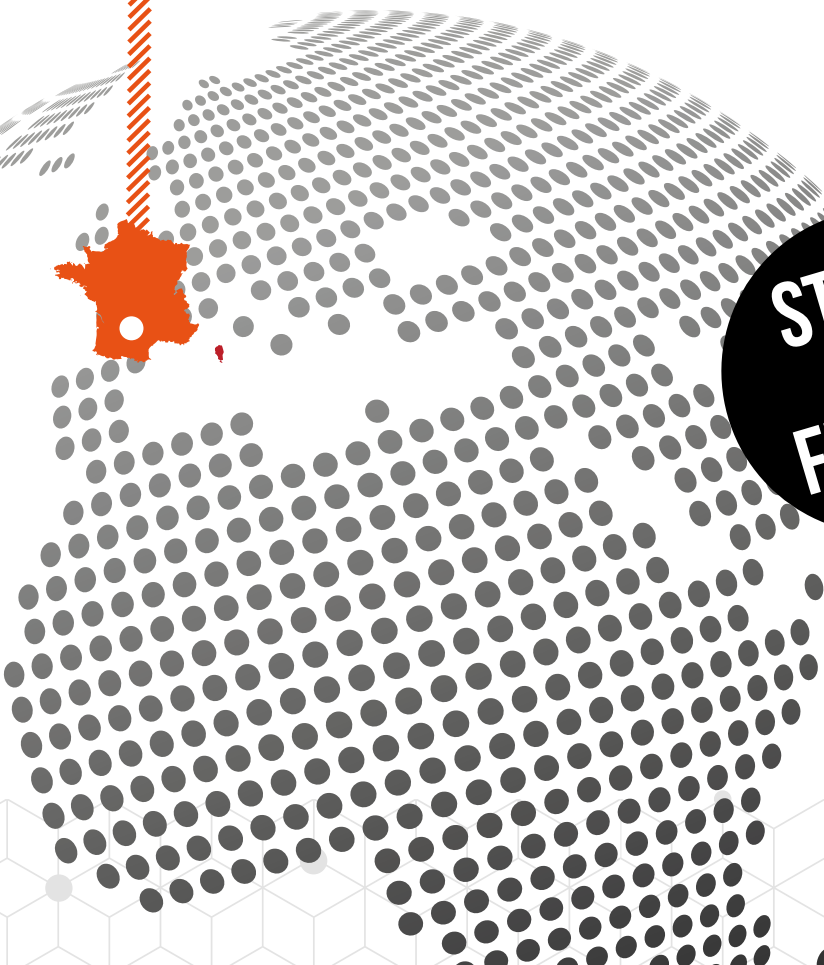




MASTERS OF SCIENCE



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MSc AEROSPACE SYSTEMS NAVIGATION AND TELECOMMUNICATIONS / AS-NAT

(BY ENAC) 

Presentation

Aerospace Systems have gained much worldwide attention due to a significant increase in applications using GPS for positioning and navigation. This international enthusiasm is confirmed by the worldwide development of other global and regional satellite-based navigation systems.

Objectives

Global Navigation Satellite System, defines a satellite-based system that allows autonomous positioning and navigation for a suitably equipped user in all locations and at all times. The MSc AS-NAT offers an advanced education in Satellite-based Positioning and Space Telecommunications. It aims to train students with a focus on research and development for the steadily growing GNSS industry.



MSc AEROSPACE - INTERNATIONAL AIR TRANSPORT OPERATIONS MANAGEMENT

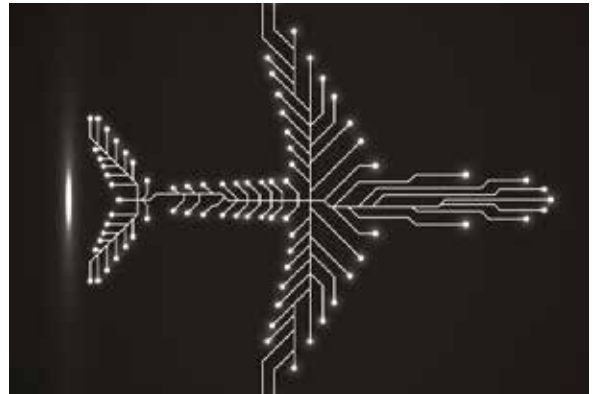
IATOM (BY ENAC) 

Presentation

The MSc in IATOM has been designed to emphasise the application of up-to-date engineering and management concepts or methods of the aeronautical and aviation industry.

Objectives

It provides graduates with in-depth knowledge in aeronautical engineering, airlines operations, aeronautical project management and technology management, to be able to meet the aeronautical industry demands in terms of the innovative engineers they need to strengthen and develop their business.



MSc ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATION / ESECA

(BY INP-ENSEEIH & INSA) 

Presentation

The Master of Science ESECA is designed for students and young scientists interested in pursuing a career in research, development & innovation in the field of Embedded Electronic Systems, Antenna & RF systems, Signal & Image processing, Power and Energy-Efficient autonomous systems.

Objectives

The master ESECA offers a unique broad range of knowledge and expertise in electronic embedded systems design specifically tailored for the aeronautics domain. Master students graduate with extensive competences in embedded analog/digital electronic systems, RF and signal processing for embedded communicating systems. The curriculum embodies elements of power management for autonomous embedded systems and image processing, thus covering the aeronautics industry as well as the latest innovative and state of the art research.



MSc INTERNATIONAL AIR TRANSPORT SYSTEM ENGINEERING AND DESIGN / IATSED

(BY ENAC) 

Presentation

The MSc IATSED aims at preparing scientific and technical managers or researchers able to develop future and innovative Air Transport complex systems with a global approach. In addition to advanced software design and programming skills, the Master covers three main domains with an interdisciplinary approach:

- 1- System Engineering
- 2- Air Transportation
- 3- Information technology (in particular interactive programming and safe programming).

Objectives

Most of the curriculum will involve transversal and applied projects to enable students to develop a multidisciplinary expertise required by industry. Furthermore, based on interdisciplinary engineering approach, the MSc IATSED makes sure graduates will be familiarized with international engineering concepts by direct application of international INCOSE standards.

AGRICULTURE & FOOD SCIENCE



MSc AGROFOOD CHAIN (BY INP-ENSAT)

In partnership with ENSFEA

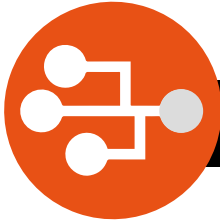
Presentation

The course trains international students to develop knowledge and know-how, related to the development of sustainable agro food chains in the context of economic, demographic, food and ecological transitions. Multi-disciplinary and interdisciplinary approaches are the basis of this program around three pillars: Agronomy, Agricultural economics and Ecology. Several related disciplines, (applied mathematics, breeding, food and nutrition science, consumer behavior, molecular tools), provide adequate knowledge to develop a broad vision of the supply chains involved in the "From Farm to Fork" concept. Students understand complex agro food systems using multidisciplinary and multi criteria analysis, integrating problem solving, research and project management through different case study analysis. On completion of the program, students are able to extend their knowledge and skills to the international context.

Objectives

To develop technical, managerial and operation skills needed in the analysis of agricultural and food production complex systems. To identify innovative needs and design solutions (technical, organizational and institutional) to elaborate projects needed to improve the major agricultural commodity chains for sustainability in matter of food production systems. To diagnose problems related to agricultural production, food transformation and the organization of value chains. To work in a team to elaborate and manage research and development projects. To understand the functioning of agrofood chains as complex systems. To diagnose problems related to agricultural production, food transformation and the organization of value chains. To design innovative and sustainable solutions.





ELECTRICAL ENGINEERING

MSc ELECTRICAL ENERGY SYSTEMS* / EES (BY INP-ENSEEIH)

Presentation

Knowledge of energy production, its storage, conversion, transportation and consumption. Knowledge of power electronics, electrodynamic and mechatronics, new technologies of energy, energy system control, diagnostic and effectiveness management.

Objectives

To design power electronic systems. To design electromechanical converters. To design energy management for electrical systems (multi-sources and multi-loads). To develop control and diagnostic strategies (sensorless and wireless) for smart actuators, smart grids, and smart independent systems.



INDUSTRIAL ENGINEERING



MSc INDUSTRIAL & SAFETY ENGINEERING* / ISE (BY INP-ENSIACET & INSA)

Presentation

The aim of the MSc ISE is to train specialists capable of designing and developing new products, constantly integrating cost, delay, compliance and safety constraints into this process.

Objectives

At the end of the degree, the student will be able to manage the quality and the risks of technological systems (products and facilities) relating to their specification, their design, their implementation, their manufacturing and their operation, and to provide insurance of the actual quality and risk control in a legal, economic and social environment.



MSc MANAGEMENT OF INTERNATIONAL LEAN AND SUPPLY CHAIN PROJECTS / MILES & SCALE

(BY IMT MINES ALBI) 

Presentation

MILES 4-semester program has been designed by IMT Mines Albi in partnership with Toulouse Business School around three disciplines: supply chain management, lean management and project management. It adopts a professional approach by incorporating four international professional certificates. Master MILES' intake is every month of January. For students holding a 4-year bachelor degree or a 3-year degree plus 3 years of professional experience, this program is also available in 3 semesters, delivering the MSc SCALE, accredited by the "Conférence des Grandes Ecoles" (intake in September).

Objectives

Master MILES and SCALE aim at providing a competitive edge to students and young professionals willing to rapidly take up management positions in the fields of supply chain, operations, lean and project management, in a global, multicultural and constantly evolving business environment.

MSc FLUIDS ENGINEERING FOR INDUSTRIAL PROCESSES

(BY INP-ENSEEIH, INP-ENSIACET & INSA) 

Presentation

Multiphase flows are of major importance for modelling the behaviour of industrial processes. Advanced courses on turbulence, coupling chemical reactions and flows, heat and mass transfer are complemented by exercises and practical training. The students will be trained to work with Computational Fluid Dynamics tools.

Objectives

The holder of this master degree is able to develop a research or engineering program by integrating the various scientific and technologic constraints related to fluids engineering and industrial applications. Build a scientific pathway including modeling and simulation to answer a question or a need.



MSc GREEN CHEMISTRY AND PROCESSES FOR BIOMASS / GREEN CAP (BY INP-ENSIACET & INSA)

Presentation

By combining the different disciplines Green chemistry, Catalysis, (Bio) Processes, and Formulation, this master aims at providing with the essential tools to develop clean and safe processes involved in the new emerging fields of bioeconomy.

Objectives

Develop or improve synthesis route towards bioproducts. Master alternative methods in green chemistry. Design and pilot ecofriendly (bio) processes. Master the main transformations of renewable resources with a biorefinery approach. Assess and take into account the environmental impacts.

MSc WATER ENGINEERING AND WATER MANAGEMENT * (BY INP-ENSEEIH & INSA)

Presentation

This master program aims at combining skills and knowledge in chemical engineering, hydrology and hydrogeology. The multidisciplinary aspects are highlighted in order to prepare our master students to face the challenges of water use in the coming decades.

Objectives

The holder of this master degree is able to develop integrated solutions related to water treatment or water use both in rural or urban environments. Using classical but also simplified modelling approaches, they are able to answer to scientific and technical questions related to water use.

WELCOME DESK

The new hub for all French and foreign students and researchers invited to the University of Toulouse.

You will find :

- Help to obtain administration authorization to study in France
- Help to settle
- Help to look for accommodation
- Facilities to move in the city
- Cultural and sports activities offers

en.univ-toulouse.fr/welcome-desk



The essential set to ease your installation in Toulouse !

Settling down in a new city to study or complete a research program is an extremely enriching experience that can also be stressful and complicated when we don't have a single clue about the area, the mandatory formalities, the habits or the customs.

In order to ease your arrival and make your installation stress free, the University of Toulouse provides you with a personalized reception service, very complete and specifically created to allow you to easily get acquainted with your new environment and anticipate your steps at the very most.

Several packages available for international students and researchers: a welcome pack, a housing pack, a language courses pack, an airport / train station pack.

A complete set of tools for the students and researchers who are looking to easily settle in Toulouse !

TOULOUSE TECH IT EASY

The portal Toulouse Tech it easy is dedicated to international students and offers information to help them with their projects.

Students can create an account on the portal and apply online for one or more programmes of their choice.

toulousetech.eu



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