



CENTRALELYON  
**ENISE**



# **NATIONAL ENGINEERING SCHOOL OF SAINT-ETIENNE**

## **FACT SHEET FOR INTERNATIONAL STUDENTS 2021 - 2022**

### **Brief overview of ENISE**

École Nationale d'Ingénieurs de Saint-Étienne (National Engineering School of Saint-Etienne) is one of the most selective technological higher education institution in France, internal school of Centrale Lyon et member of the University of Lyon. Its strategic ambition is to be a specialized engineering school, a player in industrial, societal and environmental changes in its three areas of excellence, which are Manufacturing, Sustainable Housing and Sensory. ENISE supports the changes of its territories by relying on its partnership research and innovation activities.

The ENISE curricula offers a solid technological/scientific expertise in Mechanical/Industrial, Civil, and Sensory Engineering.

Strong links with the industrial network and a considerable innovation component enable ENISE to graduate engineers with an entrepreneurial mindset and enhanced employability.

### **ENISE in a few numbers**

- 1000 students
- Staff/students ratio: 1/10
- Over 300 industrial national and international partners
- 15 000 m<sup>2</sup> Technology platform (research and teaching)
- 31 clubs and associations
- 13,6 % of international students: 17 nationalities

## Our Majors

### MECHANICAL / INDUSTRIAL ENGINEERING

- Additive manufacturing
- High speed machining and surface functionalization
- Numerical simulation of industrial mechanical and thermal processes

### CIVIL ENGINEERING

- Soil mechanics and treatment
- Composite materials for rehabilitation
- Phase change concrete, armed concrete, fibered concrete, metal structures, wood and timber structures

### SENSORY ENGINEERING

- Virtual reality
- Sensory oriented manufacturing
- Sensors and automation

**In all the three Majors, ENISE offers courses fully taught in ENGLISH. Named "International Semester", they are available for the Fall Semester and award 30 ECTS. If you choose a full year study or come for the Spring Semester only, a laboratory research project mentored by a faculty member may award you with 30 ECTS as well (see the APPENDIX).**

## Research in ENISE

Laboratory "Tribology and Systems Dynamics" LTDS/UMR CNRS 5513

Laboratory of Image Informatics and Information Systems LIRIS/UMR CNRS 5205

Research axis in ENISE:

- Dynamics of Complex Systems
- Geomaterials and Sustainable Construction Materials
- Tribology, Physical Chemistry and Dynamics of Interfaces
- Mechanics, Materials and Processes
- Image and Data Processing

<b>GENERAL INFORMATION</b>	
Headquarters: name and address	Ecole Centrale de Lyon – ECL 36 avenue Guy de Collongue 69134 ECULLY Cedex
ENISE	Ecole Nationale d'Ingénieur de Saint-Etienne – ENISE 58 rue Jean Parot 42023 ST ETIENNE Cedex 2
Website	<a href="http://www.enise.fr">www.enise.fr</a>
Phone	+33 4 77 43 84 84
Social media	<a href="https://www.facebook.com/ENISaintEtienne/">www.facebook.com/ENISaintEtienne/</a> <a href="https://twitter.com/ENISaintEtienne">twitter.com/ENISaintEtienne</a>
Director of International Relations	Cédric COURBON
Head of the International Relations Office	Roxana COLLET
Coordinator of Outgoing Mobility	Igor MOVCHAN
Coordinator of Incoming Mobility	Irina MOVCHAN
IRO email	<a href="mailto:international@enise.fr">international@enise.fr</a>
<b>ACADEMIC INFORMATION</b>	
Courses taught in French	<a href="https://www.enise.fr/formations">https://www.enise.fr/formations</a>
Courses taught in English	<b>See in Appendix</b> Syllabi available on request by email to <a href="mailto:irina.movtchan@enise.fr">irina.movtchan@enise.fr</a>
Grading system	30 ECTS per semester 60 ECTS per year A excellent / B really good / C good / D satisfactory / E passable / F repeating / Fx examination
Engineering degree for international students under Double-Degree Agreement	120 ECTS including 90 ECTS courses and 30 ECTS industrial placement
Calendar	Fall Semester : September-January Spring Semester : February-June
<b>APPLICATION AND ADMISSION</b>	
Nomination	Sending nomination mail to <a href="mailto:international@enise.fr">international@enise.fr</a> - by June 1 <sup>st</sup> for the Fall Semester - by November 15 <sup>th</sup> for the Spring Semester
Application form and further information	Irina MOVCHAN <a href="mailto:irina.movtchan@enise.fr">irina.movtchan@enise.fr</a>

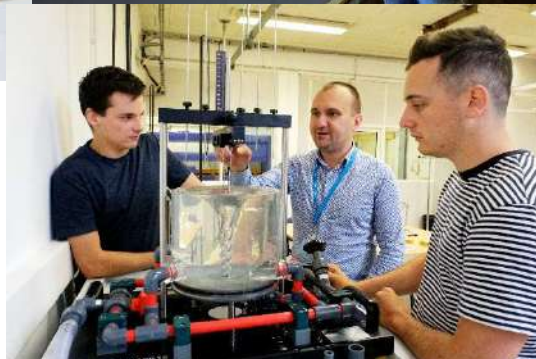
# APPENDIX

## International semesters

Courses taught in English

For exchange students

**2021-2022**



# General Information





## ■ Course structure

The Programme proposed in each department is based on a Major topic related to the **expertise fields** of ENISE.

Each Programme consists in several **mandatory core modules** that will cover 15 ECTS. Additional modules can be **freely** selected to reach the desired number of ECTS up to 30 ECTS per semester.

**100% English taught** – French as Foreign language (FLE) course is also offered  
**1 ECTS** credit is approximately equivalent to **14 hours** of courses or personal work

The following colour legend will be used to distinguish the different types of modules:

	Scientific core modules
	Humanities and Open Your Mind
	Scientific Elective Modules
	Technical/Research Project

## ■ Deadlines and Application

### Schedule:

**Fall semester** from September to January.

**Spring semester** from February to June

### Application deadlines:

**June 15th** for the Fall semester and academic year.

**December 15th** for the Spring semester.

### Application procedure:

<https://www.enise.fr/international/venir-etudier-enise>

## ■ Tuition fees

**Free of charge** for exchange students nominated by a partner institution

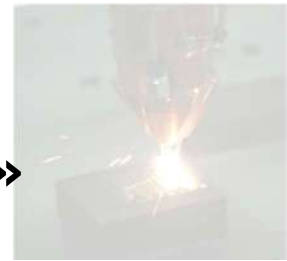
**601€** for EU students coming as free movers

**3770€** for Non-European students coming as free movers

*“A new opportunity for international students looking for a specific technical and scientific expertise...  
... in Saint-Etienne!”*

# Mechanical Engineering

## Major in «Advanced Manufacturing»



### Fall Semester (September to January)

	Reference	Modules	Hours	ECTS
<b>Mandatory Core modules</b>	I5GMPIoSNPT	Comput. Methods for Manuf. Processes	28	4
	I5GMPIoIOMA	Tool-Material Interaction	14	2
	I5GMXXoFADD	Additive Manufacturing	28	4
	I5GMXXoTRSU	Surface Texturing	28	4
	OYM	Open Your Mind ( <i>Seminars, Guest lecturers, company visits...</i> )	14	1
				<b>15</b>

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	Reference	Modules	Hours	ECTS
<b>"A la Carte" up to 15 ECTS</b>	I5SHTCx_FLE/ANGL	Modern language: French or English	30	2
	I5OPTCx_EPS/PROP	Sport or Student club	-	1
	I5SHTCoMANA	Strategic Management	18	2
	I5SHXXoCHAI	Supply Chain	28	4
	I5GMXXoOSPR	Production system optimization	28	4
	I5GMTCoPTECI	Project Course I	112	8
	I5GMTCoPTECII	Project Course II	210	15

### Spring Semester (February to June)

	Reference	Modules	Weeks	ECTS
	I5GMGMo_PFE	Laboratory Research Project	24	30
		The student works on a research based scientific problem following a project approach. The student will have to develop abilities in managing objectives, planning, decision making, working independently and with initiative, delivering and presenting results in a written and oral way.		

**Contact:** [cedric.courbon@enise.fr](mailto:cedric.courbon@enise.fr)



# Sensory Engineering

## Major in «Perception»



### Fall Semester (September to January)

	Reference	Modules	Hours	ECTS
<b>Mandatory Core modules</b>	I5GSXXoFABR	Manufacturing processes for sensory app.	28	4
	I5SGSGSoRVIR	Augmented & Virtual Reality	28	4
	I5GMXXoCMEC	Mechatro. & Micro controllers	14	2
	I5MGMSoTVIV	Bio-tribology	28	4
	OYM	Open Your Mind ( <i>Seminars, Guest lecturers, company visits...</i> )	14	1
				<b>15</b>

+

	Reference	Modules	Hours	ECTS
<b>"A la Carte" up to 15 ECTS</b>	I5SHTCx_FLE/ANGL	Modern language: French or English	30	2
	I5OPTCx_EPS/PROP	Sport or Student club	-	1
	I5SHTCoMANA	Strategic Management	18	2
	I5GMXXoTRSU	Surface Texturing	28	4
	I5MGMSoLEAR	Machine Learning	14	2
	I5MGMSoBMAT	Bio-materials	12	2
	I5GSTCoPTECI	Project Course I	112	8
	I5GSTCoPTECII	Project Course II	210	15

### Spring Semester (February to June)

	Reference	Modules	Weeks	ECTS
	I5SGSGSo_PFE	Laboratory Research Project	24	30
		The student works on a research based scientific problem following a project approach. The student will have to develop abilities in managing objectives, planning, decision making, working independently and with initiative, delivering and presenting results in a written and oral way.		

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# Civil Engineering

## Major in «Building envelope»



### Fall Semester (September to January)

	Reference	Modules	Hours	ECTS
<b>Mandatory Core modules</b>	I5GCXXoPARA	Seismic Engineering	28	4
	I5GCXXoCNLI	Non linear mechanics	14	2
	I5GCXXoGIND	Lean Manufacturing in Civil Engineering	14	4
	I5GCXXoBCNU	Numerical basis for Civil Engineering	18	2
	I5GCXXoMCOM	Composite materials in Civil Engineering	28	4
	OYM	Open Your Mind ( <i>Seminars, Guest lecturers, company visits...</i> )	14	1
				<b>15</b>

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	Reference	Modules	Hours	ECTS
<b>"A la Carte" up to 15 ECTS</b>	I5SHTCx_FLE/ANGL	Modern language: French or English	30	2
	I5OPTCx_EPS/PROP	Sport or Student club	-	1
	I5SHTCoMANA	Strategic Management	18	2
	I5GCBAoOTCO	Acoustics in Civil Engineering	10	2
	I5GCTCoPTECI	Project Course I	112	8
	I5GCTCoPTECII	Project Course II	210	15

### Spring Semester (February to June)

	Reference	Modules	Weeks	ECTS
	I5GCGCo_PFE	Laboratory Research Project	24	30
		The student works on a research based scientific problem following a project approach. The student will have to develop abilities in managing objectives, planning, decision making, working independently and with initiative, delivering and presenting results in a written and oral way.		

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