Double Degree Program – Master in Civil Engineering @ ECN & UNIFE

Implementation and procedures

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General information about the Double Degree

Double Degree Program – Master in Civil Engineering @ ECN & UNIFE

Master de Sciences, Technologies, Santé, mention Génie Civil

Ecole Centrale de Nantes (ECN) France

https://www.ec-nantes.fr/study/masters/materials-and-structures-in-their-environment

Laurea Magistrale in Ingegneria Civile - Indirizzo Costruzioni

Engineering Department, University of Ferrara (UNIFE) Italy

https://corsi.unife.it/lm-ing-civile

Kick off: AY 2024-2025

Number of students admitted each year: 4

Language level recommended: B1 in English & Italian

General information about the Double Degree

Double Degree Program – Master in Civil Engineering @ ECN & UNIFE

Program:

1st year at the home University

2nd year at the partner University + Master thesis

Master Defense at both partner & home Universities

Professional qualification is not required in France

Professional qualification can be achieved in Italy after an additional State Examination

General information about the Double Degree

Double Degree Program – Master in Civil Engineering @ ECN & UNIFE

- **Financial support for UNIFE students**

  Applicants ranked 1st and 2nd will receive the **Eramus+ mobility contribution** (€ 300/month for 10 months) and the **Erasmus+ Student Status** *https://erasmus-plus.ec.europa.eu/it*

  Applicants ranked 1st and 2nd will receive the **"Fondo Giovani" mobility contribution** (€ 300-400/month for 10 months) by MUR *https://www.mur.gov.it/*

  Applicant ranked 1st will receive an additional scholarship funded by the Engineering Department of the University of Ferrara (3000 €) https://de.unife.it/it

- **Financial support for ECN students**

  Applicants will receive the **Eramus+ mobility grant** (~ 300€/month) and the **Erasmus+ Student Status** *https://erasmus-plus.ec.europa.eu/fr*

Some initial comments

Double Degree Program – Master in Civil Engineering @ ECN & UNIFE

Implementation and procedures

- This document tries to describe the implementation process of the double degree (DD) agreement, looking especially at students' point of view
- Person in charge of the DD are:
  - **Prof. Alessandra Aprile @ ENGINEERING DEPARTMENT of UNIFE**
  - **Prof. Giulio Sciarra @ INSTITUT DE RECHERCHE EN GÉNIE CIVIL ET MÉCANIQUE (GEM) of ECN**
- Special attention has been paid to dates and people in charge of the different required procedures
- We will consider that the mobility period ranges years N and N+1 (eg. 2024-2025), such that year N-1 would be 2023, and so on.

ECN & UNIFE Students at home and partner University

General framework of the double degree

YEAR	Università di Ferrara Laurea Magistrale in Ingegneria Civile *Percorso Costruzioni*	Ecole Centrale de Nantes Master de Sciences, Technologies, Santé, Mention: Génie Civil, Parcours: Matériaux et Structures dans leur Environnement	ECTS
1st	Course taken at students' home institution		60
2nd	- Courses taken at UNIFE transferrable to ECN - Thesis	- Courses taken at ECN transferrable to UNIFE - Thesis	60
		Total ECTS	**120**

CENTRALE NANTES

UNIFE Students @ ECN

UNIFE students @ ECN

Academic pathway of UNIFE students

	ECN	UNIFE
Bachelor Degree	1st year	1st year
	2nd year	2nd year
	3rd year	3rd year
Master Degree	1st year	1st year
	2nd year	2nd year

Master de Sciences, Technologies, Santé, mention Génie Civil

https://www.ec-nantes.fr/

+

Laurea Magistrale in Ingegneria Civile Indirizzo Costruzioni

http://www.unife.it/

UNIFE students @ ECN Global equivalence table of the 1st year

Courses attended at UNIFE		Courses transferred to ECN	
Title	**ECTS**	**Title**	**ECTS**
Costruzioni Idrauliche (B)	12	Fluid Mechanics 1	5
		Physical Modelling	4
		Algorithmics for Engineering Modeling	4
Valutazione progetti immobiliari (C)	9	Business Environment	4
		Language course (French)	2
		Language course (French)	2
		Conferences	-
Calcolo numerico e laboratorio (D)	9	Numerical Methods	5
		Mathematical Methods in Civil Engineering	4
Meccanica delle Strutture (B)	9	Continuum Mechanics	5
		Constitutive Laws	5
Geologia dei terremoti (C)	9	Geotechnical Engineering	5
		Imaging in Civil Engineering	5
Riabilitazione Strutturale (B) – odd yrs Tecnica delle Costruzioni 2 (B) – even yrs	9	Concrete and Structures	5
		Vibrations and Differential Equations	5
Total ECTS	**57**	**Total ECTS**	**60**

UNIFE students @ ECN

Global equivalence table of the 2nd year

Courses attended at ECN		Courses transferred to UNIFE	
Title	**ECTS**	**Title**	**ECTS**
Design and Behaviour of Modern Concrete	4	Tecnica delle Costruzioni (B)	12
Numerical Analysis	5		
Mechanics of Porous Media	5	Geotecnica (B)	12
Homogenization Methods in Heterogeneous Media	4		
Earthquake Engineering	4	Progettazione in zona sismica (B)	9
Language course (French)	2		
Statistics of Materials and Structural Reliability	4	Progetti di Strutture (B)	9
Project	2		
Master Thesis or Industrial Internship	30	Tirocinio	6
		Esame finale	12
Total ECTS	**60**	**Total ECTS**	**63**

UNIFE students @ ECN

Requisites and selection process

- **Requisites** will be **defined in the official call** every academic year (N-1,N)

  1. **Complete a bachelor degree** or equivalent at their home university

     → *Laurea Triennale in Ingegneria Civile e Ambientale (Before Sep N-1)*

  2. Students have successfully completed the **first year** of the master program at home university (**Laurea Magistrale in Ingegneria Civile**) (N-1,N)

  3. **Required knowledge of instruction language at host university (English– B1 level recommended):** *Students selected for the double degree program must have a sufficient linguistic level to undertake studies at the receiving institution. The host university held the right to refuse applicants if they do not meet these conditions.*

- **Selection process**
  - Based on academic results of the student
  - Motivational interview

UNIFE students @ ECN

What students must know and steps required

Mobility during academic year [N,N+1]

Item	Description	Dates	Responsible body	Comments
1	Launching of the call of the double degree agreement for academic year [N,N+1] (UniFe->ECN)	February (year N)	Bilateral Commission of the Agreement	Publishing and disseminating
2	Assessment and selection of students	March (N)	Home Faculty/School (UNIFE)	
3	Submission of the list of selected students	April (N)	Home Faculty/School (UNIFE)	
4	Pre-registration on the master degree	June (N)	Any student interested in the agreement	Inform students
5	Mobility period	September (N) – June (N+1)		
6	Master Thesis Defense @ECN	End of August (N+1)	Host Faculty/School (ECN)	
7	Master Thesis Defense @UNIFE	October (N+1)	Home Faculty/School (UNIFE)	
8	Transcript of records	November (N+1)	Home &Host Faculty/School (ECN & UNIFE)	
9	Issue of the university degrees	December (N+1)	Home &Host Faculty/School (ECN & UNIFE)	

UNIFE students @ ECN

More options about the MSc thesis defence

MSc Defence @ ECN	MSc Defence @ UNIFE
August (N+1)	October (N+1)
---	December (N+1)
---	February (N+2)
---	March (N+2)

PAY ATTENTION!

The first semester exams will be taken at **the beginning of January (N+1)** with a second call at the beginning of February (N+1).

The second semester will be entirely spent for **traineeship and Ms thesis work**.

UNIFE students @ ECN

Master Thesis (Final Project) at ECN

Information about the procedure at the following link: https://etudiant.ec-nantes.fr/english-version/thesis-internship

1. Proposal of master thesis (Application form), approved by the Master Thesis Supervisor – online procedure (January N+1)
2. The Ms thesis is developed during the stage period of 6 months (average salary of 600 €/month, provided by the company or the research lab)
3. Hand out the document (English) to the supervisor – 1 week before the thesis defense
4. Oral Presentation (in English) to an assessment committee – 6 months after step 1

Some pics of ECN

ECN – Some info and Teaching staff

- Professors and Research associates ~ 70
- Research activity: each year ~300 peer-reviewed papers in international journals & conferences
- Master courses in Civil, Mechanical Engineering, Marine Technologies, Control & Robotics, Industrial Engineering, City & Urban Environment
- Students ~ 2.000
- Employment rate of graduates: **73%** after 6 months

Some people

Dr. Jean-Baptiste Avrillier
Director of ECN

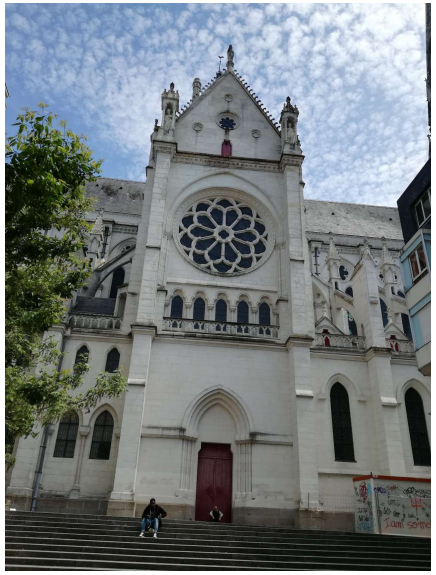
Prof. Ahmed Loukili
Head of GEM

Prof. Giulio
Coordinator of Master de Sciences, Technologies, Santé, mention Génie Civil

Prof. Vincent Frémont
Coordinator of International Relations

The city of Nantes

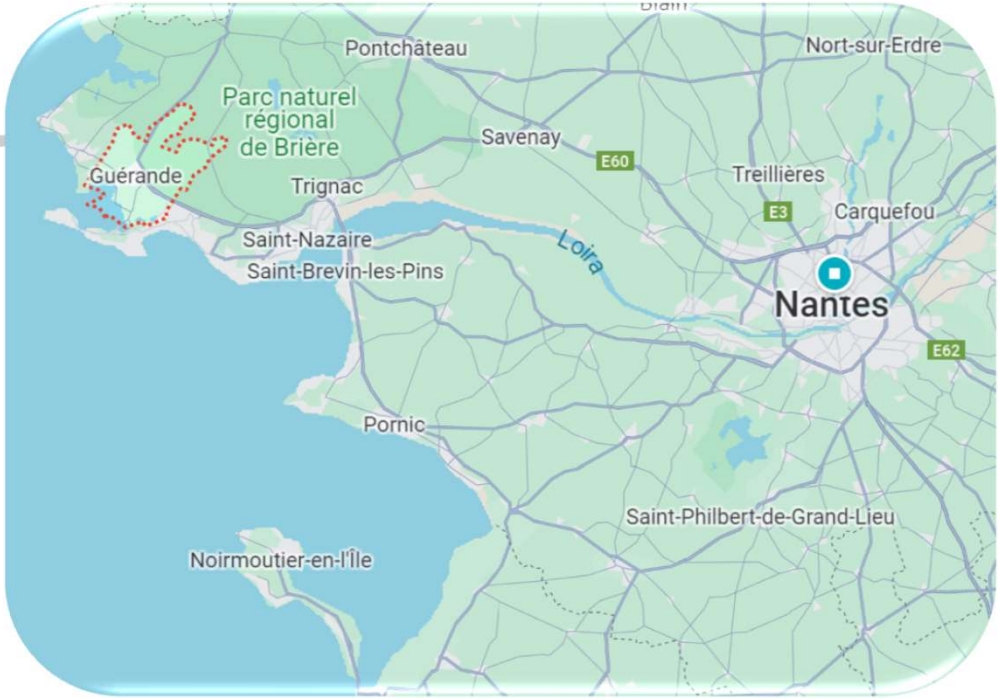
≈ 320.000 inhabitants



Nantes surroundings

The natural environment

Guérande
Saline de Guerande



Ile de Noirmoutier

Pecherie Saint Nazaire

How to get to Nantes from Ferrara

By plane…

1. Train, bus or car from Ferrara to Bologna airport (~ 1h)

2. Fly from Bologna airport to Nantes airport

   (~ 5h of flight time with 1 flight stop)

3. Bus from Nantes airport to Centrale Nantes (~ 1h)

OBLIGATIONS

1. Fees are due to home University only
2. Health and liability insurances are subscribed at host University
3. Behaviour rules are set by host University and Country

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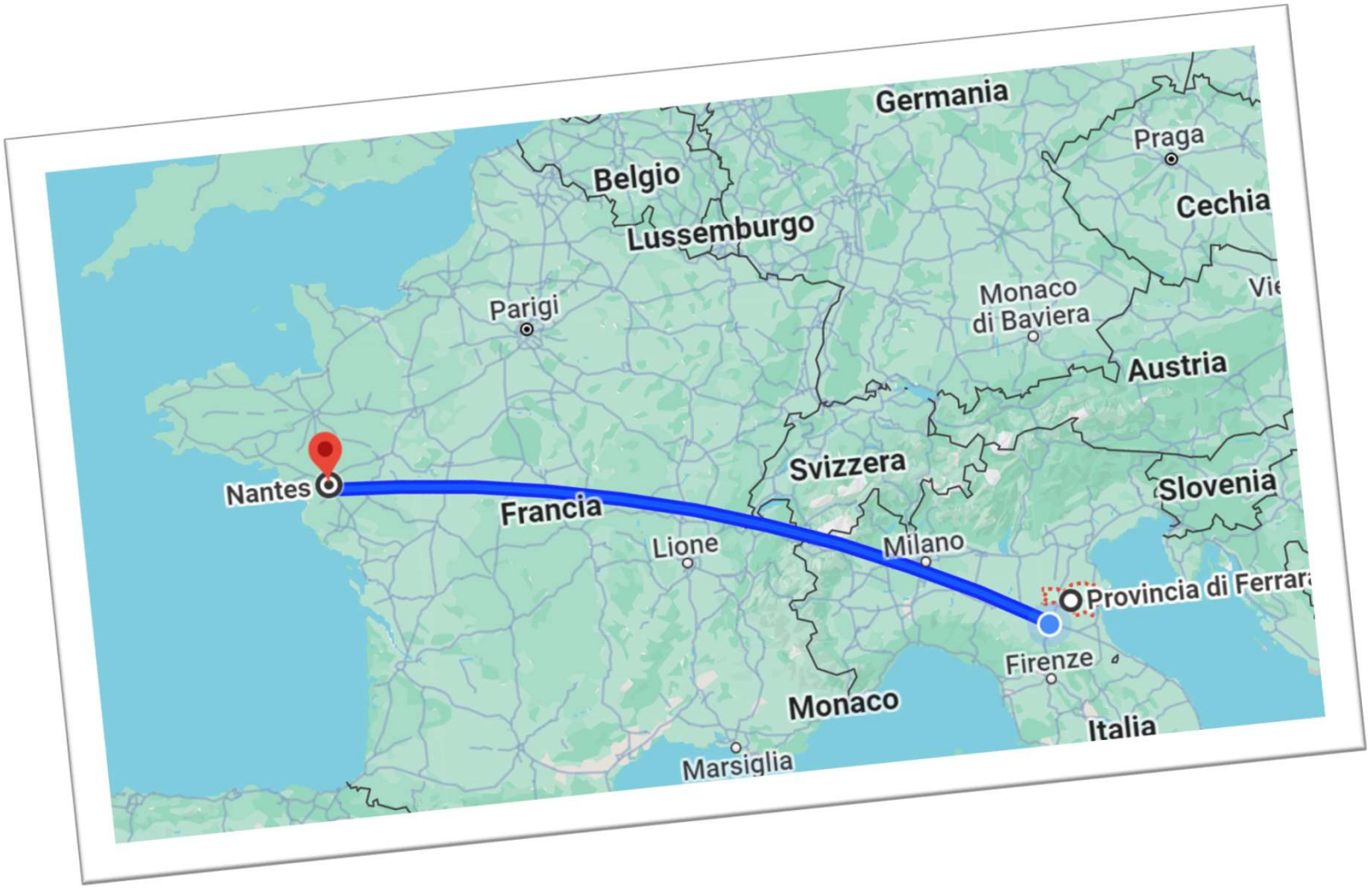
STUDENTI UNIFE ALL'ESTERO:
https://classroom.google.com/c/NDM4NTkwNzk1ODEy?cjc=se66xq3



MERCI BEAUCOUP

GRAZIE MILLE