

Study in English in France

The UTT offers a large catalogue of courses to its students.

Most courses are fully taught in the French language but some courses can be taught exclusively and entirely in English or both in French and English. This depends largely on the number of foreign students enrolling in each course. Sometimes, an extra hour is given in order to review the elements that were introduced in French during the lectures. This method allows students to receive information in both languages and to improve their French language skills while getting some instruction in English.

The main idea behind this method is that while foreign students may require instruction in English they should not be isolated from French students. The UTT wants to offer students every opportunity to develop their language abilities (technical, scientific...) and to optimize their experience in France.

The courses at the UTT are divided in six categories:

- **Connaissances Scientifiques (CS)**
CS courses develop vocabulary, knowledge and concepts that enable structure thinking, reasoning to analyze problems, to implement models and to propose methods of resolution. They allow the development of fundamental skills: the acquisition of scientific and technical knowledge.
- **Techniques et Méthodes (TM)**
TM courses develop practical problem-solving methodologies and processes. These courses provide the tools and knowledge to solve complex problems in order to carry out projects. Thus, they complement the CS courses. They allow the development of fundamental skills: the mastery of the implementation of scientific and technical knowledge.
- **Expression et Communication (EC)**
EC courses develop the ability to speak and communicate in French or in a foreign language. They bring together not only all the practical and useful tools for effective communication and expression in all situations but also the essential cultural knowledge for international interactions. They allow the development of fundamental skills: to understand and to express oneself.
- **Management de l'Entreprise (ME)**
ME courses develop knowledge, expertise and methodologies applied to the management of the company in its technical and ethical aspects. They cover the accounting, financial, socio-economic and legal aspects that govern companies. They develop the spirit of entrepreneurship and bring the keys to innovation. They enable the development of fundamental skills: adapting to the specific requirements of the company and society, and taking into account the organizational dimension.
- **Humanités (HT)**
HT courses aim to develop fundamental skills: analyzing complex problems with uncertainties and ethical issues, acquiring reflexivity on practices, autonomy of thought and critical mind, and developing creativity. They allow the personal and cultural dimensions to be taken into account.
- **Other**
There are also other courses at the UTT such as internships, student projects or master courses.

As an indication, a UTT student follows on average 6 courses per semester:

- 4 courses chosen from the list of Connaissances Scientifiques (CS) and Techniques et Méthodes (TM) in the UTT catalogue
- 2 courses chosen from the list of Expression et Communication (EC), Management de l'Entreprise (ME) and Humanités (HT) in the UTT catalogue

Here you will find a list of courses that are taught entirely and partly in English:

Year 1/2 in English							
Code	Course title	Category	Fall	Spring	ECTS	Details	
MATH02A	Calculus: series and multivariable functions	CS		x	6	Entirely in English	
MATH03A	Linear Algebra	CS	x		6	Entirely in English	
PHYS02A	Mechanics of rigid bodies	CS		x	6	Entirely in English	
NF02A	Computers and Networks Organization	TM	x		6	Entirely in English	
NF06A	Practice of Programming	TM		x	6	Entirely in English	
Year 1/2 in English and French							
Code	Course title	Category	Fall	Spring	ECTS	French level	Details
SY01	Basis of probability calculations for engineers	CS	x		6	B2	If enough students, lectures and tutorials in English
Year 3/4 in English							
* A2I - Control and Computer Engineering GI - Industrial Engineering GM - Mechanical Engineering ISI - Informatics and Information Systems MTE - Materials Science and Technology MM - Materials processes and Manufacture RT - Networks and Telecommunication PAIP - Applied Physic and Engineering Physics Nano-Phot- Nanotechnology, Photonics (Graduate School)							
Code	Course title	Department	Category	Fall	Spring	ECTS	Details
CS01A	Value analysis and Functional Analysis	GM	TM	x		6	Entirely in English
IF02A	Object-Oriented System Analysis and Design	ISI	CS	x		6	Entirely in English
IF15	Knowledge engineering	ISI	TM		x	6	Entirely in English if students ask
FQ01A	Statistical Process Control and Quality Assurance	GI	TM	x		6	Entirely in English
LO01	Basis of computer science	-	CS	x		6	Entirely in English
MA20	Materials analysis and microscopic characteristics	MTE	TM		x	6	Entirely in English
MA21	Materials analysis and macroscopic characteristics	MTE	TM		x	6	Entirely in English if students ask
RE01A	Corporate networks	RT, A2I	TM	x		6	Entirely in English
TN14A	Introduction to computer-aided design	GM	TM		x	6	Entirely in English
QX01	Introduction to quantum information	-	CS		x	6	Entirely in English if students ask

Year 3/4 in English and French								
Code	Course title	Department	Category	Fall	Spring	ECTS	French level	Details
GL02	Programming engineering foundations	ISI	CS	x		6	B2	Lectures in French - materials in English, tutorials and exams in English if students ask
MQ03A	Dynamics and vibrations of mechanical systems	GM	CS	x		6	B1	Lectures in French, one tutorial group in English if enough student, exams in English
MQ06	Modeling structures using finite elements	GM	TM		x	6	B1	Lectures in French, materials, exams and one tutorial group in English
MT14	Operational research	GI	CS	x		6	B2	Lectures in French, materials, exam and one tutorial group in English if enough student
Year 4 in English								
LM01	Multi-scale characterization	PAIP	Master		X	6		Entirely in English, submitted to the approval of the professor
NOPH01	Nano-optics and nanophotonics	PAIP	Master		X	6		Entirely in English, submitted to the approval of the professor
EUR10	High resolution microscopies and spectroscopies	PAIP	Master		X	6		Entirely in English, submitted to the approval of the professor
EUR11	Nanofabrication and nanomaterials	PAIP	Master		X	6		Entirely in English, submitted to the approval of the professor
EIP01	Innovative companies : entrepreneurship, economic intelligence, and Intellectual properties	PAIP	Master		x	3		Entirely in English, submitted to the approval of the professor
Year 5 in English								
Code	Course title	Department	Category	Fall	Spring	ECTS	Details	
IF06A	Computer Supported Cooperative Work	ISI	CS	x		6	Entirely in English	
LO13	3D computer graphics, theory, and applications	GM	CS		x	6	Entirely in English	
OPTM01	Materials and devices in optics and optoelectronics	MTE	CS		x	6	Entirely in English	
OP02	Optical communications	MTE	CS	x		6	Entirely in English	
GP17	Planning and sequencing of production	GI	TM		x	6	Entirely in English if students ask	
MC01	Multi-scale characterization	Nano-Phot	Master	x		6	Entirely in English, submitted to the approval of the professor	
NOPH02	Hot topics in nano-optics and nanophotonics	Nano-Phot	Master	x		6	Entirely in English, submitted to the approval of the professor	
QO01	Quantum optics and nano-optics	Nano-Phot	Master	x		6	Entirely in English, submitted to the approval of the professor	

NT01	Nanotechnologies and industry	Nano-Phot	Master	x		6	Entirely in English, submitted to the approval of the professor	
MRPROJ	Management of research projects	Nano-Phot	Master	x		2	Entirely in English, submitted to the approval of the professor	
Year 5 in English and French								
Code	Course title	Department	Category	Fall	Spring	ECTS	French level	Details
RM02	Analysis of feedback data	GI	TM	x		6	B2	Tutorials and exams in French and English, materials in French
CLO4	Design and management of supply chain, customer-supplier coordination	GI	TM		x	6	B2	Materials and Exams in English, lectures in French, and one tutorial group in English if enough student
Other courses								
Code	Course title	Category	Fall	Spring	ECTS	Details		
PExx	Student project	PE	x	x	6	In English or in French		
ME courses								
Code	Course title	Category	Fall	Spring	ECTS	Details		
GE44	Intercultural Business and Management	ME	X	X	4	Entirely in English		
HT courses								
Code	Course title	Category	Fall	Spring	ECTS	Details		
EV00A	Philosophy of sustainable futures	HT	x			Entirely in English		
EV02	Environmental economics	HT	x	x	4	Entirely in English		
EV04A	Environmental risks : management and controversies	HT	x	x	4	Entirely in English during Fall Entirely in English during Spring if enough student		
EV13	Introduction to Environmental Science and Engineering	HT	x		4	Entirely in English		
X	France and Europe : History, civilization and institutions	HT		x	4	Entirely in English		
EC courses								
Code	Course title	Category	Fall	Spring	ECTS	Details		
CVF1	French songs	EC	x	x	4			
CVF2	Gastronomy in french culture	EC	x	x	4			
FA1E	French : written expression/comprehension – level A1	EC	x	x	4			
FA1P	French : oral expression/compréhension – level A1	EC	x	x	4			
FA2E	French : written expression/comprehension – level A2	EC	x	x	4			
FA2P	French : oral expression/compréhension – level A2	EC	x	x	4			
FB1E	French : written expression/comprehension – level B1	EC	x	x	4			
FB1P	French : oral expression/compréhension – level B1	EC	x	x	4			
FB2E	French : written expression/comprehension – level B2	EC	x	x	4			
FB2P	French : oral expression/compréhension – level B2	EC	x	x	4			
FC1E	French : written expression/comprehension – level C1	EC	x	x	4			

FC1P	French : oral expression/compréhension – level C1	EC	x	x	4	
IT00	Italian – Level pre-A1/A2	EC	x	x	4	
IT01	Italian – Level A1/A2	EC	x	x	4	
IT02	Italian – Level A2/B1	EC	x	x	4	
LC00	Chinese – Level pre-A1/A2	EC	x	x	4	
LC01	Chinese – Level A1/A2	EC	x	x	4	
LC02	Chinese – Level A2/B1	EC	x	x	4	
LE00	English – Training course A2	EC	x	x	4	
LE01	English – Level B1	EC	x	x	4	
LE02	English – Level B1/B2	EC	x	x	4	
LE03	English – Level B2	EC	x	x	4	
LE08	Professional english, BULATS reading, listening and speaking test preparation (C1)	EC	x	x	4	
LG00	German – Level A1	EC	x	x	4	
LG01	German – Level A1/A2	EC	x	x	4	
LG02	German – Level A2/B1	EC	x	x	4	
LG03	German – Level B1/B2	EC	x	x	4	
LG08	German – Level B2	EC	x	x	4	
LS00	Spanish – Level A1/A2	EC	x	x	4	
LS01	Spanish – Level A2	EC	x	x	4	
LS02	Spanish – Level B1	EC	x	x	4	
LS03	Spanish – Level B1/B2	EC	x	x	4	
LS08	Spanish – Level B2/C1	EC	x	x	4	