DOUBLE DEGREE UNINORTE / UNIVERSITÉ DE NANTES

« CIVIL ENGINEERING AND MARINE TECHNOLOGY »
Hybrid training program

This program is specialised in Maritime and Harbour Civil Engineering.
It is offered in cooperation with Nantes Université (France) to students enrolled from the Environment and Civil Engineering Department. Under this programme, students will be able to pretend to the following double degree :

- Uninorte « Pregrado »
- Master's degree of Marine Technology (major in « Marine civil engineering ») of Nantes Université

Academic offer

Year 1 : Blended training program

At Uninorte during semesters 9 and 10, students attend to a mixed program, with half of the courses delivered by Uninorte and half delivered by Nantes Université through a e-learning program, corresponding to semesters 1 and 2 of the European Master's degree.

E-learning courses are developed by the Sea Sciences Digital University UN e-SEA. They are available on-line, through a platform which can be accessed with a computer, a tablet or a smartphone. Students study courses, events and resources, complete exercises and tests, take part to virtual teaching and projects, and submit their assignments and works.

Year 2 : Mobility program to Nantes Université - 2nd year of Master's degree in Marine Technology (major in « Marine civil engineering »).

Students attend to Semester 3 and 4 in France. Courses are delivered at the Saint-Nazaire Campus from September to February. At the end of Semester 4, from March to June, the professional or research internship is realised rather in France or in Colombia.
See reverse for more details.

Applicant's profile

- **Students registrated in Semester 8**
- **Level of French : B1 validated, B2 underway**

Training fees and registration regime

Students maintain their status as students in Uninorte during the whole program.
Application form be submitted before 2022/05/17 (dowload here).

- For the courses delivered by Uninorte, fees are to be paid to Uninorte according to applicable usual rates.
- For the courses delivered by Nantes Université, fees are to be paid to Nantes Université according to applicable usual rates.

More information :

In Colombia

Scientific coordination :
Andres Fernando Guzman Guerrero
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Administrative coordination :
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In France

Scientific coordination :
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E-learning coordination :
Laura Patier
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Year 1 – Blended learning

Courses delivered by the University Del Norte

Semesters 9 et 10

Course unit	Teaching hours
*Professionnal elective 1**	48h
*Philosophy elective**	48h
Humanities electives	48h
Social sciences electives	48h

**To be chosen among « civil engineering » electives*

E-learning courses deliverd by Nantes Université

Semesters 9

Course unit	Teaching hours
Calcul numérique pour l'ingénieur - *Numerical calculation (MATLAB)*	Eq. 28h
Béton armé, construction métallique, construction mixte suivant les Eurocodes - *Structural design according to Eurocodes*	Eq. 48h
Houle, Marée, Aménagement offshore - *Maritime hydraulics and structure design*	Eq. 48h

Semesters 10

Course unit	Teaching hours
Fiabilité - *Reliability*	Eq. 48h
Géotechnique marine - *Marine geotechnics*	Eq. 20h
Projet d'étude technique (Capstone design) - *Capstone design technical project*	Eq. 48h

Year 2 – Mobility to Nantes Université

Courses to be attended at Université de Nantes, according to the Master's curriculum

Course unit	
Ingénierie des prix - *Price engineering*	40 h
Maintenance des ouvrages et bâtiments - *Maintenance of building and works*	22 h
Management	18 h
Méthodes non destructives pour matériaux et structures - *Non destructive methods for materials and structures*	18 h
Pathologie des matériaux - *Materials pathology*	18 h
Génie parasismique - *Earthquake engineering*	12 h
Géotechnique : fondations superficielles et profondes - *Geotechnics : shallow and deep foundations*	36 h
Anglais pour la communication scientifique - *English for scientific communication*	10 h
Projet d'initiation à la recherche - *Introduction to research : project*	-
Ouvrages géotechniques - *Geotechnic construction work*	32 h
Projet technico-économique - *Techno-economic project*	40 h
Aménagement portuaire - *Harbour design*	38 h
Conception des ouvrages maritimes - *Marine structure design*	22 h
Méthodes de réalisation des ouvrages maritimes - *Building methods for marine structures*	44 h

Stage professionnel ou en laboratoire - *Professional or research internship*	4 to 6 months