

ensiza

École nationale supérieure
d'ingénieurs sud Alsace



English
version



 UNIVERSITÉ
HAUTE-ALSACE

GRUPE
INSA
PARTENAIRE

10 REASONS TO CHOOSE ENSISA

- Comprehensive school of engineering
- High quality education
- Work experience and career advice
- Investment in teaching
- Personalized support
- Successful research
- Friendly environment
- Part of a repute University
- High level equipment
- Located in a dynamic, serene and peaceful region

ENSISA IN FIGURES

- Creation in 2006 (merger of ENSITM created in 1861 and ESSAIM established in 1990)
- 18,200 m² on 2 buildings
- 130 graduates per year
- 60 faculty members
- 40 administrative and technical staff
- 2 research laboratories

FACILITIES

- Pilot workshop - Machining centers
- Laboratories and measuring tools
- Practical training rooms
- Multimedia rooms - Multimedia resource center

WELCOME TO ENSISA!

For over 150 years, engineers have been trained at ENSISA. With state-of-the-art facilities in terms of Wi-Fi enabled campus, amphitheater - type classrooms with all modern audio-visual equipment, a rich library, well equipped labs, gymnasium, indoor and outdoor sports facilities, etc. ENSISA is all set to become one of the most sought-after engineering and technology *Grandes Écoles* in the country.

The French *Grandes Écoles*, the French leading institutions for educating engineers, deliver graduate degrees entitled *diplôme d'ingénieur*. This *diplôme d'ingénieur* recognized as a Masters degree by the international Bologna process, has been accredited by the *Commission des Titres d'Ingénieur* since 1934.

The French *ingénieur* that graduates from a *Grande École* plays an essential role in research, development and implementation of innovative technologies. The international scientific community is fond of engineers who are recognized in their fields of competencies.

ENSISA is in the French engineering schools rankings, which are driven by recognized bodies at the national level. It is distinguished for the quality of its research and the diversity of the student recruitment. **In the 2014 most innovative schools ranking, ENSISA is 24th in terms of patents granted.** At the international level, the University is classified in the Shanghai ranking.

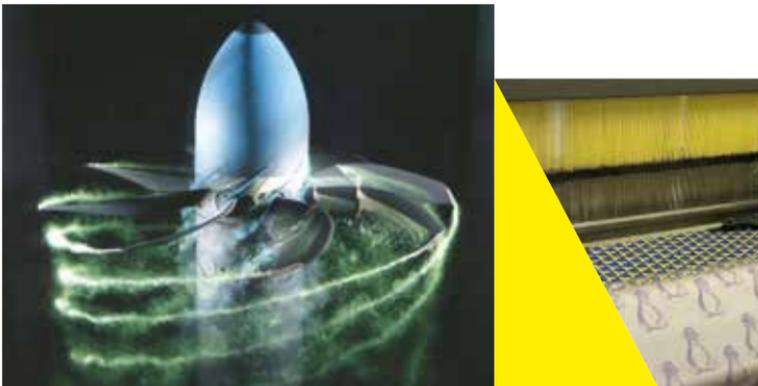
ENSISA initially focuses on the engineering of fibers and textile materials and now covers five specialties:

- ▲ Mechanical engineering
- ▲ Electrical and control engineering
- ▲ Textile and fibers
- ▲ Computer science and software engineering
- ▲ Production systems
(only for French students through apprenticeship).

The faculty staff of ENSISA are quality and research oriented. They provide higher education, research and technology transfer. Besides offering the highest quality of technical inputs, our college of Engineering has taken initiatives that enable our students to gain a global exposure and engineering approach. Furthermore, ENSISA is actively involved in the generation of new knowledge and has significant international recognition.

With a network of more than 2,600 active graduates (7,000 graduates since 1861) ENSISA constantly initiates new links with industrial and institutional partners.

ENSISA has always emphasized the diversity of students and faculties as this international melting pot brings together talents from all around the world. Since its creation, our college of Engineering has been developing curriculums and programs to encourage international students to study within ENSISA. No fewer than 5 programs are opened to international students.

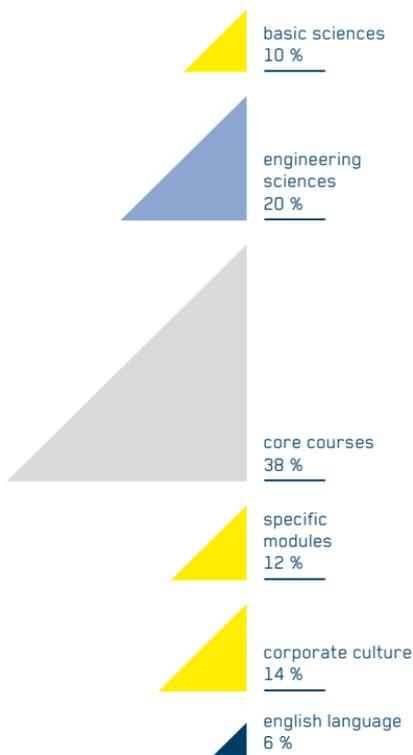


ENSISA ENGINEERING PROGRAM

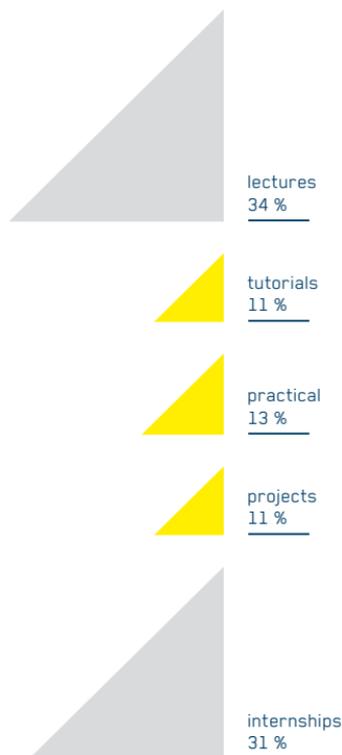
The engineering training at ENSISA is based on theoretical, tutorial and practical lectures specific to each specialty. Projects and internships, as well as an introduction to corporate culture complete the curriculum. The ENSISA engineer, operational and characterized by broad competencies, meets the needs of business and is adapted to technological and economic changes.

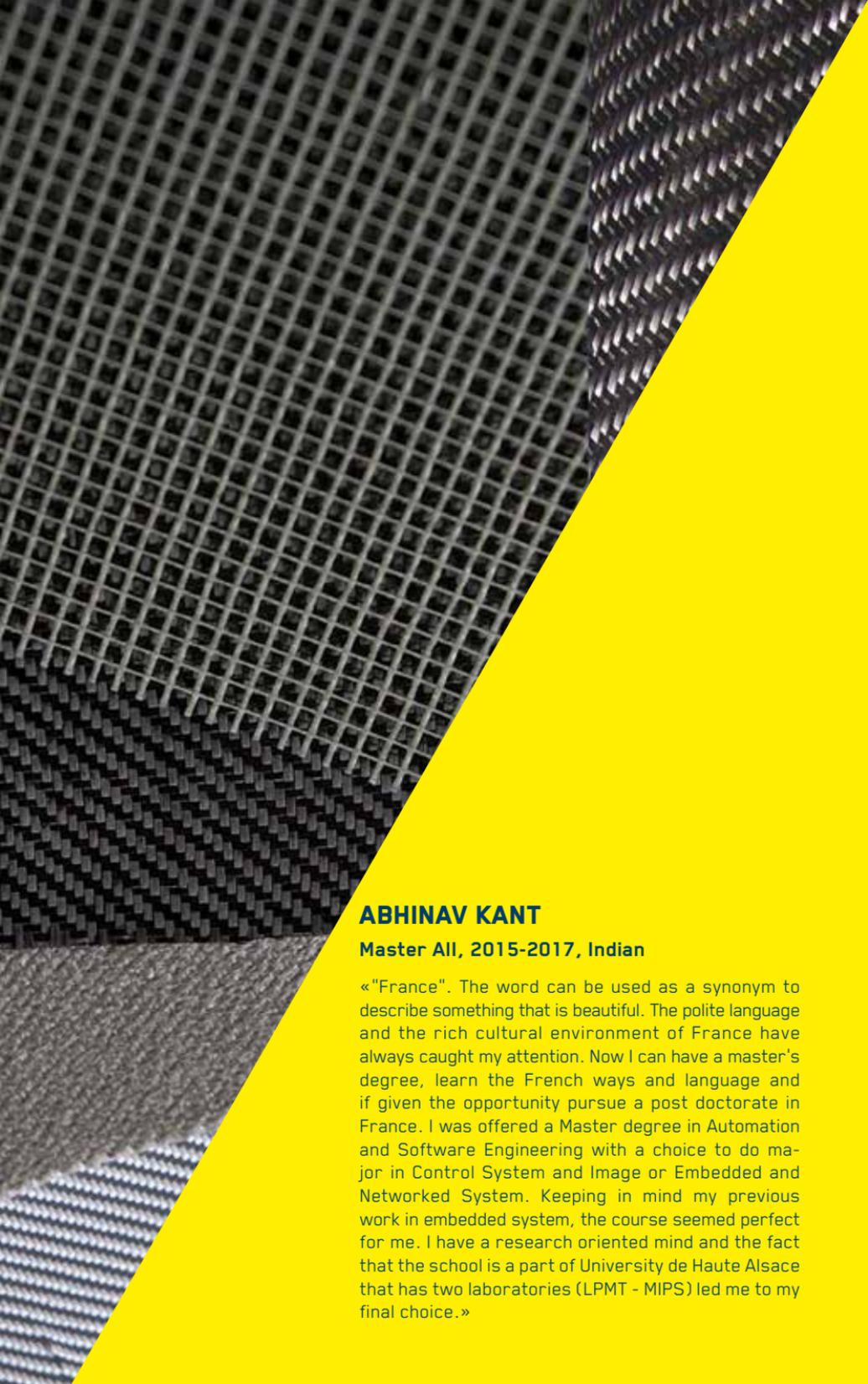
ENSISA trains engineers in a 3 year program (final year of B. tech and 2 years of Master): approx. 2,000 hours in 5 academic semesters. At least 30 weeks of internship (in industry or research laboratories). 1 guided project per year. The following 4 specialities are open to international students: mechanical engineering, electrical and control engineering, textile and fibers, computer science and software engineering.

Subjects



Types





ABHINAV KANT

Master All, 2015-2017, Indian

«"France". The word can be used as a synonym to describe something that is beautiful. The polite language and the rich cultural environment of France have always caught my attention. Now I can have a master's degree, learn the French ways and language and if given the opportunity pursue a post doctorate in France. I was offered a Master degree in Automation and Software Engineering with a choice to do major in Control System and Image or Embedded and Networked System. Keeping in mind my previous work in embedded system, the course seemed perfect for me. I have a research oriented mind and the fact that the school is a part of University de Haute Alsace that has two laboratories (LPMT - MIPS) led me to my final choice.»

TEXTILE AND FIBERS

**DEVELOP AND DESIGN
THE FIBROUS MATERIALS
OF TOMORROW**

COURSE

Training is based on the acquisition of the scientific basis and specific knowledge in engineering fibers: characterization of the fibrous material, control of manufacturing processes and treatments, with consideration in eco-design criteria. Individual and team projects, in conjunction with industry or research punctuate training. General education including language and culture complement the curriculum.

OPPORTUNITIES

The range of trades and industries is extremely wide. It ranges from quality control for ready to wear luxury or mass distribution, to research and development for aerospace or medical fields and the production of textiles using complex technologies for clothing or technical applications (sports, transport, protection of persons).



FAHMI MUHAMAD MANSOR

Automatic and systems, 2012-2014, Malaysian

«The two years in the automatic and systems specialty were the most fascinating, academically challenging and also the most enjoyable years of my life. The degree covered a wide range of signal and control theory courses. In addition to a solid knowledge of control, I also improved my communication skills and presentation in French, allowing me to effectively communicate complex scientific projects. The teachers' enthusiasm for their fields provided an appropriate learning environment and opportunities to learn more and develop the skills were always available.»



ELECTRICAL AND CONTROL ENGINEERING

DESIGN OF CONTROL SYSTEMS, SIGNAL AND IMAGE PROCESSING

COURSE

It includes general training and specialty teaching modules (optimization and control of dynamic systems, instrumentation, signal processing, etc.), projects and internships, as well as management training and project management.

OPPORTUNITIES

Careers lead to control of industrial systems with expertise in instrumentation, signal and images processing. Engineering graduates are active mainly in R&D, in a large number of business sectors (transport, industrial equipment, manufacturing, etc.).



UMANG GUPTA

Computer and networks 2015-2016, Indian

«Before joining its Master's program, I came to ENSISA for a two month internship as part of collaboration between ENSISA and my institute in India. During these two months, I made my mind of pursuing my higher education from ENSISA. Coming from a non-French speaking background, initially I was a little afraid of how I'll manage my courses (given in French at ENSISA). However, the support and training of French language given to me prior to and with my regular courses made not only the courses easy, but also helped me in my day-to-day life in France. If you're coming to ENSISA as an international student, you're guaranteed to receive all the help and support to integrate in the environment, apart from the first class education.»



COMPUTER SCIENCE AND SOFTWARE ENGINEERING

IMPLEMENT
THE WEB WORLD

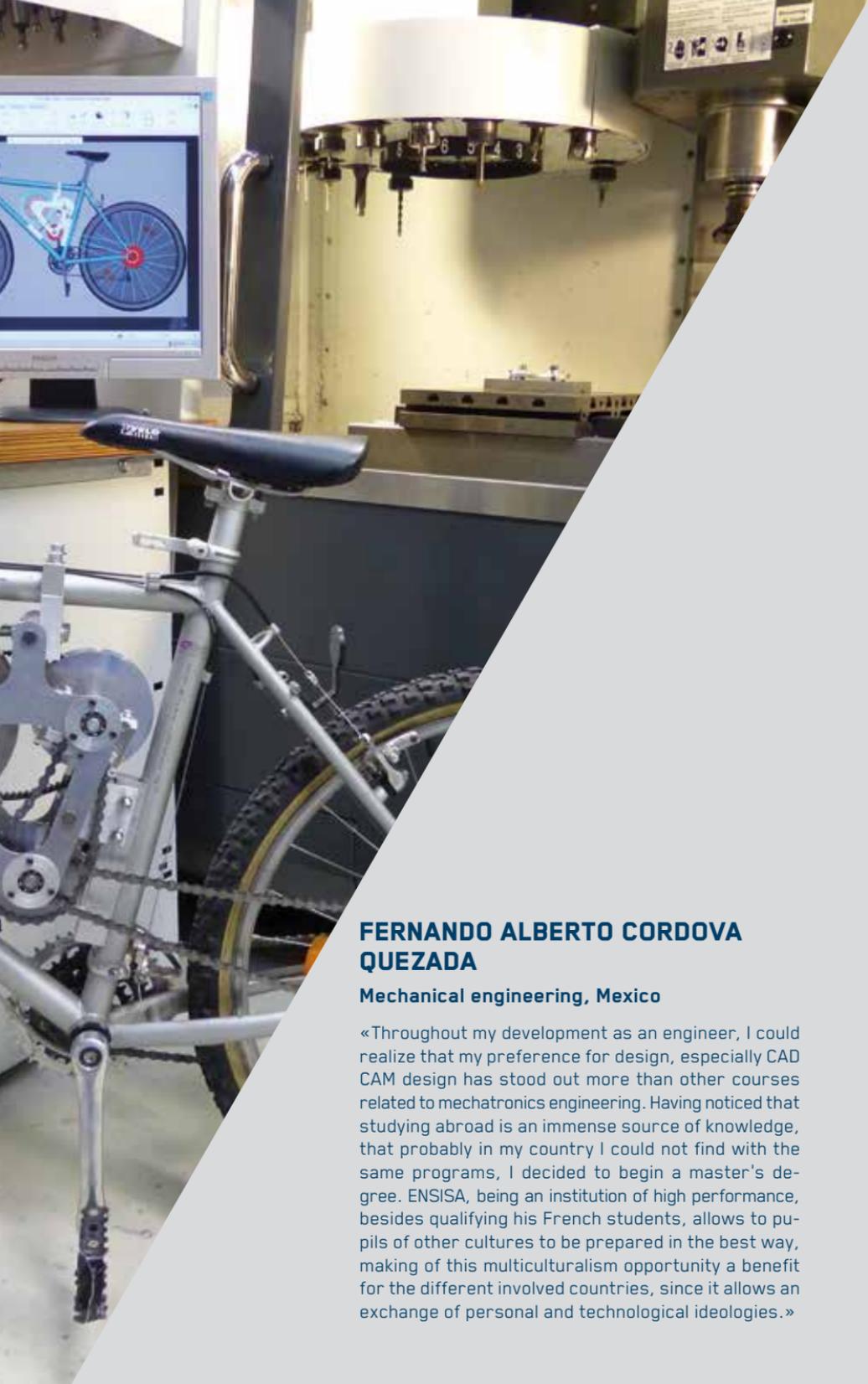
COURSE

Premium scientific training, focus on software engineering, architecture and modelling, as well as specialization modules allow future engineers to address the business of engineering complex software systems, networks and Internet applications (cloud) or mobile systems. Management training as well as projects and internships prepare for the function of coaching and empowerment.

OPPORTUNITIES

The computer engineer deals with software engineering functions, software architect, information system manager/project manager. Business areas are various: computer engineering services companies, software companies, telecommunications companies, operators and content providers, banking and insurance, retail, e-business, utilities, local governments and administrations, health, entertainment , engineering and technical studies in other industries.





FERNANDO ALBERTO CORDOVA QUEZADA

Mechanical engineering, Mexico

«Throughout my development as an engineer, I could realize that my preference for design, especially CAD CAM design has stood out more than other courses related to mechatronics engineering. Having noticed that studying abroad is an immense source of knowledge, that probably in my country I could not find with the same programs, I decided to begin a master's degree. ENSISA, being an institution of high performance, besides qualifying his French students, allows to pupils of other cultures to be prepared in the best way, making of this multiculturalism opportunity a benefit for the different involved countries, since it allows an exchange of personal and technological ideologies.»

MECHANICAL ENGINEERING

DESIGN AND MANUFACTURE OF INNOVATIVE MECHANICAL SYSTEMS

COURSE

It revolves around general training and acquisition of specific knowledge in mechanical engineering: design, CAD/CAM, manufacturing processes, materials, design, metrology, production management. Projects and internships on industrial or research topics, as well as management training, language and project management complement the curriculum.

OPPORTUNITIES

The ENSISA engineer in mechanical engineering can work in any industry as a mechanical engineer or project manager in R&D, study/design products or systems, methods (development process), production, metrology/quality.



MASTER PROGRAMS

A Master Degree requires 2 years of studies including a 6 month internship after a bachelor-level qualification. The master programs prepare students either for PhD projects, leading to careers in research, or for direct placement in high level positions within industry.

ENSISA manages 2 Master programs of the University in 2 fields and 4 specializations, with the possibility to directly enter the program or define a mixed curriculum with the student's home institution.

MASTER DEGREE IN EMBEDDED SYSTEMS CONTROL, WITH A SPECIALIZATION IN CONTROL, SIGNAL AND IMAGE OR IN EMBEDDED AND NETWORKED SYSTEMS

This curriculum, backed by the research laboratory MIPS, proposes the integration of IT, electrical and control engineering and networks, 3 disciplines that converge highly in the industrial field.

The training proposes to deepen the concepts, models, tools and techniques as well as methodology for the design and development of intelligent networks.

MASTER DEGREE IN MECHANICS, WITH A SPECIALIZATION IN MECHANICAL ENGINEERING OR IN MECHANICS AND FIBER SCIENCE

The objective of the curriculum is to train professionals capable of understanding the mechanical object as a whole for efficient and rapid implementation. The training offers a deepening of engineering knowledge and particularly of the aspects of the mechanics of flexible and fibrous materials. It covers the areas of fiber science and of materials advanced mechanics.

DOCTORAL PROGRAM

ENSISA offers access to doctoral studies together with the University in fields covered by its 2 research laboratories (MIPS and LPMT).

Students in possession of a national Master degree or any other foreign degree equivalent to Master degree can apply.

Candidates are selected after scientific and technical evaluations conducted by the PhD supervisor in the form of an interview.

ENSISA MS PROGRAM

The MS (Mastère spécialisé) is a postgraduate Degree accredited by the French *Conférence des Grandes écoles*. This is a one year professional curriculum including internship and lectures, and which corresponds to 75 ECTS credits.

ENSISA offers a MS in Textile Engineering focused on innovation and for engineers, managers and higher education graduates.

Innovating and creating value are the essence of engineering itself. The textile engineering is interested in this context to the optimization of the material/shape couple, including in particular environmental responsibility and search for advanced technical materials since the design. Sensory factors and organizational flexibility are also taken into account. The MS in textile engineering revolves around core courses and two specializations: Apparel and Clothing or Technical and functional textiles.

ENSISA INTERNATIONAL PROGRAM IN TECHNOLOGY (IPT)

ENSISA offers to international students a full semester of technological courses 100% in English in 3 majors: Mechanical Engineering, Textile and Fibers Engineering and/or Electrical and control engineering.

This program runs each year during the Fall semester period (September to January).

Applicants have the possibility to create their own curriculum according to their background, skills and topics of interest.

30 ECTS credits have to be selected among the offered academic subjects in the 3 majors. Students of this program take part to projects strongly linked to ENSISA research activities.

Over the whole semester, students also attend to invited lectures and conferences on technical and scientific topics.

ADMISSION

Program	Curriculum	Application conditions	Tuition fees	Benefits
ENSISA engineering program	Textile and fibers engineering	N+I Erasmus FITEC	3000€ (M1/M2) 0 ¹ 0 ²	Master degree ECTS credit transfer ECTS credit transfer
	Mechanical engineering	N+I ³ Erasmus FITEC	3000€ (M1/M2) 0 ¹ 0 ²	Master degree ECTS credit transfer ECTS credit transfer
	Computer science and software engineering	N+I ³ Erasmus FITEC	3000€ (M1/M2) 0 ¹ 0 ²	Master degree ECTS credit transfer ECTS credit transfer
	Electrical and control engineering	N+I ³ Erasmus FITEC	3000€ (M1/M2) 0 ¹ 0 ²	Master degree ECTS credit transfer ECTS credit transfer
Master programs	Embedded systems control	N+I ³ Erasmus Joint Master Program ⁴	2800€ (M1/M2) 0 ¹ 4000€ (M2)	Master degree ECTS credit transfer Master degree
	Mechanical engineering	N+I ³ Erasmus	2800€ (M1/M2) 0 ¹	Master degree ECTS credit transfer
Doctoral program		Direct admission ⁵	Approx. 700€	PhD
ENSISA MS Program	Textile engineering	Direct admission ⁶	5000€	Ms degree
ENSISA IPT	Mechanical, Textile and fibers, Automatic and systems engineering	Erasmus Partner universities Direct admission	0 0 5000€	ECTS credit transfer

1 - For European partner universities only.

2 - Only for students from ENSISA FITEC partners.

3 - www.nplusi.com

4 - Students from partner universities perform the M1 in their home university and M2 in ENSISA.

5 - Students with a Master degree.

6 - Master degree or equivalent, or B. Tech with professional experience.

RESEARCH AND INNOVATION

Application-oriented research, innovation and technology transfer, the research laboratories are strongly linked to training activities. Research at ENSISA fits into the regional and national innovation strategies. It involves 2 laboratories.

LABORATORY OF PHYSICS AND MECHANICS TEXTILES (LPMT)

The thread of LPMT is the study of fibrous materials for different purposes, at different levels of scale: fibers, fabrics, knitted fabrics, nonwovens or complex structures comprising fibers or assemblies' fibers. The theme of composites materials and polymer coatings complements this scope.

www.lpmt.uha.fr

MODELING INTELLIGENCE PROCESS SYSTEMS LABORATORY (MIPS)

The MIPS Laboratory is an interdisciplinary research laboratory hosted by the University. The main research area is *Structures and Intelligent Machines* and brings together all the research related to the domains of Computer Engineering, Information and Communications Technologies (ICT) sector.

www.mips.uha.fr

Focus

+ 30 patents issued since 2008

4 startups since 2010

3 clusters

58 scientific publications in peer-reviewed journals in 2014



AROUND ENSISA

ENSISA is part of a high quality regional environment. Located on the campus of the University of Haute Alsace, both ENSISA buildings enjoy a green setting. The proximity to the city center of Mulhouse is an asset. At the regional level the Alsace Tech network creates a synergy between Engineering schools through multiple joint actions. ENSISA enjoys all the services of the University of Haute Alsace: dormitories, and canteens, libraries and multimedia center, internet café, language centers, preventive medicine, sports, culture.

MULHOUSE AND ITS REGION

With a beautiful historic heritage, numerous sports and cultural facilities, Mulhouse offers attractive living. The city is famous for its museums, especially the *Cité de l'automobile* and the *Musée français du chemin de fer* respectively the largest automobile and railway museums in Europe. New industries are established in the territory: manufacturing, telecommunications, industry services.

Close to the Swiss and German borders, Mulhouse is a city in eastern France, and in fact the heart of the tri-national Upper Rhine region (France, Switzerland and Germany).

Mulhouse is served by the EuroAirport Basel-Mulhouse-Freiburg, located 25 km (16 mi) south of the town. The railway station is well connected with the rest of France and Europe by train. Transport within Mulhouse comprises a network of buses together with the city's tram network.

THE ALSACE TECH NETWORK

Alsace Tech brings together 14 engineering, architecture and management schools based in Alsace Region. The network has 8350 students from 50 engineering education specialties, architecture and management, master and doctoral levels. Schools have chosen to partner to present one voice for their training and implement joint projects. www.alsacetech.org

THE ALUMNI ASSOCIATION OF ENSISA (AAE)

The Alumni network the AAE of ENSISA mission is to ensure support for graduate employment. Its leadership role helps to strengthen the links between its members and to develop strong relationships with students and school staff.

www.anciens-ensisa.org

STUDENTS UNION

ENSISA offers wide scope for extra-curricular activities for the students. Such activities not only make the campus life vibrant but also act as a window to reach out to the students across the country. The students union (*Bureau des élèves BDE*) is the association managed by students to organize life after school. Its members are involved throughout the year to organize and carry out projects.

Sports, major events, as well as technology, art and culture or humanitarian activities and hobbies are all strongly supported within the union.

JUNIOR IARISS

Located within the school, the Junior Company is dedicated to student entrepreneurship. It allows students to apply their theoretical knowledge through studies and projects for various clients on the model of consulting firms.



KEY FACTS

STUDENTS ACHIEVEMENTS

3 ENSISA students awarded (First prize of The 2015 Alsace Tech innovation competition)

The European Joint Research Center entrusts a mission to the Lariss team

Two 2nd year Students in Mechanics model a rim of a Farman NF2 of the Mulhouse Motor Museum

FACULTIES' ACHIEVEMENTS

Organization of the Workshop COST Action in ENSISA

60 scientific publications in 2014

Ph.D student winner of the Théophile Legrand Award 2015 (in the field of textile)

2015 Best Papers Awards: from the Artificial Intelligence in Medicine Conference, Pavie, Italy; from the Algerian Network for Academics, Scientists and Researchers.

GUEST LECTURE SERIES

ENSISA organizes Distinguished Guest Lecture Series wherein eminent persons are invited to speak on the topics of contemporary interest. The lecture series immensely benefits the students and faculty and is found useful by the invitees as well. The University organizes lectures in each semester under this series.

SUMMITS AND WORKSHOPS

ENSISA regularly organizes various summits on functional areas of various fields of engineering addressed by academics, industry experts and enlightened government officials.

PLACEMENTS

The average lead-time for the first job is one month after graduation.

Graduated from a scientific and technical training, the ENSISA Engineer carries out its missions in all business sectors related to his or her core curriculum, within small or large industrial groups businesses and in very diverse functions.

Early career salaries are around the French national average.

ESSENTIALS

Exchange procedure	<ol style="list-style-type: none"> 1. Official nomination from home institution 2. Application (online or printed file) 3. Submission of required documents to ENSISA/UHA 4. Certificate of admission
Required documents	<p>Depends on programs Contact: international.ensisa@uha.fr</p>
Semester periods	<p>Fall: September to February Spring: March to June</p>
Application deadline	<p>Depends on programs Contact: international.ensisa@uha.fr</p>
Housing	<p>International students may stay in the student residence (dormitory) close to ENSISA, depending on availability. The International Office of the University offers help to find an accommodation (all the information is given to you once you've been nominated by your own institution). Contact: international.ensisa@uha.fr www.uha.fr/vie-des-campus</p>
Visa issuance	<p>For non-European international students staying more than 3 months on French territory, a Long Stay Visa worth Stay title will be issued. Within 3 months following your arrival in France, you must be processed by the French Office for Immigration and Integration (OFII).</p>
Insurance Medical insurance	<p>International students must be insured before coming to ENSISA. Students without medical insurance, can apply for French Student health insurance.</p>

FAQ

When do the semesters start ?

Fall semester: September. Spring semester: February

Can a student choose to stay either 1 or 2 semesters?

If only 1 semester, can they choose which semester to stay?

It depends on the agreement between the two institutions.

That should be organized with the coordinator of home institution.

Are there any breaks during the academic year?

There are seasonal vacations: Fall (1 week), Christmas (2 weeks), Winter (1 week), Spring (2 weeks)

What housing options are available for international students?

And what about the cost?

Students residencies are available nearby the campus, depending on availability. The social service of the University will help.

It is also possible to rent a room or a studio in town.

Does ENSISA offer a meal plan for students?

There are student restaurants and cafeterias on the campus.

(About 3 euros per meal at the student restaurant)

Does ENSISA offer French classes for international students?

A special dedicated program runs for international students during all the academic year.

What is the expected budget for living in Mulhouse ?

Accommodation: 200-400 €/month - Food and meals:

150 €-180/month - Health insurance: 20 €/month - Local

transportation: 50 €/month - Total per month: 500-700 €/month

Are there nearby areas that students might find interesting?

Many national museums in Mulhouse, Switzerland and Germany are very close. Strasbourg is less than one hour by train. Black Forest and Vosges Mountains are also very close (hiking, skiing...)

What is the climate and weather in Mulhouse throughout the year?

We have 4 distinct seasons. Winter can be cold (minus 10°C)

and summer can be very hot (40°C).

How to follow ENSISA activities through the social networks?

 facebook.com/ensisa.uha

 twitter.com/@ENSISA_Mulhouse



CONTACT

ENSISA

12 rue des Frères Lumière
68093 Mulhouse Cedex

Tél. + 33 (0)3 89 33 69 00

Fax + 33 (0)3 89 42 32 82

international.ensisa@uha.fr

www.ensisa.fr



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