FACT SHEET 2020/2021

École Nationale Supérieure

Des Ingénieurs en Arts Chimiques et Technologique

ENSIACET

Toulouse Graduate School of Chemistry, Chemical and process engineering, material, and Industrial Engineering

international.ensiacet@toulouse-inp.fr

Toulouse INP-ENSIACET

International Office

École nationale supérieure des ingénieurs en arts chimiques et technologiques
https://www.ensiacet.fr/fr/index.html

INCOMING EXCHANGE PROGRAMME INP-ENSIACET / FACT SHEET

Toulouse INP-ENSIACET is a graduate engineering school. It is part of the "Institut National Polytechnique de Toulouse" (Toulouse INP university). Located at a crossroads of two major axes

- one linking the Mediterranean Sea with the Atlantic Ocean
- the other linking France to Spain
- Toulouse is the 4th biggest student city in France with over 110 000 students.

International office INP-ENSIACET

Toulouse INP

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Incoming Exchange Students

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Information about the institution

FULL LEGAL NAME OF THE INSTITUTION	INP-ENSIACET
ERASMUS-CODE	F-TOULOUS28
HEAD OF INSTITUTION	LAURENT PRAT

https://www.ensiacet.fr/en/international-1/fact-sheets.html

	Chimie	Génie chimique	Matériaux	Génie des procédés	Génie industriel
1ATC (Semestre 5)	• Projet professionnel (5 ECTS) • Connaissances techniques générales (7 ECTS) • Physico-chimie (6 ECTS) • Analyse des procédés (6 ECTS) • Outils mathématiques et informatiques (4 ECTS)	• Projet professionnel (5 ECTS) • Connaissances techniques générales (7 ECTS) • Physico-chimie (6 ECTS) • Analyse des procédés (6 ECTS) • Outils mathématiques et informatiques (4 ECTS)	• Projet professionnel (5 ECTS) • Connaissances techniques générales (7 ECTS) • Physico-chimie (6 ECTS) • Analyse des procédés (6 ECTS) • Outils mathématiques et informatiques (4 ECTS)	• Projet professionnel (5 ECTS) • Connaissances techniques générales (7 ECTS) • Physico-chimie (6 ECTS) • Analyse des procédés (6 ECTS) • Outils mathématiques et informatiques (4 ECTS)	• Projet professionnel (5 ECTS) • Connaissances techniques générales (7 ECTS) • Physico-chimie (6 ECTS) • Analyse des procédés (6 ECTS) • Outils mathématiques et informatiques (4 E • CTS)
1A2S (Semestre 6)	• Projet professionnel (6 ECTS) • Chimie analytique (13 ECTS) • Réactivité organique (4 ECTS) • Procédés industriels et thermodynamique (3 ECTS) • Liaison chimique, Modélisation, Simulation moléculaire (4 ECTS)	• Science et culture de l'ingénieur (4 ECTS) • Physique pour les procédés (8 ECTS) • Science de la chimie (9 ECTS) • Procédés, opérations unitaires (9 ECTS)	• Science et culture de l'ingénieur (4 ECTS) • Propriétés, lois de comportement, simulation (8 ECTS) • Elaboration et procédés de transformation des matériaux (9 ECTS) • Structure multi-échelle des matériaux (9 ECTS)	• Projet professionnel (6 ECTS) • Outils mathématiques et informatiques (6 ECTS) • Thermodynamique – Chimie-Physique (12 ECTS) • Conception des procédés (8 ECTS)	• Métiers de l'ingénieur (4 ECTS) • Conception des projets (7 ECTS) • Pilotage des systèmes de production (6 ECTS) • Systèmes d'information I (6 ECTS) • Procédés et système industriels (7 ECTS)
2A1S (Semestre 7)	• Métiers de l'ingénieur (6 ECTS) • Chimie inorganique (10ECTS) • Sciences Industrielles (5 ECTS) • Outils et stratégies de synthèse organique (9ECTS)	• Science et culture de l'ingénieur (4 ECTS) • Transferts - Séparations (7 ECTS) • Science de la chimie (12 ECTS) • Procédés : outils numériques (9 ECTS)	• Structure multi-échelle des matériaux (10ECTS) • Propriétés, lois de comportement, simulation (10 ECTS) • Elaboration et procédés de transformation des matériaux (6 ECTS) • Science et culture de l'ingénieur (4 ECTS)	• Anglais, EPS, Stage (3 ECTS) • Outils et stratégie pour la chimie (4 ECTS) • Transfert et équilibre (6 ECTS) • Opérations unitaires (7 ECTS) • Outils mathématiques et numériques (5 ECTS) • Modélisation conduite et supervision (5 ECTS)	• Métiers de l'ingénieur (3 ECTS) • Pilotage des projets (4 ECTS) • Organisation industrielle (11 ECTS) • Systèmes d'information II (4 ECTS) • Procédés et systèmes industriels (8 ECTS)
2A2S (Semestre 8)	• Métiers de l'ingénieur (5 ECTS) • Science des Polymères (5 ECTS) • Réactions et séparation aux interfaces (7 ECTS) • Nouveaux outils pour une chimie durable (7 ECTS) • Synthèse organique (6 ECTS)	• Science et culture de l'ingénieur (3 ECTS) • Science de la chimie (5 ECTS) • Génération et traitement du solide (4 ECTS) • Projet de dimensionnement (6 ECTS) • Procédés : outils de conception (7 ECTS)	• Science et culture de l'ingénieur (5 ECTS) • Propriétés, lois de comportement, simulation (9 ECTS) • Elaboration et procédés de transformation des matériaux (10 ECTS) • Structure multi-échelle des matériaux (6 ECTS)	• Anglais, EPS (2 ECTS) • Contacteurs et transfert (7 ECTS) • Opérations unitaires (6 ECTS) • Conception des procédés (8 ECTS) • Conduite des procédés (7 ECTS)	• Métiers de l'ingénieur (4 ECTS) • Maitrise des projets (7 ECTS) • Chaine Logistique (7 ECTS) • Systèmes d'information III (5 ECTS) • Procédés et système industriels (7 ECTS)

Semestre 9

	Parcours	Acronym	Language	Professor in charge	Main content
Innovative Materials	*Durabilité*	Durabilité		Pr. Christine BLANC Christine.Blanc@ensiacet.fr	Advanced materials. Functionality and durability. From material to structures. Ageing and durability.
	Fonctionnalité	Fonctionnalité		Pr. Brigitte CAUSSAT Brigitte.Caussat@ensiacet.fr	Advanced materials. Functionality and durability. Thin layers and microsystems. Polymer engineering.
Sustainable chemistry & Bioprocesses	*Chimie Verte et Biosourcée*	CVeBio		Dr. Pascale DE CARO Pascale.DeCaro@ensiacet.fr	Tools in Green chemistry and processes. Bioprocesses. Formulation. Bioproducts. Catalysis for alternative energies
	Chimie Fine et Bioprocédés	CFiBio		Dr. Sandra BEAUFORT Sandra.Beaufort@ensiacet.fr	Bioprocesses. Formulation. Activation and optimisation of reactions. Process control. Separation. Tools in Green chemistry and processes.
	Chimie Durable pour l'Environnement	CDEn		Dr. Pierre-Yves PONTALIER PierreYves.Pontalier@ensiacet.fr	Refresher courses. Hydrology. Water treatment engineering. Natural environments. Human-, social-, and regulatory sciences. Optional modules: Risks, Soil mechanics, or Structural engineering.
	Procédés de Production et Qualité des produits de santé	PPQPS		Dr. Mallorie TOURBIN Mallorie.Tourbin@ensiacet.fr	Health industry regulation and quality control. Pharmaceutical production. Process engineering & Pharmaceutical engineering. Analyses and Quality control
Energy & Intensified processes	*Conception et Analyse des Procédés Intensifiés*	CAPRI		Dr. David ROUZINEAU David.Rouzineau@ensiacet.fr	Processes. Computer-aided design. Energy optimisation. Design and intensification of processes.
	Efficacité et Logistique Energétique des Systèmes Industriels	ELENSYS		Dr. Gilles HÉTREUX Gilles.Hetreux@ensiacet.fr	Logistics and energy. Advanced energy integration. Energy optimisation. Energy management.
	Eco-Energie	ECO-E		Pr. Catherine AZZARO-PANTEL Catherine.AzzaroPantel@ensiacet.fr	Systemic design and eco-design. Renewable energies. Hybrid systems, smart-grids, & storage.
	Fluides, Energétique et Procédés	FEP		Dr. Renaud ANSART Renaud.Ansart@ensiacet.fr	Bubbles, drops and particles dynamics. Incompressible turbulent flows. Multi-phase flows. Reactive media & Combustion. Particles flow. Numerical modelling. Energy transformation. Complex fluids.
Industrial Systems Engineering	*Ingénierie des Systèmes Industriels*	ISI		Dr. Nelly OLIVIER-MAGET Nelly.Olivier@ensiacet.fr	Project management. Supply chain. Tools for project mastery. Entrepreneurship and Business engineering.
	Ingénierie et Maîtrise des Systèmes Industriels Complexes	IMSIC		Dr. Jean-Pierre BELAUD JeanPierre.Belaud@ensiacet.fr	Digital factory. Advanced Supply Chain. Entrepreneurship and Business engineering. Complex systems and projects
	Ingénierie du développement durable	I3D		Dr. Vincent GERBAUD Vincent.Gerbaud@ensiacet.fr	Issues related to organisations and economic activities. Ecology and resource flow. Systemic methodologies. Complex systems. Tools for design, evaluation and monitoring. Economy and governance of the sustainability.
Methods and analyses for the management of risk	*Qualité, Sécurité, Environnement*	QSE		Pr. Nadine GABAS Nadine.Gabas@ensiacet.fr	Assessment of occupational risks. Management systems. Clean and safe processes. Prevention of occupational risks. Advanced management systems for QSE..
	Ingénierie Analytique	IA		Dr. Jean-François BLANCO JeanFrancois.Blanco@ensiacet.fr	Assessment of occupational risks. Management systems. Analyses technology. Data analysis and data management. Methodology and Quality assurance.

RESEARCH AT TOULOUSE INP-ENSIACET

The graduate engineering school also serves as a research center with support from the CNRS, INRA and other industrial partners… Research in A7 is both academic, seeking to further knowledge and keen to see application in industry, development and technology transfer.

Four research centers of national and international acclaim are associated with the school and highly involved in the competitiveness clusters and research networks :

- CIRIMAT: Centre Inter-universitaire de Recherche et d'Ingénierie des Matériaux-Innovative Materials Research Center
- LCA : Laboratoire de Chimie Agro-industrielle-Biomass Conversion Research Center
- LCC : Laboratoire de Chimie de Coordination- Catalysis Research Center
- LGC : Laboratoire de Génie Chimique

WHAT IS A MASTER OF SCIENCE?

Masters of Science are degrees accredited either by the French Ministry of Higher Education or by the « Conference des Grandes Ecoles », which conferred this trademark on engineering schools. Master of Science is internationally recognized and may lead to PhD programs or jobs in industrial companies.

The Master of Science is a 2-year full time program. It is usually aimed at undergraduate students who already have a Bachelor degree. The lectures are focused on specific scientific and technical fields.

1. Master Green Chemistry and Processes for Biomass (Green CAP)
2. MSc Industrial and Safety Engineering (ISE)
3. Master Industrial BioTechnology for a Bio-Based Economy (BioTechEco)

Fees : 9000 Euros

ACADEMIC INFORMATION

COURSES

Incoming exchange students are required to register at least for 25 credits per semester.

Important! Students need to think carefully when making the study plan and study the course syllabus and schedule thoroughly. It is compulsory to choose a complete UE (Academic Unit) when choosing the course.

Ensiacet does not have an Add & Drop period after Arrival.

Grading system:

All grades at ENSIACET University are criterion-referenced, i.e. awarded in relation to the student's performance relative to the learning objectives set out in the course syllabus. They do not grade how well the student performs in relation to other students, but how well they fulfils the objectives of the course. ECTS grades are not awarded.

The French grading system is on a scale from 0-20. To pass a subject you usually have to get 10 points. A student is considered to have passed if at the end of each academic year the average of his/her grades is at least 10.

GRADES	DESCRIPTION
Lower than 10	FAILED
8 TO 10	RETAKE
10 TO 12	SUFFICIENT
12 TO 14	GOOD
16 TO 18	EXCELLENT
18 AND ABOVE	CONGRATULATION

Language requirements:

The majority of the courses are taught in French, but some of the specialization curriculums are taught in English.

When selecting the course, you're applying for, you need to pay a special attention to this.

Hereafter is a list of the programs that are taught in English at Toulouse INP-ENSIACET in semester 9:

- Fluids, Energetics and Processes
- Green & Bio-based Chemistry

Exchange students must have a very good french in order to succeed with their academic studies at Ensiacet as all the classes are French.

Engineering courses: French B2 requested

French courses

Available for exchange students. Free of charge with limited number of seats.
Toulouse INP organizes 2 summer schools. The first one is an Engineering summer school and deals with scientific matters, such as biorefineries, life cycle assessment, etc. The second one is a language summer school, and its goal is for participants to reinforce their communication skills in French as well as to help them understand scientific and technical courses and practical work in French.

ACADEMIC CALENDAR

Our academic year runs over two terms – Autumn, Spring – but all teaching and study takes place over two Semesters.

Teaching Semesters

The academic calendar depends on the courses chosen. The dates will be known once the course is chosen.

NOMINATION PROCEDURE FOR PARTNER AND DEADLINES

Partners should formally nominate their students by sending the following details by email (incoming@ensiacet.fr).

Student's Full Name (Forename and Surname**, the surname must be written as your ID**).

- Student's Date of Birth
- Student's Nationality
- Student's Gender
- Student's Email

The deadlines for nominations are as follows:

Semester 1	April 30th
Semester 2	October 30 th

Application deadlines

Semester 1 applications	May 15th
Semester 2 applications	November 15th

APPLICATION DOCUMENTS REQUIRED

Once nominated, you will be asked to uploaded on a specific plateform:

1. A photo
2. Your Identity card or passport copy
3. Transcripts of records
4. Covering letter

VISA

Visa and resident permit are essential if you plan to study in France.

Visa requirement or not

- EU citizens do not need a visa.
- Citizens of some countries, such as Mexico, do not need a visa for a stay of less than 3 months. For longer stays, a visa is required.
- Citizens of some countries need a visa regardless of the duration of their stay.

The official French visa website is https://france-visas.gouv.fr

ACCOMMODATION

Acceptance to exchange studies does not guarantee housing. Students can apply for housing through Ensiacet international office. **Important**: We need your arrival date and departure date as soon as possible in order to book the room	

Living costs

ACCOMODATION IN CROUS RESIDENCE HALLS Housing benefits: www.caf.fr	**300 euros/month** 
PUBLIC TRANSPORT If you want to come via the public transport network, you need to take the subway line B until the Ramonville station. When you get there, take the 79 bus and get off at the INP stop. Moerover, bike lanes come up to the campus from the city center, so you can also ride a bike to the school!	**100 euros for the card and then 10 euros monthly**  
CATERING Located on the campus, the CROUS restaurant offers full meals (starter + main course+ dessert for 3,25 euros). It is open from Monday to Friday at lunchtime. Payments are made with a Izly card - the student card (MUT card). It is possible to recharge all of these cards in the restaurant itself.	**full meals (starter + main course+ dessert for 3,25 euros).** Crous Toulouse Occitanie 
BANK ACCOUNT In France, the registration, insurance and rent payments are made by cheque (sometimes credit card), but not in cash. Therefore, opening a bank account in France is strongly recommended. Citizens from the Euro-zone may not require to open a new account.	
HEALTH INSURANCE If you are registering in higher education for the first time with a foreign nationality: you will need to register with the social security system in France through the website specifically made for students **etudiant-etranger.ameli.fr**. This is totally free yet mandatory and will allow you to benefit from reimbursements for your health expenses The Social Security refunds up to 70% of your healthcare fees. If you want, you can sign up for a healthcare insurance, that will cover the rest.	LMDE LA MUTUELLE DES ÉTUDIANTS Sécurité sociale L'Assurance Maladie