LEVEL

> 1st/2nd year Master’s  
> Students’ academic background should be relevant to the scientific field

### DURATION

1 semester: Fall or Spring

### ASSESSMENT

Up to 30 ECTS depending on the project

### APPLICATION

> Fall semester : before July 1st  
> Spring semester : before December 1st

**SUPERVISED STUDENT PROJECTS  
IN THE FIELD OF ENGINEERING  
FOR INTERNATIONAL EXCHANGE STUDENTS**

**RESEARCH  
APPRENTICESHIP  
EXCHANGE  
PROGRAM**

**EXAMPLE OF A  
STUDY PROGRAM**

**1**

**COMPULSORY :**

Select a Research project in the field of Engineering (from 20 to 30 ECTS)

**Electronics & Energy Systems :**

Electronic circuits, Digital communications systems, Power electronics

**Mechanics & System design :**

Simulation & experiments in solid or fluid mechanics, Polymer Mechanics, Machining & additive manufacturing, Control & robotics

**Spatial Planning & Environmental Engineering :**

Urban & regional development strategies, Hydrology & hydraulics, Terrestrial & aquatic ecology, Ecocity development models

**Computer Science :**

Operations Research, Scheduling & Transportation, Pattern Recognition, Artificial Intelligence (AI)

Contact : [international.polytech@univ-tours.fr](mailto:international.polytech@univ-tours.fr)



**2**

**OPTIONAL :**

Choose some disciplinary courses taught in English or in French (from 5 to 10 ECTS)

Check at our online catalogue : <http://cces.univ-tours.fr>

**3**

**OPTIONAL :**

Enroll in French courses for Foreign students (from 8 to 12 ECTS)

Up to 3 courses per semester, such as Written French, Oral French, \*Cultural Option

*\*(from B1 level in French)*



**4**

**OPTIONAL :**

Take part in the Service Learning course / Intercultural exchange with French students (3 ECTS)

20 hours of conversation throughout the semester.  
Open to English & Spanish speaking students.

