

STUDY PROGRAMME CURRICULUM MARINE ENGINEERING

2023/2024

Name of study programme	Marine Engineering
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, compulsory

	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	prof. dr. Aleksej Turnšek	30	0	30	0	0	60	120	4	1st semester	no
2.	0130389	Maritime and Commercial Law	prof. dr. Marko Pavliha	30	30	0	0	0	60	120	4	1st semester	no
3.	0130340	Engineering Graphics and Ship Documentation	izr. prof. dr. Peter Vidmar	30	0	30	0	0	60	120	4	1st semester	no
4.	0130341	Ship Theory I	doc. dr. Aleksander Grm, mag. Valter Suban, viš. pred.	60	0	30	0	0	90	180	6	1st semester	no
5.	0130342	Maritime English	izr. prof. dr. Violeta Jurković	45	0	30	0	0	75	150	5	1st semester	no
6.	0130393	Mechanics and Hydromechanics	prof. dr. Milan Batista	45	0	30	0	0	75	150	5	1st semester	no

7.	0130351	Computer and Information Science	izr. prof. dr. Evelin Krmac	45	0	30	0	0	75	150	5	2nd semester	no
8.	0130394	Materials and Welding	izr. prof. dr. Peter Vidmar	30	0	30	0	0	60	120	4	2nd semester	no
9.	0623878	Engineering physics	doc. dr. Aleksander Grm	30	0	30	0	0	60	120	4	2nd semester	no
10.	0130344	Electrical Energy Use on Ship	doc. dr. Franc Dimc	45	0	30	0	15	90	180	6	2nd semester	no
11.	0130397	Thermodynamics and Ship Energy Management	doc. dr. Aleksander Grm	45	0	30	0	0	75	150	5	2nd semester	no
12.	0130345	Seamanship	izr. prof. dr. Peter Vidmar	45	15	45	0	0	120	225	8	2nd semester	no
Total				480	45	345	0	15	900	1785	60		

Year 2, compulsory

	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	prof. dr. Aleksej Turnšek	45	0	30	0	0	75	150	5	1st semester	no
2.	0130403	Construction Elements	izr. prof. dr. Peter Vidmar	45	15	30	0	0	90	180	6	1st semester	no
3.	0624352	Numerical methods in engineering	prof. dr. Aleksej Turnšek, prof. dr. Milan Batista	30	15	30	0	0	75	150	5	1st semester	no
4.	0130405	Fuels, Lubricants and Water	izr. prof. dr. Oliver Bajt	45	0	15	0	15	75	150	5	1st semester	no
5.	0130406	Control and Automation	doc. dr. Franc Dimc	45	15	30	0	0	90	180	6	1st semester	no

6.	0130355	Marine Propulsion Engines	mag. Denis Romih, pred.	45	0	30	0	0	75	150	5	1st semester	no
7.	0130356	Maritime Personnel Management	doc. dr. Andrej Androjna, prof. dr. Matija Svetina	30	15	30	0	0	75	150	5	2nd semester	no
8.	0130407	Marine Engineering English	izr. prof. dr. Violeta Jurković	45	0	30	0	0	75	150	5	2nd semester	no
9.	0130408	Movers, Refrigeration and Auxiliary Machinery	izr. prof. dr. Peter Vidmar	45	15	30	0	0	90	180	6	2nd semester	no
10.	0624359	Engineering mechanics 2	prof. dr. Milan Batista	30	0	30	0	0	60	120	4	2nd semester	no
11.	0130410	Engine Room Watch-Keeping	doc. dr. Marko Perkovič	45	0	30	0	0	75	150	5	2nd semester	no
12.	0130360	Ship Maintenance	doc. dr. Marko Perkovič	30	0	15	0	0	45	90	3	2nd semester	no
Total				480	75	330	0	15	900	1800	60		

Year 3, compulsory

	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	izr. prof. dr. Peter Vidmar	45	0	30	0	0	75	150	5	1st semester	no
2.	0624700	Hydraulics and pneumatics	Franc Majdič, izr. prof. dr. Peter Vidmar	45	0	30	0	0	75	150	5	1st semester	no

3.	0130411	Professional Practice for Engineers (SS)	izr. prof. dr. 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	Programme related elective		30	15	30	0	0	75	150	5	1st semester	yes
6.	0147016	Programme related elective		30	15	30	0	0	75	150	5	1st semester	yes
7.	0147017	Programme related elective / 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	doc. dr. Andrej Androjna	45	15	30	0	0	90	180	6	2nd semester	no
10.	0130302	Engineering Measurements	doc. dr. Franc Dimc	30	15	45	0	0	90	180	6	2nd semester	no
Total				290	75	270	0	350	815	1800	60		

Year 3, Programme related elective

	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	doc. dr. Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
2.	0140080	Maritime Information Systems	doc. dr. Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
3.	0130305	Naval Vessel's Combat Systems	doc. dr. Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130303	Tankers	Damjan Hostnikar, pred., doc. dr. Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes

5.	0624916	Ships vibrations	doc. dr. Aleksander Grm	30	15	30	0	0	75	150	5	1st semester	yes
Total				150	75	150	0	0	375	750	25		

Year 3, Programme related elective/Discipline related elective

	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	doc. dr. Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
2.	0130792	Sailing	izr. prof. dr. Peter Vidmar	30	0	45	0	0	75	150	5	1st semester	yes
3.	0130363	Maritime Transportation System	prof. dr. Elen Twrdy	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130364	Maritime economics and business of shipping companies	izr. prof. dr. 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, Compulsory

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
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1.	0623012	Mathematics for engineers 1	prof. dr. Aleksej Turnšek	30	0	30	0	0	60	120	4	1st semester	no
2.	0130389	Maritime and Commercial Law	prof. dr. Marko Pavliha	30	30	0	0	0	60	120	4	1st semester	no
3.	0130340	Engineering Graphics and Ship Documentation	izr. prof. dr. Peter Vidmar	30	0	30	0	0	60	120	4	1st semester	no

4.	0130341	Ship Theory I	doc. dr. Aleksander Grm, mag. Valter Suban, viš. pred.	60	0	30	0	0	90	180	6	1st semester	no
5.	0130342	Maritime English	izr. prof. dr. Violeta Jurković	45	0	30	0	0	75	150	5	1st semester	no
6.	0130393	Mechanics and Hydromechanics	prof. dr. Milan Batista	45	0	30	0	0	75	150	5	1st semester	no
7.	0130351	Computer and Information Science	izr. prof. dr. Evelin Krmac	45	0	30	0	0	75	150	5	2nd semester	no
8.	0130394	Materials and Welding	izr. prof. dr. Peter Vidmar	30	0	30	0	0	60	120	4	2nd semester	no
9.	0623878	Engineering physics	doc. dr. Aleksander Grm	30	0	30	0	0	60	120	4	2nd semester	no
10.	0130344	Electrical Energy Use on Ship	doc. dr. Franc Dimc	45	0	30	0	15	90	180	6	2nd semester	no
11.	0130397	Thermodynamics and Ship Energy Management	doc. dr. Aleksander Grm	45	0	30	0	0	75	150	5	2nd semester	no
12.	0130345	Seamanship	izr. prof. dr. Peter Vidmar	45	15	45	0	0	120	225	8	2nd semester	no
Total				480	45	345	0	15	900	1785	60		

Year 2, Compulsory

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2.	0130403	Construction Elements	izr. prof. dr. Peter Vidmar	45	15	30	0	0	90	180	6	1st semester	no

1.	0130301	Ship Propulsion and Manoeuvrability	doc. dr. Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
2.	0140080	Maritime Information Systems	doc. dr. Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
3.	0130305	Naval Vessel's Combat Systems	doc. dr. Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130303	Tankers	Damjan Hostnikar, pred., doc. dr. Marko Perkovič	30	15	30	0	0	75	150	5	1st semester	yes
5.	0624916	Ships vibrations	doc. dr. Aleksander Grm	30	15	30	0	0	75	150	5	1st semester	yes
Total				150	75	150	0	0	375	750	25		

Year 3, Discipline related elective

				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	doc. dr. Andrej Androjna	30	15	30	0	0	75	150	5	1st semester	yes
2.	0130792	Sailing	izr. prof. dr. Peter Vidmar	30	0	45	0	0	75	150	5	1st semester	yes
3.	0130363	Maritime Transportation System	prof. dr. Elen Twrdy	30	15	30	0	0	75	150	5	1st semester	yes
4.	0130364	Maritime economics and business of shipping companies	izr. prof. dr. Marina Zanne	45	10	20	0	0	75	150	5	1st semester	yes
Total				135	40	125	0	0	300	600	20		