Bachelor's degree in Marine Technologies

The bachelor’s degree in Marine Technologies will give you a solid grounding in the operation, maintenance and management of power plants and ship systems, and in the design, reengineering and construction of vessels. In addition to working on board ships, graduates also have the skills needed to fill positions related to the operation of offshore platforms for oil and gas extraction, dredgers, underwater machinery, and any other industrial activity carried out in the maritime and land-based sector. You can choose between two majors:

Major in On-Board Practicals
You will be assigned to a merchant ship as a student trainee to complete part of the work experience component required to qualify as a marine engineering officer.

Major in Marine Electrotechnics
In this course you will develop the knowledge and skills required to work as an electro-technical officer. You will learn about electrical systems, automatic control and computer networks, radio navigation equipment, radio communication systems and other specialised topics.

This bachelor's degree is taught at Nautical Faculty of Barcelona, FNB

Majors
- On-Board Practicals
- Marine Electrotechnics

GENERAL DETAILS

Duration
4 years

Study load
240 ECTS credits (including the bachelor's thesis). One credit is equivalent to a study load of 25-30 hours.

Delivery
Face-to-face

Fees and grants
Approximate fees per academic year: €2,551 (€3,826 for non-EU residents). Consult the public fees system based on income (grants and payment options).

Official degree
Recorded in the Ministry of Education's degree register

ADMISSION

Places
40

Registration and enrolment
What are the requirements to enrol in a bachelor's degree course?

Legalisation of foreign documents
All documents issued in non-EU countries must be legalised and bear the corresponding apostille.
DOUBLE-DEGREE AGREEMENTS

Double-degree pathways at a single school
- Bachelor’s degree in Marine Technologies + bachelor’s degree in Naval Systems and Technology Engineering

PROFESSIONAL OPPORTUNITIES

Professional opportunities
- Management and coordination of activities related to production, operation, maintenance and repair of power plants and industrial facilities.
- Technical and management positions at thermal and nuclear power plants.
- Maintenance management in maritime and industrial facilities.
- Technical and management positions with shipyards, shipbuilders and shipping companies.
- Customs supervision.
- Drafting and development of technical projects and reports.
- Inspection and certification of civilian vessels.
- Average adjustment.
- Projects related to quality, the environment, maritime safety, and occupational hazard prevention.
- Teaching.

ORGANISATION

Academic calendar
General academic calendar for bachelor’s, master’s and doctoral degrees courses

Academic regulations
Academic regulations for bachelor’s degree courses at the UPC

Language certification and credit recognition
Queries about language courses and certification

Barcelona School of Nautical Studies (FNB)

CURRICULUM

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**FIFTH SEMESTER**

- Automatic Regulation and Control             | 6            | Compulsory |
- Marine Pollution Prevention and Sustainability | 6            | Compulsory |
- Maritime Legislation                          | 3            | Compulsory |
- Maritime Safety & Security                    | 6            | Compulsory |
- Propulsion                                   | 4.5          | Compulsory |
- Refrigeration and Air Conditioning Facilities | 4.5          | Compulsory |

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**SIXTH SEMESTER**

- Internal Combustion Engines                  | 9            | Compulsory |
- Marine Turbomachines and Steam Generators    | 9            | Compulsory |
- Operation and Maintenance of Marine Engines and Systems | 6 | Compulsory |

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September 2019. **UPC. Universitat Politècnica de Catalunya · BarcelonaTech**