EMSHIP KEY POINTS

An interdisciplinary combination of technical, scientific and management skills obtained through a worldwide unique qualification programme supported by six leading European universities, offering excellent career opportunities to graduates.

> Four different specializations offered during the third semester, after a one-year common core.

> The opportunity to experience a variety of academic and cultural environments through a mobility scheme covering three different countries.

 An international network of associate universities and industries.

LANGUAGE

All the lectures will be in English.

French, Italian, German, Romanian and Polish language courses will be available.

A four weeks compact Course of English will be available at the University of Liège before the start of the first semester.

SCHOLARSHIPS

Excellent applicants from non European countries as well as European countries will be granted scholarships covering the tuition fees, travel to and from Europe and cost of monthly living allowance of 1,000 for 18 months.

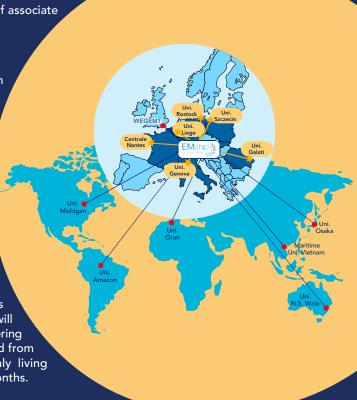
TUITION FEES

For the cycle of 90 credits (18 months): $9.450 \in$ for non European students $4.950 \in$ for EU Students

APPLICATION (VIA WEB)

see http://www.emship.eu and follow the application procedure

CONTACT
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MASTER OF ENGINEERING

INTEGRATED ADVANCED SHIP DESIGN



ERASMUS MUNDUS
MASTER COURSES

WWW.EMSHIP.EU















PRESENTATION OF EMSHIP

The objective of EMSHIP Erasmus Mundus Master is to provide a high education in Naval Architecture, Ship Design and Shipbuilding through a 1.5 year - 90 ECTS Credits- Master Course.

This program is supported by the European Commission under the Erasmus Mundus funding scheme.



ADMISSION CRITERIA

EMship directly relates to the future needs of the European and international marine industry.

The EMship degree program has been developped specially for:

- > Students holding an engineering master degree (300 Credits) seeking for an additional specialisation in Ship Design
- > Engineering officers with 3-5 years sea service planing a career onshore.
- Students seeking complementary education in deep sea transport, mega/ motor Yachts, sailing pleasure crafts but also in safer and cleaner waterway.
- > Engineers searching for advanced education in hydrodynamics in ship design, ship production, CAD, information technology and ship structures.

CONSORTIUM

The consortium is composed of six European institutions with a long standing tradition in the diverse fields of Ship Design and Marine engineering:

- > University of Liège (Belgium) coordinator of the program http://www.anast.ulg.ac.be
- > Ecole Centrale de Nantes (France) http://www.ec-nantes.fr
- > Dunarea de Jos University of Galati (Romania) http://www.ugal.ro
- > University of Genoa (Italy) http://www.unige.it
- > University of Rostock (Germany) http://www.schiffbauforschung.de
- > West Pomeranian University of Technology (Poland) http://www.wtm.zut.edu.pl

The consortium includes six associated partners from prestigeous universities worldwide:

- > University of Michigan (USA)
- > University of Osaka (Japan)
- > Federal University of Amazon (Brazil)
- > VIMARU Maritime University (Vietnam)
- > University of New South Wales (Australia)
- > University of Sciences and Technology of Oran (Algeria)

A Strategic Advisory Board consisting of high level decision markers of leading European maritime companies and representatives from the associated universities worldwide will actively contribute to the continuous quality improval.

The mobility scheme involves 3 semesters in 3 countries (within a selection of 6 countries):

STUDY PROGRAM

The first and second semesters (60 credits) are dedicated to general lectures in Ship Design:

1st semester: University of Liège (Belgium) Ship design, theory, structures & production 25 ECTS credits		2 nd semester: Ecole Centrale de Nantes (France) Ship hydrodynamics 25 ECTS credits	
Modules E0	CTS	Modules	ECTS
Ship theory (static, dynamic and propulsion)	6	Water wave and sea state models for ship design	5
Ship structures and ship production	8	Seakeeping: theory & numerical modeling	5
Ship project & ship design	6	CFD for ship hydrodynamics	6
Electricity, ship equipment & diesel engines	2	Multi-objective optimisation for ship design	4
Design of high speed vessels	3	Experimental ship hydrodynamics	5
		rale de Nantes (France), 10 ECTS Credits reparation to the final project and technical visits	

The third semester (30 credits) will be dedicated to advanced lectures:

University of Galati (Romania) Maneuvering & propulsion 10 ECTS credits		University of Genova (Italy) Sailing & motor yachts 10 ECTS credits	
Modules	ECTS	Modules	ECTS
Ship maneuvering	5	Theory and design of motor yachts	5
Ship propulsion	5	Theory and design of sailing yachts	5
University of Rostock (Germany) CAD, Ship production, information technology 10 ECTS credits		West Pomeranian University ot Technology (Poland) Advanced ship structures 10 ECTS credits	
CAD, Ship production, information technology	ology	Advanced ship structures	and)
CAD, Ship production, information technology	ology ECTS	Advanced ship structures	and)
CAD, Ship production, information technology 10 ECTS credits	ECTS	Advanced ship structures 10 ECTS credits	

MASTER THESIS AND INTERNSHIP, 20 ECTS credits

Internship and master thesis with industry, coordinated by the consortium university visited during the third semester

Graduates will be awarded a Double Master Degree from University of Liège (Belgium) and Ecole Centrale de Nantes (France) and a diploma from the visited university for the third semester.