

WHY TO ENROLL?

Naval Architects and Marine Engineers have task to design, build and manage marine vehicles for the transport of person and goods as well as offshore structures for the exploitation of the energy from the sea: renewable and fossil.

The topics faced during the studies vary from merchant to Cruising and Navy ships, from offshore structures to the small craft both working, luxury and special vessels.

The tasks covered by Naval Architects and Marine Engineers are very different and therefore their education must be flexible to merge the rigorous methodological approach in the fundamental sciences with the capacity to interact with the specialists from different areas.

Working prospective is excellent, 70% within one year from the Graduation and 93% within three years from the Graduation (data Almalaurea 2018)

Some examples of Naval constructions



Links

General Info for International student mobility
www.international.unina.it/welcome-message/

School "Politecnica e delle Scienze di Base"
www.scuolapsb.unina.it

Department of Industrial Engineering
www.dii.unina.it

Master's studies in Naval Engineering
navale.dii.unina.it

For more info: mail to the course coordinator
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UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II
SCUOLA POLITECNICA E DELLE SCIENZE DI BASE

ENGINEERING

MASTER'S DEGREE IN NAVAL ARCHITECTURE AND MARINE ENGINEERING IN



DIPARTIMENTO DI
INGEGNERIA
INDUSTRIALE

Updated to May 2020

LEARNING OUTCOMES

Master Course in Naval Architecture and Marine Engineering aims to graduate engineers capable of dealing with engineering challenges on a wide range of marine vehicles, through the methodological fundamentals required in the Engineering. Teaching objectives are developing and strengthening of the technical and managerial knowledge and skills in broad economical, social and environmental context, the improvement of the team working, with the exchanging of the lead position as well as coordination of the team.

The students can work in the laboratories, especially in the Laboratory of Hydrodynamic Experiences, one of the biggest among European Universities facilities or participate at the 1001Vela competition, the international race of box rule sailing boats designed and built by students supervised by teachers.

Towing tank and the wave maker



FEDERICA designed, built and sailed by students



Except regular courses, seminars in which leaders and pioneers of the maritime, oil and gas and marine renewables industries visit the department and present to students, are organized.

The student can further enrich his/her studies by internship in the company, developing the Master thesis in collaboration with industrial and university tutor or participating in the Erasmus+ program students exchange or Erasmus Traineeship.

TRAINING PLAN

First Year

Probability And Statistics	6
Hull Outfit and Fitting Design	9
Naval Architecture I	
(Resistance and Propulsion of Ships)	9
Ship Seakeeping	9
Marine Transmission and Propulsion Systems	9
Elective courses from NAME field	6
Elective courses	6

Second Year

Naval Architecture II	6
Marine Electrical Systems	9
Ship Strength and Safety	12
Ship Design	6
Marine Engineering Systems	9
Elective courses	6
Seminars/Internship	6
Master Thesis	12

Elective Courses from NAME field

Design for Additive Manufacturing
Geometric modelling of hull forms
Ship Stability II
Experimental Methods in Naval Architecture

Elective Courses

Strength of Materials II
Offshore Structures
Economy and Business management
HVAC systems
Maritime Traffic Management and Control
Mathematical Analysis III

Credits

JOB AND CAREER OPPORTUNITIES

The main career opportunities with a Master Degree in Naval Architecture and Marine Engineering are in the following areas: research and development laboratories, advanced design, planning and programming, management of the complex systems both in the industry as well as in the public administration.

Our graduates work in:

- Shipbuilding design offices
- Design offices
- Shipyards for construction and repairation
- Classification society
- Ship owners companies
- Research Institutes or University
- Public Administration for the coordination and technical control in the naval and maritime field
- Companies dealing with the design, implementation and maintenance of machinery and systems on board

CAMPUS AREA

Teaching activities, labs, libraries and offices of the Department of Industrial Engineering are located in Napoli (Fuorigrotta) close to the San Paolo stadium.

