

# INFORMATION ON THE MARITIME ENGINEERING STUDY PROGRAMME

Version (valid from): 2024-1 (01.10.2024)

## Basic information

Programme name	<b>Marine Engineering</b>
Programme features	
Type	higher professional education
Rate	first stage
CLASS-SRV	Higher professional education (first Bologna degree)/higher professional education (first Bologna degree) (16203)
ISCED	<ul style="list-style-type: none"> <li>transport services (84)</li> </ul>
CLASS-P	<ul style="list-style-type: none"> <li>Transport (conveyance) services (other) (8409)</li> </ul>
CLASS-P-16	<ul style="list-style-type: none"> <li>Motor vehicles, ships and aircraft (0716)</li> </ul>
Frascati	<ul style="list-style-type: none"> <li>Technical sciences (2)</li> </ul>
Raven SOK	Raven SOK 7
Raven EOC	Raven EOK 6
Raven EOVK	First stage
Areas/modules/targets	<ul style="list-style-type: none"> <li>General direction (direction)</li> <li>Military direction (direction)</li> <li>No articulation (study programme)</li> </ul>
Members of the University of Ljubljana	Faculty of Maritime Studies and Transport, Pot pomorščakov 4, 6320 Portorož, Slovenia
Duration (years)	3
Number of KT per year	60
Study delivery methods	full-time, part-time

## The main objectives of the programme

### General direction:

The main objective of the higher professional study programme Marine Engineering is to educate professionally competent and technically aware experts in the field of mechanical engineering, with an emphasis on theoretical and practical competence in the management, operation and maintenance of mechanical and power systems on ships and in comparable industries at managerial level. The entire training programme is based on the requirements of the STCW Convention, adopted by the International Maritime Organization (IMO) in 1978 and last revised in 2018 (all IMO Member States are signatories to the STCW Convention), and on the guidelines of the engineering association FEANI.

The programme provides the graduate with the knowledge, skills and competences that are the globally and European agreed credible criteria for the title of Officer in Charge of Engine Watch on ships with propulsion machinery of 750 kW propulsion power or more, and 1st Officer in Charge of Machinery or Machinery Manager on ships with propulsion machinery of 3000 kW propulsion power or more. The appropriate choice of subjects will enable the graduate to acquire the knowledge, skills and abilities to work in a managerial capacity in the machinery and power systems of comparable industrial and service establishments.

The study programme is aimed primarily at high school graduates who want to train for highly professional jobs in the field of marine engineering, but who do not have the inclination towards research and theoretical studies typical of university education.

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### Military direction:

Officer education is one of the building blocks of the rapidly and intensively evolving work of the armed forces. Studying at the Military Studies Course enables graduates to acquire basic professional competences in the field of officer work, as well as competences for other work in the field of military management and, of course, to

transfer theoretical knowledge in the field of naval engineering to their future practice. The first objective of the study programme in the Military Studies is to acquire the knowledge, skills and competences in the field of military sciences, which are the prerequisites for the title of officer. The second objective of the Military Studies programme is to acquire specific skills in the field of warfare and military leadership and tactical problem solving. The programme provides the graduate with a broad knowledge enabling him/her to acquire the following competences: optimisation of his/her tasks in accordance with the requirements of STCW and FEANI and the findings in the field of naval engineering, responsibility for the performance of the direct duties of officers in the basic duties of a platoon commander, the ability to manage and lead the work processes and training of a team, the ability to command, the ability to inspire and motivate and to make decisions, the ability to identify the resulting tasks in the accomplishment of the mission and the ability to lead the troops in such a way that he/she is able to confront the situation and to formulate a tactical solution. The skills developed by the graduate will enable him/her to find employment within the Slovenian Armed Forces.

## **General competences (learning outcomes)**

### **General direction:**

A marine engineer is a professional who must have a good knowledge of the environment of his/her chosen field, individual skills such as communication and foreign language skills, the ability to write a wide range of professional reports, teamwork and concrete problem-solving skills.

The general competences acquired through the Marine Engineering study programme are:

- the responsibility for the direct duties of a ship's engine officer on board a ship or an engine-room superintendent in an engine-room with a propulsion power greater than 3 000 kW, or managerial work in a comparable industrial or service establishment,
- an understanding of the standards of watchkeeping in a manned or periodically unmanned engine-room prescribed by the STCW Code or the working standards in a comparable industrial establishment under the FEANI Guidelines,
- understanding and use of working maritime language (maritime English) and argumentative and negotiation skills that give a particular comparative advantage,
- competence in the tasks assigned to them for the handling of equipment essential for the safe operation and maintenance of ship propulsion and shipboard power systems, whether on board or ashore, in emergency situations or for the prevention of pollution of the sea and coastline,
- understanding and respect for cultural diversity,
- planning and implementing strategies in engineering services in companies and organisations,
- managing relations between the ship's top management and the engine room staff,
- identifying and analysing employee attitudes and satisfaction,
- Ensuring the implementation of the company's policies and programmes on safety and health in the engine room,
- help resolve organisational problems on board, conflicts between engine room staff or within the company,
- Accepting a wide range of interdisciplinary expertise in ship propulsion subsystems and industrial power systems management, natural sciences, management, information and communication technology, law, environmental science and other fields,
- directly taking on work tasks in practice and, by mastering additional theoretical and methodological content, continuing direct study at second level,
- apply theoretical knowledge independently to solve practical problems in practice,
- expert analysis and synthesis of solutions and implications in nautical and maritime processes and in specific processes in comparable industries,
- Continuous monitoring of new skills in the process of lifelong learning,
- understanding the interdependence between maritime technology and the technical characteristics of means of transport and maritime infrastructure,
- taking and resolving environmental and protective measures in the work environment,
- teamwork, communication skills and the development of professional ethics in the highly complex business of transport and transport services.

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**Military direction:**

The general part of the programme is taught in the same way as in the General Course. The competences foreseen for the acquisition of competences in mechanical engineering are related in the same way to the requirements of the STCW Convention and the FEANI guidelines mentioned in the General Track.

**Subject-specific competences (learning outcomes)**

**General direction:**

The set of subject-specific competences acquired through the Marine Engineering programme enables:

1. to successfully perform the tasks encountered by the ship's engineer officer and the company's engineer officer in the course of their work,
2. the ability to handle large power installations both on different types of ships and ashore,
3. the acquisition of knowledge in the preparation, management and maintenance of ship propulsion, including knowledge of:

- optimum operation of the energy system,
- the economics of maritime businesses,
- ordering and storing spare parts,
- strategic servicing of components,
- maintaining hardware documentation;

acquiring the knowledge to develop energy support systems, including:

- electricity generation and distribution
- Compressing air to power tools, machines, automation and control technology,
- Generating and consuming steam economically,
- storage, treatment and preparation of fuels and lubricants,
- cooling of energy systems using different heat exchangers,
- treatment of faecal and oily water,
- generation, treatment and distribution of drinking water,
- hydraulic systems;

acquiring the knowledge to handle and maintain mooring, cargo and other deck equipment, such as:

- anchoring and lashing winches,
- freight benches with associated equipment, freight cranes,
- pipelines, valves and various pumps in the cargo handling system,
- systems for opening, closing and sealing warehouses,
- ventilation, cooling/heating and air-conditioning systems for storage and living areas,
- use of inert gases;

acquiring knowledge in shipboard safety:

- fire risk and fire management,
- survival at sea,
- Search and rescue at sea,
- ballasting operations on board,
- hull loads and the stability of the ship when underway or aground,
- Preventing and responding to pollution from ships.

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**Military direction:**

The subject-specific competences acquired are in the fields of marine engineering and military science.

In military education, students acquire the following subject-specific competences:

- the acquisition of knowledge and knowledge already defined in the General Course in the fields of organisation and execution of engineering services on board and in production processes, and the ability to integrate findings in these fields from the civilian sphere into the military sphere;
- acquisition of fundamental knowledge in military subjects, enabling their implementation in core professional and orientation subjects for the study and solution of military tasks, the implementation of processes for planning and conducting military operations in the national and international environment, in peace and war, and the evaluation and planning of the use of military capabilities and weapon systems;
- acquisition of fundamental and applied knowledge in the fields of military operations (tactics, operations), military geography and military technology of weapon systems, enabling tactical problem solving, organisation of combat and non-combat operations, critical evaluation and planning of the use of military capabilities and weapon systems;
- acquisition of fundamental and applied knowledge in the subjects of basic military leadership, command and control, military didactics, military psychology and military sociology, enabling their implementation in the processes of human resources management, the performance of military professional tasks in the field of leadership and command, and the conduct of military training of units in a safe, reliable and rational manner;
- acquire specific knowledge of military strategy, military history, military policy, military, military law, military law of war and humanitarian law, and the forms of institutional functioning of military institutions;
- acquisition of specific skills in military research methods, military problem solving in tactical unit operations, logistics and supply, and the basics of operational research methods and modelling of tactical solutions;
- acquiring the necessary knowledge and basic skills in the field of military sciences for a quality integration into a military organisation and starting a career as an SAF officer.

## **Conditions for enrolment**

### **General and Military:**

Admission to the first cycle higher professional degree programme in Marine Engineering is open to students who have passed the final examination in any four-year upper secondary education programme, the vocational baccalaureate or the general baccalaureate.

### **Selection criteria in the event of an enrolment limitation**

If a decision is taken to limit enrolment, applicants will be selected on the basis of:

- General pass mark in the final exam, the vocational baccalaureate or the matriculation diploma: 60%,
- General passes in the 3rd and 4th years: 40% points.

## **Criteria for the recognition of knowledge and skills acquired before entry to the programme**

### **General direction:**

Students may be awarded credit for knowledge which corresponds in content to the subjects taught in the Maritime Engineering study programme and which has been acquired in various forms of education. The decision on the recognition of knowledge and skills acquired prior to enrolment is made by the UL FPP Student Affairs Committee on the basis of a written application from the student, attached certificates and other documents proving the successfully acquired knowledge and the content of these skills.

The following criteria will be taken into account by the UL FPP Student Affairs Committee in the recognition of knowledge acquired prior to enrolment:

- the suitability of the entry requirements for the different forms of education (prior qualifications required for entry),
- the comparability of the level of education (number of hours of prior learning in relation to the level of the course) at which the obligation is recognised,
- the relevance of the content of the training to the content of the course in which the credit is given.

The knowledge acquired may be recognised as a requirement if the prerequisite for enrolment in the course was at least upper-secondary education, if the previous education covered at least 75% of the subject content and if at least 75% of the content corresponds to that of the course in which the study requirement is recognised. In

the event that the Board finds that the knowledge acquired can be recognised, this will be weighted by the same number of ECTS as the number of ECTS in the course.

A specific example of the recognition of skills acquired prior to enrolment is the recognition of the course "Professional Practice for Mechanical Engineers" if the student has been regularly employed for at least one year in a maritime organisation or government administration in the maritime sector. In this case, the employment must be proven by an appropriate document showing the duration of the employment and the activities of the organisation.

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#### **Military direction:**

A candidate/student may be awarded credit for a subject from the set of subjects in semester 6, depending on the knowledge documented in the various forms of professional education prior to the start of the military course.

### **Assessment methods**

The methods of assessment are in accordance with the [UL Statutes](#) and specified in the curricula.

### **Conditions for progression through the programme**

A student may enrol in a higher year if, by the end of the academic year, he or she has completed all the requirements set out in the study programme for enrolment in the higher year, and before enrolling in the third or higher year, he or she must also have completed all the requirements of the year prior to the year in which he or she is currently enrolled.

#### **Students must have the following number of ECTS to be admitted to the upper year:**

- a minimum of 50 ECTS from the first year of the programme must have been achieved in order to be admitted to the second year of the programme,
- 60 ECTS from the first year and at least 50 ECTS from the second year to enter the third year.

#### **Exceptional progression to the next year.**

The UL FPP Committee for Academic Affairs may exceptionally grant promotion to:

- 2nd year to a student who has achieved at least 40 ECTS in the 1st year, or in
- 3rd year to a student who has achieved a total of at least 100 ECTS in the 1st and 2nd year (60 ECTS in the 1st year and 40 ECTS in the 2nd year), provided that the student has justifiable reasons for the exceptional progression.

Justifiable reasons are those set out in the Statutes of the University of Ljubljana.

#### **Students must have to repeat:**

- a minimum of 20 ECTS in the first year,
- in the second year, 60 ECTS from the first year and at least 20 ECTS from the second year.

### **Conditions for switching between programmes**

#### **General direction:**

Transfers between programmes are governed in accordance with the applicable Criteria for Transfers between Degree Programmes. Student applications for transfer between programmes are decided by the UL FPP Senate on the proposal of the Academic Affairs Committee in accordance with the procedure laid down in the UL Statutes. The Academic Affairs Committee determines for each candidate separately the extent to which it recognises the study requirements already completed, determines the requirements and specifies the year to which the candidate may transfer.

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**Military direction:**

- Transfer from General to Military Studies is possible according to the criteria for transitions between first cycle study programmes at the FPP.
- Candidates enrolled in study programmes in the fields of naval engineering or nautical engineering which, at the end of their studies, provide for the acquisition of comparable competences and which, according to the recognition criteria, provide for the recognition of at least half of the ECTS requirements from the first study programme which relate to the compulsory subjects of the second study programme.
- The recognition process identifies the study requirements that students have already fulfilled, which may be fully or partially recognised, and the study requirements they must fulfil in order to complete their studies under another study programme.

**Conditions for completing your studies**

To complete the degree, students must complete all the requirements for all the courses they have enrolled in and produce and defend a thesis.

**Conditions for completion of the individual parts of the programme, if contained in the programme**

The study is uniform.

**Professional, scientific or artistic title (English title and abbreviation)**

- Bachelor of Applied Science (B.A.Sc.)

## STUDY PROGRAMME CURRICULUM MARINE ENGINEERING

2024/2025

Name of study programme	<b>Marine Engineering</b>
Programme characteristics	
Type	higher professional
Cycle	bachelor
University of Ljubljana members	Faculty of Maritime Studies and Transport, Pot pomorščakov 4, 6320 Portorož, Slovenija

General direction (direction/track)

Year 1, obvezni predmeti

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0623012	Mathematics for engineers 1	Aleksej Turnšek	30	0	30	0	0	60	120	4	1st semester	no
2.	0130389	Maritime and Commercial Law	Marko Pavliha	30	30	0	0	0	60	120	4	1st semester	no
3.	0130340	Engineering Graphics and Ship Documentation	Peter Vidmar	30	0	30	0	0	60	120	4	1st semester	no
4.	0130341	Ship Theory I	Aleksander Grm, Valter Suban	60	0	30	0	0	90	180	6	1st semester	no
5.	0130342	Maritime English	Violeta Jurković	45	0	30	0	0	75	150	5	1st semester	no
6.	0130393	Mechanics and Hydromechanics	Milan Batista	45	0	30	0	0	75	150	5	1st semester	no
7.	0130351	Computer and Information Science	Evelin Krmac	45	0	30	0	0	75	150	5	2nd semester	no
8.	0130394	Materials and Welding	Peter Vidmar	30	0	30	0	0	60	120	4	2nd semester	no

9.	0623878	Engineering physics	Aleksander Grm	30	0	30	0	0	60	120	4	2nd semester	no
10.	0130344	Electrical Energy Use on Ship	Franc Dimc	45	0	30	0	15	90	180	6	2nd semester	no
11.	0130397	Thermodynamics and Ship Energy Management	Blaž Luin	45	0	30	0	0	75	150	5	2nd semester	no
12.	0130345	Seamanship	Peter Vidmar	45	15	45	0	0	120	225	8	2nd semester	no
Total				480	45	345	0	15	900	1785	60		

### Year 2, obvezni predmeti

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0624099	Mathematics for engineers 2	Aleksej Turnšek	45	0	30	0	0	75	150	5	1st semester	no
2.	0130403	Construction Elements	Peter Vidmar	45	15	30	0	0	90	180	6	1st semester	no
3.	0624352	Numerical methods in engineering	Aleksej Turnšek, Milan Batista	30	15	30	0	0	75	150	5	1st semester	no
4.	0130405	Fuels, Lubricants and Water	Oliver Bajt	45	0	15	0	15	75	150	5	1st semester	no
5.	0130406	Control and Automation	Franc Dimc	45	15	30	0	0	90	180	6	1st semester	no
6.	0130355	Marine Propulsion Engines	Denis Romih	45	0	30	0	0	75	150	5	1st semester	no
7.	0130356	Maritime Personnel Management	Andrej Androjna, Matija Svetina	30	15	30	0	0	75	150	5	2nd semester	no
8.	0130407	Marine Engineering English	Violeta Jurković	45	0	30	0	0	75	150	5	2nd semester	no

9.	0130408	Movers, Refrigeration and Auxiliary Machinery	Peter Vidmar	45	15	30	0	0	90	180	6	2nd semester	no
10.	0624359	Engineering mechanics 2	Milan Batista	30	0	30	0	0	60	120	4	2nd semester	no
11.	0130410	Engine Room Watch-Keeping	Marko Perkovič	45	0	30	0	0	75	150	5	2nd semester	no
12.	0130360	Ship Maintenance	Marko Perkovič	30	0	15	0	0	45	90	3	2nd semester	no
Total				480	75	330	0	15	900	1800	60		

### Year 3, obvezni predmeti

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0130404	Steam and Gas Power System	Peter Vidmar	45	0	30	0	0	75	150	5	1st semester	no
2.	0624700	Hydraulics and pneumatics	Franc Majdič, Peter Vidmar	45	0	30	0	0	75	150	5	1st semester	no
3.	0130411	Professional Practice for Engineers (SS)	Peter Vidmar	5	0	0	0	200	35	240	8	2nd semester	no
4.	0130412	Thesis (SS)		0	0	0	0	150	150	300	10	2nd semester	no
5.	0147015	Izbirni strokovni predmet		30	15	30	0	0	75	150	5	1st semester	yes
6.	0147016	Izbirni strokovni predmet		30	15	30	0	0	75	150	5	1st semester	yes
7.	0147017	Izbirni strokovni predmet / Splošni izbirni predmet		30	15	30	0	0	75	150	5	1st semester	yes
8.	0147018	Splošni izbirni predmet		30	0	45	0	0	75	150	5	1st semester	yes

9.	0130343	Safety on Ship	Andrej Androjna	45	15	30	0	0	90	180	6	2nd semester	no
10.	0130302	Engineering Measurements	Franc Dimc	30	15	45	0	0	90	180	6	2nd semester	no
Total				290	75	270	0	350	815	1800	60		

Year 3, Izbirni strokovni predmet

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0130301	Ship Propulsion and Manoeuvrability	Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
2.	0140080	Maritime Information Systems	Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
3.	0130305	Naval Vessel's Combat Systems	Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130303	Tankers	Damjan Hostnikar, Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
5.	0624916	Ships vibrations	Aleksander Grm	30	15	30	0	0	75	150	5	1st semester	yes
Total				150	75	150	0	0	375	750	25		

Year 3, Izbirni strokovni predmet/Splošni izbirni predmet

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0130317	Ro-Ro and Passenger Ships	Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
2.	0130792	Sailing	Peter Vidmar	30	0	45	0	0	75	150	5	1st semester	yes

3.	0130363	Maritime Transportation System	Elen Twrdy	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130364	Maritime economics and business of shipping companies	Marina Zanne	45	10	20	0	0	75	150	5	1st semester	yes
Total				135	40	125	0	0	300	600	20		

### Military direction (direction/track)

#### Year 1, Obvezni predmeti/Compulsory courses

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0623012	Mathematics for engineers 1	Aleksej Turnšek	30	0	30	0	0	60	120	4	1st semester	no
2.	0130389	Maritime and Commercial Law	Marko Pavliha	30	30	0	0	0	60	120	4	1st semester	no
3.	0130340	Engineering Graphics and Ship Documentation	Peter Vidmar	30	0	30	0	0	60	120	4	1st semester	no
4.	0130341	Ship Theory I	Aleksander Grm, Valter Suban	60	0	30	0	0	90	180	6	1st semester	no
5.	0130342	Maritime English	Violeta Jurković	45	0	30	0	0	75	150	5	1st semester	no
6.	0130393	Mechanics and Hydromechanics	Milan Batista	45	0	30	0	0	75	150	5	1st semester	no
7.	0130351	Computer and Information Science	Evelin Krmac	45	0	30	0	0	75	150	5	2nd semester	no
8.	0130394	Materials and Welding	Peter Vidmar	30	0	30	0	0	60	120	4	2nd semester	no
9.	0623878	Engineering physics	Aleksander Grm	30	0	30	0	0	60	120	4	2nd semester	no
10.	0130344	Electrical Energy Use on Ship	Franc Dimc	45	0	30	0	15	90	180	6	2nd semester	no

11.	0130397	Thermodynamics and Ship Energy Management	Blaž Luin	45	0	30	0	0	75	150	5	2nd semester	no
12.	0130345	Seamanship	Peter Vidmar	45	15	45	0	0	120	225	8	2nd semester	no
Total				480	45	345	0	15	900	1785	60		

#### Year 2, Obvezni predmeti/Compulsory courses

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0624099	Mathematics for engineers 2	Aleksej Turnšek	45	0	30	0	0	75	150	5	1st semester	no
2.	0130403	Construction Elements	Peter Vidmar	45	15	30	0	0	90	180	6	1st semester	no
3.	0624352	Numerical methods in engineering	Aleksej Turnšek, Milan Batista	30	15	30	0	0	75	150	5	1st semester	no
4.	0130405	Fuels, Lubricants and Water	Oliver Bajt	45	0	15	0	15	75	150	5	1st semester	no
5.	0130406	Control and Automation	Franc Dimc	45	15	30	0	0	90	180	6	1st semester	no
6.	0130355	Marine Propulsion Engines	Denis Romih	45	0	30	0	0	75	150	5	1st semester	no
7.	0130356	Maritime Personnel Management	Andrej Androjna, Matija Svetina	30	15	30	0	0	75	150	5	2nd semester	no
8.	0130408	Movers, Refrigeration and Auxiliary Machinery	Peter Vidmar	45	15	30	0	0	90	180	6	2nd semester	no
9.	0624359	Engineering mechanics 2	Milan Batista	30	0	30	0	0	60	120	4	2nd semester	no
10.	0130410	Engine Room Watch-Keeping	Marko Perkovič	45	0	30	0	0	75	150	5	2nd semester	no

11.	0130360	Ship Maintenance	Marko Perkovič	30	0	15	0	0	45	90	3	2nd semester	no
12.	0640056	Safety on Ship (VS)	Andrej Androjna	45	0	30	0	0	75	150	5	2nd semester	no
Total				480	75	330	0	15	900	1800	60		

### Year 3, Obvezni predmeti/Compulsory courses

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0130404	Steam and Gas Power System	Peter Vidmar	45	0	30	0	0	75	150	5	1st semester	no
2.	0624700	Hydraulics and pneumatics	Franc Majdič, Peter Vidmar	45	0	30	0	0	75	150	5	1st semester	no
3.	0147015	Izbirni strokovni predmet		30	15	30	0	0	75	150	5	1st semester	yes
4.	0147016	Izbirni strokovni predmet		30	15	30	0	0	75	150	5	1st semester	yes
5.	0147017	Izbirni strokovni predmet / Splošni izbirni predmet		30	15	30	0	0	75	150	5	1st semester	yes
6.	0147018	Splošni izbirni predmet		30	0	45	0	0	75	150	5	1st semester	yes
7.	0640051	Military operations	Andrej Androjna	80	50	40	0	0	100	270	9	2nd semester	no
8.	0640052	Military management, leadership and military ethics	Andrej Androjna	60	40	40	0	0	100	240	8	2nd semester	no
9.	0640053	Military defense systems	Andrej Androjna	40	30	0	0	0	80	150	5	2nd semester	no
10.	0640069	Professional Practice for Engineers (VS)	Peter Vidmar	5	0	0	0	0	85	90	3	2nd semester	no
11.	0640070	Thesis (VS)		0	0	0	0	0	150	150	5	2nd semester	no

	Total	395	165	275	0	0	965	1800	60	
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Year 3, Izbirni strokovni predmeti/Professional elective courses

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0130301	Ship Propulsion and Manoeuvrability	Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
2.	0140080	Maritime Information Systems	Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
3.	0130305	Naval Vessel's Combat Systems	Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130303	Tankers	Damjan Hostnikar, Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
5.	0624916	Ships vibrations	Aleksander Grm	30	15	30	0	0	75	150	5	1st semester	yes
Total				150	75	150	0	0	375	750	25		

Year 3, Splošni izbirni predmeti/General elective courses

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0130317	Ro-Ro and Passenger Ships	Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
2.	0130792	Sailing	Peter Vidmar	30	0	45	0	0	75	150	5	1st semester	yes
3.	0130363	Maritime Transportation System	Elen Twrdy	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130364	Maritime economics and business of shipping companies	Marina Zanne	45	10	20	0	0	75	150	5	1st semester	yes

	Total	135	40	125	0	0	300	600	20	
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