



# International semesters



2020-2021

**Courses taught in English**  
For Exchange Students



Associée à  
ÉCOLE  
CENTRALE LYON

# Getting Started



The **ENISE, National Engineering School of Saint-Etienne**, trains engineers with a strong technological expertise at the service of the industry of the future within 5 years, in the fields of Mechanical Engineering, Civil Engineering and Physical Engineering. The training provides scientific, technological and humanist skills through new educational methods to bring all students to their excellence. Numerous internships in companies as well as strong links with industrial partners enable ENISE engineers to immediately be efficient in their work.

Studying on an **international semester** at the ENISE will enable you to **gain an original knowledge** developed by experts researchers working in the fields of mechanical, civil, and sensory engineering and involved in international-scale projects.

- The **Mechanical engineering** semester offers knowledge in both subtractive and additive manufacturing as well as in hybrid technologies. An innovative approach combining the versatility of the additive manufacturing with the advantages of the subtractive methods revolutionized the way of manufacturing parts and functional surfaces.
- The **Sensory engineering** semester, a field of study that overlaps both mechanical and civil engineering, presents a cutting-edge knowledge in design, manufacturing techniques, and subjective human perception on product manufactured with new configurations between visual, texture and touch features.
- The **Civil engineering** semester provides a new look at how to think out and implement modern technological solutions for constructing buildings and engineering structures in a human and environmentally friendly way.

The emphasis can be **personalized** depending on your choice of subjects and your personal goals and motivation, but all our international semesters will contribute to achieve your full potentials in studies enhancing also your employability.

# 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:

**May 15<sup>th</sup>** for the Fall semester and academic year.

**November 15<sup>th</sup>** for the Spring semester.

### Application procedure:

<https://www.enise.fr/en/International-relations/incoming-mobility.html>

## ■ Tuition fees

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

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

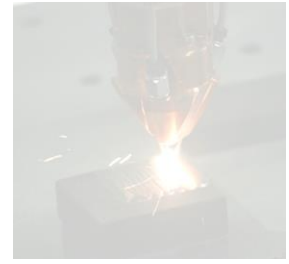
**3770€** for Non-European students coming as free movers (for the whole year, 1885€ for the 1st semester only)

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

*ECTS = European Credits Transfer System*

# 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
	I4GSGSoRSAS	Surface 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
	I5GMXXoTRSU	Surface Texturing	28	4
	I5SHXXoCHAI	Supply Chain	28	4
	I5GMXXoOSPR	Production system optimization	28	4
	I5GMTCoPTECI	Technical Project I	112	8
I5GMTCoPTECII	Technical Project II	210	15	

### Spring Semester (February to June)

	Reference	Modules	Weeks	ECTS
	I5MGMMo_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>	I4GSGSoPROD	Development in Sensory Engineering	30	4
	I4GSGSoPTAC	Tactile perceptions	14	2
	I4GSGSoPROD	Practice of Sensory Engineering	20	2
	I5GMXXoCMEC	Mechatro. & Micro controllers	14	2
	I4GSGSoMTEX+I4GSG SSHAR	Augmented Reality	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
	I5GMXXoTRSU	Surface Texturing	28	4
	I4GSGSoRSAS	Surface Engineering	28	4
	I5GMGSoBMAT	Bio-materials	12	2
	I5GSTCoPTECI	Technical Project I	112	8
	I5GSTCoPTECII	Technical Project II	210	15

### Spring Semester (February to June)

	Reference	Modules	Weeks	ECTS
	I5GSGSo_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>

+

	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	Technical Project I	112	8
	I5GCTCoPTECII	Technical Project 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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# Practical information

## ■ Accommodation

**Furnished accommodations** are guaranteed and pre-booked before arrival for each student registered in these semesters

For more information, please look at the International Students Guide available on our website: <https://www.enise.fr/en/International-relations/incoming-mobility.html>

## ■ Intensive French course

**Possibility** to attend an intensive French course during the last week of August and first week of September.

## ■ Saint-Etienne in a few words and figures

- **400 000** inhabitants with suburbs
- more than **11 000** companies, 2nd national region for SMEs
- **UNESCO** City of Design since 2010
- **25 000** students, **15%** of foreign students
- **Student integration:** "Sainté Accueille Ses Étudiants" : more than **25** free events during **10 days** with more than **4000** participants



# International Relations Office

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Associée à

