

# FACT SHEET FOR CENTRALE NANTES 2023/24

Name of the Institution	Ecole Centrale de Nantes
Institutional Erasmus Code	F NANTES07
Institution Website	<a href="https://www.ec-nantes.fr/english-version">https://www.ec-nantes.fr/english-version</a>
Erasmus Institutional Coordinator	Email : <a href="mailto:international@ec-nantes.fr">international@ec-nantes.fr</a>
International Mobility Manager	Ms Clémentine HOUSSAIS Email : <a href="mailto:international@ec-nantes.fr">international@ec-nantes.fr</a>
Address	Centrale Nantes 1 rue de la Noë 44300 NANTES
Academic Calendar	Autumn Semester: September 1st – January 31 <sup>st</sup> Spring Semester: February 1st – June 30 <sup>th</sup>
Nomination	By email to <a href="mailto:international@ec-nantes.fr">international@ec-nantes.fr</a> Deadline: Autumn Semester 1 <sup>st</sup> May Spring Semester 15 <sup>th</sup> October
Application	Through link received by email. Deadline: Autumn Semester 15 <sup>th</sup> May Spring Semester 30 <sup>th</sup> October
Documents for Application	<ul style="list-style-type: none"> <li>&gt; CV (or a Europass for European students)</li> <li>&gt; a cover letter (in French or English)</li> <li>&gt; the latest transcript of records</li> <li>&gt; a complete and signed learning agreement (use the templates <a href="#">downloadable</a> on our website)</li> <li>&gt; copy of ID or passport</li> </ul>
Language requirements (for partners)	Recommended: B1 in French for courses in French B1 in English for courses in English (no certificate needed for partners)
Useful Information	<a href="#">Centrale Nantes Practical Information</a>
Double Degree Information	<a href="#">Information related to Double Degree in Engineering</a>
Semester Exchange	<a href="#">Information for Semester Exchange Students</a>
Introduction Video	<a href="#">A short introductory video (follow us on Youtube for more)</a>
Virtual tour of the Campus	<a href="#">Visit ECN Campus Virtually</a>

## PROGRAMMES PROPOSED BY CENTRALE NANTES

<p><u>Master's Programmes</u> (In English)</p>	<p><b>Marine Technology (M-TECH)</b></p> <ul style="list-style-type: none"> <li>• HYDRODYNAMICS FOR OCEAN ENGINEERING</li> <li>• ATLANTIC MASTER ON SHIP OPERATION &amp; NAVAL ENGINEERING</li> </ul> <p><b>Mechanical Engineering (M-ENG)</b></p> <ul style="list-style-type: none"> <li>• ADVANCED MANUFACTURING</li> <li>• COMPUTATIONAL MECHANICS</li> <li>• ENERGETICS AND PROPULSION</li> <li>• ADVANCED COMPOSITE ENGINEERING AND SCIENCE</li> </ul> <p><b>Control and Robotics (CORO)</b></p> <ul style="list-style-type: none"> <li>• SIGNAL AND IMAGE PROCESSING</li> <li>• ADVANCED ROBOTICS</li> <li>• EMBEDDED REAL TIME SYSTEMS</li> <li>• CONTROL SYSTEMS</li> </ul> <p><b>Civil Engineering (C-ENG)</b></p> <ul style="list-style-type: none"> <li>• MATERIALS AND STRUCTURES IN THEIR ENVIRONMENT</li> </ul> <p><b>City and Urban Environments (U-ENV)</b></p> <ul style="list-style-type: none"> <li>• ATMOSPHERE, WATER AND ENVIRONMENT</li> <li>• ARCHITECTURE, AMBIANCES, URBANITY (YEAR 2 IN FRENCH)</li> </ul> <p><b>Industrial Engineering (I-ENG)</b></p> <ul style="list-style-type: none"> <li>• AGILE FACTORY MANAGEMENT</li> <li>• SMART AND CONNECTED ENTERPRISE</li> </ul>
<p><u>Engineering Options</u> (In French)</p>	<p><b>Manufacturing</b></p> <ul style="list-style-type: none"> <li>▪ AERONAUTICS</li> <li>▪ MECHANICAL ENGINEERING FOR MATERIALS AND MANUFACTURING PROCESSES</li> <li>▪ PRODUCT ENGINEERING</li> <li>▪ ROBOTICS</li> <li>▪ INDUSTRIAL ENGINEERING</li> </ul> <p><b>Geomatic, Civil &amp; Environmental Engineering</b></p> <ul style="list-style-type: none"> <li>▪ CIVIL ENGINEERING AND SUSTAINABLE CONSTRUCTION</li> <li>▪ ENGINEERING SCIENCE FOR HOUSING AND URBAN ENVIRONMENT</li> </ul> <p><b>Digital Economy</b></p> <ul style="list-style-type: none"> <li>▪ COMPUTER SCIENCE FOR INFORMATION SYSTEMS</li> <li>▪ DATA ANALYSIS AND APPLICATIONS IN SIGNAL AND IMAGE PROCESSING</li> <li>▪ MATHEMATICS AND APPLICATIONS</li> <li>▪ ADVANCED MODELLING AND ANALYSIS OF STRUCTURES</li> <li>▪ VIRTUAL REALITY</li> <li>▪ COMPUTER SCIENCE FOR ARTIFICIAL INTELLIGENCE (NEW)</li> </ul> <p><b>Energy, Ocean</b></p> <ul style="list-style-type: none"> <li>▪ ENERGY PRODUCTION AND MANAGEMENT</li> <li>▪ OCEAN: HYDRODYNAMICS AND MARINE ENGINEERING</li> <li>▪ PROPULSION AND TRANSPORT</li> <li>▪ ENERGY CONTROL AND MANAGEMENT (NEW)</li> <li>▪ RENEWABLE ENERGIES AND GRID INTEGRATION (NEW)</li> </ul> <p><b>Health</b></p> <ul style="list-style-type: none"> <li>▪ DIGITAL SCIENCES FOR LIFE SCIENCES AND HEALTHCARE</li> </ul> <p><b>Project Specialisations</b></p> <ul style="list-style-type: none"> <li>▪ LOW-TECH ENGINEERING (NEW)</li> <li>▪ HEALTH AND INNOVATION (NEW)</li> <li>▪ SMART POSITIONING AND SUSTAINABLE MOBILITY (NEW)</li> </ul>

Both Master's and Engineering programmes are open for Exchange or Double Degree students.

- > For the **DOUBLE DEGREE**: a relevant agreement mentioning 'Master' or 'Engineering' must be signed.
- > For **EXCHANGE**: both **MOU** and **Erasmus+** agreements allow access to **Master's and Engineering options**.

Apply for one of our Erasmus Mundus Programmes

	<p><b>E-PiCo</b> Electric Vehicle Propulsion &amp; Control</p>	<ul style="list-style-type: none"> <li>  Centrale Nantes, France (coordinator)</li> <li>  Christian-Albrechts-Universität zu Kiel, Germany</li> <li>  Università degli Studi dell'Aquila, Italy</li> <li>  Universitatea Politehnica din Bucuresti, Romania</li> </ul>
	<p><b>JEMARO</b> Japan-Europe Master on Advanced Robotics</p>	<ul style="list-style-type: none"> <li>  Centrale Nantes, France (coordinator)</li> <li>  Keio University, Japan</li> <li>  University of Genoa, Italy</li> <li>  Warsaw University of Technology, Poland</li> </ul>
	<p><b>REM+</b> Renewable Energy in the Marine Environment</p>	<ul style="list-style-type: none"> <li>  University of the Basque Country (UPV) Spain (coordinator)</li> <li>  Centrale Nantes, France</li> <li>  Norwegian University of Science and Technology (NTNU), Norway</li> <li>  University College Cork (UCC), Ireland</li> </ul>
	<p><b>EMship+</b> European Masters Course Advanced Design of Ships and Offshore Structures</p>	<ul style="list-style-type: none"> <li>  University of Liège, Belgium (coordinator, M1)</li> <li>  Centrale Nantes, France (M2 host)</li> <li>  University of Rostock, Germany (M2 host)</li> <li>  Polytechnic University of Madrid, Spain (M2 host)</li> <li>  West Pomeranian University of Technology, Poland</li> <li>  Dunarea de Jos University of Galati, Romania</li> <li>  University of Genoa, Italy</li> <li>  Southampton Solent University, United Kingdom</li> </ul>
	<p><b>DREAM</b> Dynamics of Renewables-based Power Systems Power Systems, Smart Grids Renewable Generation Automatic Control and Power Electronics</p>	<ul style="list-style-type: none"> <li>  Centrale Nantes, France (coordinator)</li> <li>  Universitat Politècnica de Catalunya, Spain</li> <li>  Hochschule für Technik und Wirtschaft, Germany</li> <li>  Universitatea Politehnica din Bucuresti, Romania</li> </ul>

