INFORMATION ON THE **TRANSPORT** STUDY PROGRAMME

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

Basic information

Programme name	**Transport**
Programme features	
Type	Master's degree
Rate	second stage
CLASS-SRV	Master's degree (second Bologna cycle)/Master's degree (second Bologna cycle) (17003)
ISCED	• transport services (84)
CLASS-P	• Transport (transport) services (not further specified) (8400)
CLASS-P-16	• Transport (1041)
Frascati	• Technical sciences (2)
Raven SOK	Raven SOK 8
Raven EOC	Raven EOK 7
Raven EOVK	Second stage
Areas/modules/targets	• No articulation (study programme)
Members of the University of Ljubljana	Faculty of Maritime Studies and Transport, Pot pomorščakov 4, 6320 Portorož, Slovenia
Duration (years)	2
Number of KT per year	60
Study delivery methods	full-time, part-time

The main objectives of the programme

The main objective of the second-level postgraduate Master's degree programme "Transport" is to upgrade professional knowledge and competence to solve complex professional and work problems in the field of transport sciences, to develop the ability to communicate within and between disciplines, professional criticality and responsibility, initiative and independence in decision-making and management. The acquired knowledge enables an interdisciplinary understanding of issues, especially transport technologies, transport logistics, transport safety and other processes that ensure the efficient functioning of the transport system.

The proposed study programme enables the creation of a profile of professionals who will be qualified to plan and manage services in accordance with the characteristics of transport, traffic and logistics processes, the operation of transport infrastructure and transport-handling means of integrated transport, and transport safety, in accordance with the technical-technological, natural, geospatial, human resources, legal, economic, information, telecommunications and other conditions of the integrated transport industries.

The knowledge acquired at this level enables students to continue their studies at the doctoral level or to find employment in research and development, transport services, transport, transport logistics and related activities, public administration, business and interest associations, etc.

General competences (learning outcomes)

The general competences to be acquired by the proposed study programme are in the field of transport - transport - transport logistics for the acquisition of competences:

- analysing transport science problems, synthesising knowledge and information, and anticipating potential solutions, their implementation and consequences,
- problem-solving through an interdisciplinary systems approach and analytical thinking, using research methods and diverse sources, and the ability to transfer and apply the knowledge gained to practice,
- integrating the in-depth theoretical and practical knowledge acquired and applying it to existing and new technological solutions,
- to create independent and autonomous improvements to existing transport, traffic and transport-logistics processes,
- continuous monitoring of new skills in the lifelong learning process,

- taking and resolving environmental and protective measures in the work environment,
- teamwork, communication skills and the development of professional ethics in a national and international environment, especially in the various EU institutions.

In this study programme, students acquire the following competences:

- knowledge and understanding of the transport system and organisation, transport technology, transport logistics and transport safety from theoretical and practical perspectives,
- knowledge and understanding of the factors of transport infrastructure and transport asset operation, transport planning and management, and the characteristics of traffic flows,
- Understanding of the general structure and ability to plan and design selected technological processes of transport technologies, transport and environment, geographical information systems in accordance with legal, economic and other provisions or regulations,
- knowledge and understanding of the drivers of logistics processes and logistics networks, and the legal and economic support for these processes,
- understanding of the overall structure and ability to plan and design logistics distribution centres, logistics marketing, relief logistics and other processes, in line with strategic management, IT and any other support,
- Knowledge and understanding of the factors of numerical analysis in traffic, traffic regulation, traffic accident analysis and the theoretical basis of traffic safety in all transport sectors,
- understanding of the general structure of transport biomechanics, vehicle dynamics and transport ergonomics, and relevant skills in transport engineering, reliability and maintenance, and intelligent transport systems,
- development and application of new methods in project tasks to solve problems in transport technology, transport logistics and transport safety in all transport sectors,
- an understanding of professional and scientific literature and the ability to write and publish professional and scientific papers.

Subject-specific competences (learning outcomes)

In this study programme, students acquire the following competences:

- knowledge and understanding of the transport system and organisation, transport technology, transport logistics and transport safety from theoretical and practical perspectives,
- knowledge and understanding of the factors of transport infrastructure and transport asset operation, transport planning and management, and the characteristics of traffic flows,
- Understanding of the general structure and ability to plan and design selected technological processes of transport technologies, transport and environment, geographical information systems in accordance with legal, economic and other provisions or regulations,
- knowledge and understanding of the drivers of logistics processes and logistics networks, and the legal and economic support for these processes,
- understanding of the overall structure and ability to plan and design logistics distribution centres, logistics marketing, relief logistics and other processes, in line with strategic management, IT and any other support,
- Knowledge and understanding of the factors of numerical analysis in traffic, traffic regulation, traffic accident analysis and the theoretical basis of traffic safety in all transport sectors,
- understanding of the general structure of transport biomechanics, vehicle dynamics and transport ergonomics, and relevant skills in transport engineering, reliability and maintenance, and intelligent transport systems,
- development and application of new methods in project tasks to solve problems in transport technology, transport logistics and transport safety in all transport sectors,
- an understanding of professional and scientific literature and the ability to write and publish professional and scientific papers.

Conditions for enrolment

The Master's degree **in Transport is** open to students who have successfully completed:

1. a study programme of at least first cycle attested by at least 180 credits in the relevant professional field of '**Transport (transport) services**': Road Transport, Rail Transport, Air Transport, Maritime and River Transport, Postal Transport, Forklift and Lift Operation, or in the professional field of '**Engineering**': Mechanical Engineering, or an equivalent study programme obtained in accordance with the current regulations in the Republic of Slovenia or abroad.

1. a programme of studies of at least first cycle attested by at least 180 credits in other professional fields or an equivalent programme of studies obtained in accordance with the existing regulations in the Republic of Slovenia or abroad, **provided that the student has completed the study requirements prior to enrolment** which are essential for continuing his/her studies. These requirements shall be determined by the Study Affairs Committee of the UL FPP and shall range from 10 to a maximum of 60 credits."

Selection criteria in the event of an enrolment limitation

1. For candidates referred to in point 1 of the entry requirements, the first cycle of studies (average grade, final examination grade) is taken into account. If the candidate does not have a final examination grade, only the average grade will be taken into account,
2. For candidates referred to in point 2 of the entry requirements, the pass mark in the first cycle (75%) and the pass mark in the additional study requirements (25%) are taken into account. The points are calculated by rounding the average marks in the studies or additional study requirements to one decimal place and multiplying by 10 to give a maximum of 100 points.

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

Students may be awarded credit for knowledge which corresponds in content to the subjects taught in the Transport study programme and which has been acquired in various forms of education. The recognition of knowledge and skills acquired prior to enrolment is decided by the Study Affairs Committee of the UL FPP, 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.

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 he or she has completed the curricular requirements of at least 45 credits by the end of the academic year.

Exceptionally, a student may enrol in a higher year even if he/she has not fulfilled all the requirements set by the study programme for enrolment in a higher year, if he/she has justified reasons for this as laid down in the UL Statutes.

Under the conditions set out in the preceding paragraph, a student may enrol in a higher year of study if he/she accumulates at least 40 ECTS credits. Exceptional enrolment shall be decided by the UL FPP Committee for Academic Affairs. A student who demonstrates above-average academic performance in his/her studies may be granted accelerated progression.

A student who has not completed all the requirements set by the study programme for entry to the upper year may repeat the year in accordance with the law if he/she has achieved at least 30 ECTS credits.

Conditions for switching between programmes

Transfers are possible between study programmes:

1. which provide comparable competences or learning outcomes at the end of the course;
2. of which at least half of the European Credit Transfer System (ECTS) requirements from the first study programme that relate to the compulsory subjects of the second study programme may be recognised under the criteria for the recognition of knowledge and skills acquired prior to enrolment in the programme.

Other conditions for transfer between study programmes:

1. if the conditions for enrolment in a second-level postgraduate Master's degree programme in Maritime Studies are fulfilled,
2. if a candidate coming from another programme fulfils the conditions set out in the programme's promotion requirements. In this case, the pass marks of the comparable curriculum subjects recognised as passed examinations for the candidate coming from the other programme by the FPP Student Affairs Committee shall be taken into account.

Conditions for completing your studies

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

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

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

- Master of Science (M.Sc.)

STUDY PROGRAMME CURRICULUM
TRANSPORT

2024/2025

Name of study programme	**Transport**
Programme characteristics	
Type	master's
Cycle	master
University of Ljubljana members	Faculty of Maritime Studies and Transport, Pot pomorščakov 4, 6320 Portorož, Slovenija

Year 1

				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.	0189619	Quantitative Methods in Maritime	Marina Zanne	45	15	30	0	30	120	240	8	1st semester	no
2.	0189621	Modern Transport Technology	Bojan Beškovnik	45	45	0	0	15	105	210	7	1st semester	no
3.	0189622	Methodology of Planning Maritime and Transport Systems	Elen Twrdy	45	45	0	0	15	105	210	7	1st semester	no
4.	0189623	Mathematical Modelling and Simulations	Milan Batista	60	0	30	0	30	120	240	8	1st semester	no
5.	0189624	Logistics Engineering	Patricija Bajec	45	0	45	0	30	120	240	8	2nd semester	no
6.	0189625	Strategy of Management in Transport and Logistics	Robert Muha	45	30	15	0	15	105	210	7	2nd semester	no
7.	0189626	Intermodal Terminals	Bojan Beškovnik	45	30	15	0	30	120	240	8	2nd semester	no

8.	0189627	Compulsory elective course (CEC)		45	15	30	0	15	105	210	7	2nd semester	yes
		Total		375	180	165	0	180	900	1800	60		

Year 1, Obvezna izbirna predmeta (OIP)/Compulsory 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.	0189628	Maritime Logistics	Elen Twrdy	45	30	15	0	15	105	210	7	2nd semester	yes
2.	0189629	Risk Modeling, Assessment and Management	Peter Vidmar	45	15	30	0	15	105	210	7	2nd semester	yes
		Total		90	45	45	0	30	210	420	14		

Year 2

				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.	0189630	Digitalization of Traffic	Franc Dimc	45	15	15	0	15	90	180	6	1st semester	no
2.	0189631	Optimization of Processes in the Logistics Distribution Centre	Patricija Bajec	45	15	15	0	15	90	180	6	1st semester	no
3.	0189632	Optional subject		45	15	15	0	15	90	180	6	1st semester	yes
4.	0189633	Optional subject		45	15	15	0	15	90	180	6	1st semester	yes
5.	0189634	Project work	Aleksander Grm, Aleksej Turnšek, Andrej Androjna, Blaž Luin, Bojan Beškovnik, Boštjan	15	0	0	0	75	90	180	6	1st semester	no

			Batagelj, Damjana Jerman, Danijela Tuljak Suban, Elen Twrdy, Evelin Krmac, Franc Dimc, Maja Stojaković, Marina Zanne, Marko Pavliha, Marko Perkovič, Matija Svetina, Milan Batista, Oliver Bajt, Patricija Bajec, Patrick Vlačič, Peter Vidmar, Robert Muha, Sebastjan Škerlič, Stojan Petelin, Tanja Brcko Satler, Violeta Jurković									
6.	0189620	Master thesis	Aleksander Grm, Aleksej Turnšek, Andrej Androjna, Blaž Luin, Bojan Beškovnik, Boštjan Batagelj, Damjana Jerman, Danijela Tuljak Suban, Elen Twrdy, Evelin Krmac, Franc Dimc, Maja Stojaković, Marina Zanne, Marko Pavliha, Marko Perkovič, Matija Svetina, Milan Batista, Oliver Bajt, Patricija Bajec, Patrick Vlačič, Peter Vidmar, Robert Muha, Sebastjan Škerlič, Stojan Petelin, Tanja	15	0	0	0	435	450	900	30	2nd semester	no

			Brcko Satler, Violeta Jurković										
		Total		210	60	60	0	570	900	1800	60		

Year 2, Izbirni predmeti/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.	0189635	Exploitation of Technical Means In Transport	Robert Muha	45	15	15	0	15	90	180	6	1st semester	yes
2.	0189636	Dimensioning of Traffic Infrastructure	Marjan Lep	45	15	15	0	15	90	180	6	1st semester	yes
3.	0189637	Logistics Network Optimization	Danijela Tuljak Suban	45	15	15	0	15	90	180	6	1st semester	yes
4.	0189638	Traffic Data Management	Evelin Krmac	45	15	15	0	15	90	180	6	1st semester	yes
5.	0189639	Traffic and Sustainable Development	Oliver Bajt	45	15	15	0	15	90	180	6	1st semester	yes
6.	0189640	Engineering Analysis of Traffic Accidents	Milan Batista	45	15	15	0	15	90	180	6	1st semester	yes
7.	0189641	Marketing in Transport and Logistics	Damjana Jerman	45	15	15	0	15	90	180	6	1st semester	yes
8.	0189642	Exploitation of Transport Infrastructure	Marijan Žura	45	15	15	0	15	90	180	6	1st semester	yes
		Total		360	120	120	0	120	720	1440	48		