

marine engineering

full time - bachelor's degree

First course

First Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|---------------------------|------------------------------------|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Basics of Information Technologies | 40 | | |
| 2 | Mathematics, p. 1 | 60 | X | |
| 3 | Engineering Graphics | 60 | | X |
| 4 | Material Science | 60 | X | |
| 5 | Seamanship Practice | 30 | | X |
| 6 | Physical Training and Sport | 15 | | X |
| Elective Courses | | | | |
| 1 | Organizational Behaviour | 45 | | X |
| 2 | Psychology of maritime activity | 45 | | X |
| Optional Courses | | | | |
| 1 | Swimming | 15 | | |

Second Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|-----------------------------|---|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Basics of Information Technologies | 20 | | X |
| 2 | Mathematics, p. 2 | 60 | X | |
| 3 | Mechanics for Engineers | 45 | X | |
| 4 | Physics | 45 | | X |
| 5 | Elementary First Aid | 16 | | X |
| 6 | Proficiency in Personal Survival Techniques | 16 | | X |
| 7 | Fire Prevention and Fire Fighting | 15 | | X |
| 8 | Personal Safety and Social Responsibilities | 14 | | X |
| 9 | English Language | 45 | | X |
| 10 | Physical Training and Sport | 15 | | X |
| 11 | Ship Security (ISPS Code) | 15 | | X |
| Elective Courses | | | | |
| 1 | Introduction to Microeconomics | 30 | | X |
| 2 | Mathematical Modelling Software | 30 | | X |
| 3 | Information technology in the Internet | 20 | | X |
| 4 | Fundamentals of Economic Theory | 20 | | X |
| Optional Courses | | | | |
| 1 | Fundamentals of sailing | 15 | | |
| 2 | Swimming | 15 | | |
| Educational practice | | | | |
| 1 | Basic engineering practice | 60 | | X |

Second course

Third Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|---------------------------|--|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Mathematics, p. 3 | 30 | | X |
| 2 | Fluid Mechanics | 60 | X | |
| 3 | Mechanics of Materials | 75 | X | |
| 4 | Fundamentals of Electrical Engineering | 45 | X | |
| 5 | Engineering Technology in Ship Maintenance | 30 | | X |
| 6 | Physical Training and Sport | 15 | | |
| 7 | English Language | 45 | | |
| 8 | Mechanics for Engineers | 45 | X | |
| 9 | Industrial Chemistry | 45 | | X |
| Optional Courses | | | | |
| 1 | Fundamentals of sailing | 15 | | |
| 2 | Swimming | 15 | | |

Fourth Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|-----------------------------|-------------------------------------|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Machine Elements and Deck Machinery | 75 | X | |
| 2 | Marine Environment Protection | 30 | | X |
| 3 | Electromechanics | 60 | X | |
| 4 | Power Electronics | 45 | | X |
| 5 | Technology of Engineering Materials | 90 | X | |
| 6 | Physical Training and Sport | 15 | | X |
| 7 | English Language | 45 | X | |
| Optional Courses | | | | |
| 1 | Fundamentals of sailing | 15 | | |
| 2 | Swimming | 15 | | X |
| Educational practice | | | | |
| 1 | Technological-engineering | 150 | | X |

Third course

Fifth Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|---------------------------|---|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Thermodynamics | 60 | X | |
| 2 | Marine Auxiliary Machinery and Systems, p.1 | 75 | X | |
| 3 | Maintenance and Repair of Shipboard Electrical Equipment, p.1 | 40 | | X |
| 4 | Engineering Technology in Ship Maintenance | 30 | | X |
| 5 | Exploitation of Maritime Zones | 26 | | X |
| 6 | Ship Theory and Construction | 60 | X | |
| 7 | English Language | 45 | | X |
| 8 | Marine Boilers | 75 | X | |
| 9 | Marine systems for low flash point fuels | 45 | X | |
| Optional Courses | | | | |
| 1 | Rowing-sailing trips | 15 | | X |
| 2 | Sports games | 15 | | |

Sixth Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|-----------------------------|--|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Marine Diesel Engines, p.2 | 75 | X | |
| 2 | Marine Turbines | 60 | X | |
| 3 | Automatic Control of Ship Power Plants (2) | 60 | X | |
| 4 | Maintenance and Repair of Shipboard Electrical Equipment, p. 2 | 60 | X | |
| 5 | English Language | 45 | | |
| 6 | Engine Team and Resource Management | 40 | | X |
| Optional Courses | | | | |
| 1 | Sports games | 15 | | |
| Educational practice | | | | |
| 1 | On Board Practice | 568 | | X |

Fourth course

Seventh Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|---------------------------|--|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Marine Diesel Engines, p.2 | 75 | X | |
| 2 | Marine Turbines | 60 | X | |
| 3 | Automatic Control of Ship Power Plants (2) | 60 | X | |
| 4 | Maintenance and Repair of Shipboard Electrical Equipment, p. 2 | 60 | X | |
| 5 | Engineering Technology in Ship Maintenance | 15 | | X |
| 6 | English Language | 45 | X | |
| 7 | Engine Team and Resource Management | 40 | | X |
| Optional Courses | | | | |
| 1 | Sports games | 15 | | |

Eight Semester

| Nº | Courses | Hours | Final Exam | Ongoing Assessment |
|-----------------------------|--|-------|------------|--------------------|
| Compulsory courses | | | | |
| 1 | Ship Power Plants Exploitation | 68 | X | |
| 2 | Ship Maintenance and Repair | 90 | X | |
| 3 | Ship Seaworthiness | 45 | | X |
| 4 | English Language | 45 | | |
| 5 | Operation of Main and Auxiliary Machinery and Associated Control Systems | 45 | | X |
| Optional Courses | | | | |
| 1 | Sports games | 15 | | X |
| Educational practice | | | | |
| 1 | Maintenance and Repair Practice | 66 | | X |

English Language Intensive Course