

## LATVIAN MARITIME ACADEMY

**MSc degree programme**  
**STUDY COURSES AVAILABLE IN ENGLISH**  
**2023/2024\***

LMA Study Programme	<b>Maritime Transport</b> ( <i>code 47 525</i> )
Level of Study:	Professional higher education Master study
Official length of the Programme:	1.5 years of full-time studies or 3 years of part-time studies 60 Latvian credit points (CP), 90 ECTS credits
Access requirements:	Professional bachelor degree or professional higher education and fifth-level or adequate professional qualifications obtained upon completion of a maritime study programmes, which provide access to master studies. Graduates of other related programmes of study may be enrolled on fulfilling additional entry requirements
Qualification:	Professional master degree in Maritime Transport
Access to further study:	Access to doctoral studies

**AUTUMN SEMESTER**  
**2023/2024**

	Total Latvian CP/ECTS credits
<b>A. COMPULSORY COURSES</b>	
2. Environmental Impact of Maritime Transport	2/3
3. Maritime Transport Logistics	2/3
4. Organization and Management of Maritime Transport Enterprises	3/4.5
5. Strategic and Operational Management	2/3
<b>B. RESTRICTED OPTION</b>	
<b>B1. Specialization Courses</b>	
<b>B.1.1. Maritime Transport Management Engineering</b>	
1. Information and Communication Technologies	2/3
2. Port Terminal Operation Technology Management	3/4.5
<b>B.1.2. Operation of Maritime Transport</b>	
1. Information and Communication Technologies	2/3
2. Modelling and Diagnostics of Technical Systems in Maritime Transport	3/4.5
<b>B2. Foreign Languages</b>	
1. English Academic Writing	1/1.5
<b>C. FREE OPTION</b> - C6. Project Management	<b>1/1.5</b>

**PLAN OF STUDY JT401**  
LMA Study Programme “Maritime Transport” (code 47 525)

Level of Study: Professional higher education Master study  
Qualification: Professional master degree in Maritime Transport  
Access to further study: Access to doctoral studies

**Enrolment in 2023/2024**  
**SPRING SEMESTER**

COURSE DESCRIPTION			ECTS credits	Test
<b>A. COMPULSORY COURSES</b>	<i>Purpose of the course:</i>	<i>Course Outline:</i>	<b>25.5</b>	
2. Maritime Transport Logistics	To gain understanding of the Logistics principles, possibilities optimize production and logistics chains on basis logistics possibilities, methods, used best practice link with Maritime transport for the master practical skills and expertise to rich and apply Logistics possibilities. Students should be able on basis Logistics course studies work in logistics and transport companies, participate in different transport and logistics projects and research work	<p>Intensive Countries development and optimization many sectors request new more effective producing and management forms. Economics globalization process, which is as result of countries extensive development, producing optimization and new market and regions involving, possibilities of the informatics technologies and telemetric possibilities, create and improve new producing, transportation, distribution, trading principles, in which more and more important role play goods costs, delivery time, safety factors.</p> <p>Logistics as practical and research sector is known from antic times and in different forms were used every time, independent what name was used: industry or producing planning, transportation supply or cargo operation preparation, goods management and so on, but in all mention sectors were logistics elements.</p> <p>Logistics definition was described by Alexander Macedonian, according his definition logistics means full actions planning, with maximum evaluation possible internal and external factors influence and positive and especially negative influence on planning processes and now is more improve and develop.</p> <p>Main tasks of the course and student qualifications: students must receive knowledge about logistics tasks, on basis theoretical studies and course work should able design logistics chains with possibilities use different transport modes, terminals and warehouses possibilities, optimize logistics chains. On basis of the Logistics course studies, student should able select logistics problems, evaluate and on basis optimization and alternative solutions find optimal solutions in different conditions and situations</p>	3	E
3. Organization and Management of Maritime Transport Enterprises	To acquire understanding and knowledge of operation of commercial companies, including shipping companies, general operating principles of shipping companies, management a companies, study current trends and challenges of technical and commercial management, to acquire practical skills and competencies to analytical	<p>Organization of shipping structures, management tasks and specialization. The regulation of foundation, operation and liquidation of commercial entities. Forms on management and representation of commercial entities. Insolvency of commercial entities and shipping companies. Commercial, Operational and Technical manager's functions, tasks and responsibilities. Flag and Class and PSC functions and responsibilities. Voyage and</p>	4.5	CP, E

	assessment of management and to offer alternative solutions to improve company's performance and efficiency	running cost planning, Crewing, MLC compliance. Marine insurance, H&M insurance, P&I clubs. MLC responsibility and insurance. Ship operation economics, budgets, earnings, running costs and cash flow control, „Lean shipping". Organization of ship building and disposal. Cargo carriage by sea, charter party and agency. In order to develop analytical and research skills and abilities the students prepare a study work accordingly to their specialization. In study work the student shall enlighten and profoundly study some problems related to the transport management and as result shall acquire and develop practical research and presentation skills. Subject of the study work shall be agreed with the teachers and presented in PP or in other agreed format.		
4. Strategic and Operational Management	The students will obtain knowledge on current trends in strategic and operational management, get used to essential terminology and used literature. The course's aim is to assist students in effective use of acquired knowledge in different corporate situations. The practical skills obtained during the course are aimed at ability to develop and execute strategic and operational plans etc. for a definite undertaking, as well as developing practical approach of using analytical methods in resolving problems in organizations.	Students have a rationale and knowledge based insights, based in the holistic approach and systemic understanding about particular dynamism of global, international and organizational processes in strategic and operational management; they have knowledge in decision making and management of strategic and operational management issues.	3	FT
<b>B. RESTRICTED OPTION</b>			<b>24</b>	
<b>B1. Specialization Courses</b>			<b>21</b>	
<b>B.1.1. Maritime Transport Management Engineering</b>			<b>21</b>	
1. Cargo Handling Technology Management	To provide students with the knowledge and abilities of management of vessels' cargo operations.	Study course provides knowledge of cargo handling principles, process and means in broader context of transport engineering their branch of engineering. The ability to apply knowledge in calculations necessary for cargo handling, and based on that draw recommendations for efficiency enlargement. The ability to model cargo handling process, critically evaluate results and draw conclusions for improvement of the operation. The ability to investigate the technologies and organizational structure of the enterprise, formulate recommendations for their development. To obtain practical skills and abilities the students elaborate a course paper	3	CP, FT
<b>B.1.2. Operation of Maritime Transport</b>			<b>21</b>	
1. Modelling and Diagnostics of Technical Systems in Maritime Transport	Acquired competences and skills of the modeling theory and modern modeling methods, skills of the technical system of diagnostic methods, knowledge of marine equipment (ME) mathematical modeling techniques and software. Acquired skills and abilities ME mathematical models for practical choice and creation.	Modeling technology. Modeling tasks. Modern marine modeling systems. Marine technical systems modeling methods, tools and mathematical modeling. Marine technical systems of modern modeling techniques. Practical skills and abilities to obtain students develop study work. Study work includes: Marine model of the system and the creation of a practical choice. According to mathematical models for practical algorithmization models and computer simulation. The developed model analyzes the different modes of operation. The results are evaluated and analyzed.	4.5	CP, E

2. English Academic Writing	The course is aimed at extending and improving students' theoretical knowledge of English academic writing style and ability to use it appropriately when writing the Master thesis summary in English, as well as translating the Master thesis annotation in English. The course is also aimed at developing students' research competence, providing the necessary knowledge of English academic terminology, and application of the acquired knowledge to make a summary of Master thesis in the field of maritime transport management and operation of marine transport.	The course includes the highest level of English academic writing studies and provides the necessary theoretical and practical knowledge of English academic writing style. After successful completion of the course, students will broaden their knowledge of the academic terminology applied to scientific research, academic writing principles concerning sentence structure, linking devices and strategies for the students' scientific needs when drafting the Master thesis summary in the field of maritime transport management and operation of marine transport. Moreover, during the course students will develop research competence, which will be demonstrated by regular completion of the assigned homework, as well as editing and proofreading academic papers. For the development of practical skills, students make their Master theses' summaries according to the English academic writing style and terminology, as well as independently translate their Master theses' annotations to English.	1.5	FT
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*\* The list of the study courses available in English may be amended if such a necessity arises.*

**Legend:**

FT – final test

CP – course project

E – Exam