

NOVA

NOVA SCHOOL OF
SCIENCE & TECHNOLOGY



Marinha
Escola Naval

Master in Maritime Logistics

An innovative international program



With the contribution of the
European Maritime and
Fisheries Fund of the
European Union

MarLEM 

The Master degree in Maritime Logistics (MML) is an innovative international program comprising multiple aspects of maritime logistics, operations and their supporting technology, trade law, port administration, maritime business analysis, as well as leadership and managerial skills. Moreover, the students will be given the opportunity to complete a three-month internship or implement a final project in one of the leading companies of the maritime logistics cluster. Academic institutions and firms from Europe are taking part in the development of this program and will collaborate in the delivery of the curriculum.

This program represents a chance to become the professional in maritime logistics the market is looking for, and stand out among other experts. The program fosters optimal technical and managerial preparation, oriented towards current and future challenges faced by the industry, such as digitalization and multicultural interconnectedness, combined with valuable on-field experience.



The Goals

The Master in Maritime Logistics (MML) provides a fundamental set of knowledge in Industrial Engineering, Management and Logistics, which allows professionals to develop the relevant research, innovation, technical, digital and soft skills, including critical reasoning and a proactive attitude.

This program is built upon the long-dated experience in industrial engineering and logistics education of the School of Science and Technology of NOVA University of Lisbon (NOVA SST), and the deep-rooted maritime excellence backed by the tradition of the Portuguese Naval Academy, tailored to the frame of needs identified by the industry in the scope of Project MarLEM.



Programme characteristics and Curriculum

The program duration is 1 year with a total of 60 ECTS. The one semester curricular part is delivered in weekly-based modules that enable intensive approaches and the development of a critical and proactive attitude in the evaluation of problems and in the search for innovative solutions and decision making.

On the second semester, students have the option to either elaborate and implement a real-world maritime and port logistics project or to engage into a professional internship.

CURRICULUM	ECTS	SEMESTER	SUBJECT
Introduction to Maritime Logistics	6	1st	Understand maritime logistics, identify its business, operational, technological and regulatory components in an integrated view of the chain, and its sustainability and relationships with its environment, in order to structure and find appropriate approaches to maritime logistics chains problems.
Maritime Business Analysis	3	1st	The nature of the diverse types of businesses within the maritime logistics chain (ship and fleet, port and terminal, inland modes and logistics), and operational and investment finance and risks.
Operations Management	3	1st	Operations design, planning, management and control, decision-making support tools, and standards (quality; risk, HSE – Health, Safety & Environment, and physical assets management).
Maritime Logistics Technology	3	1st	Technological multiplicity of maritime logistics: the different technologies, their functional relationships with the logistic operations and the opportunities brought by the new technological tendencies as well as the risks of ignoring them.
Integrated Maritime Logistics	3	1st	Value creation in supply chains and the integrated logistics systems approach and its life-cycle management, under the risk and uncertainty associated with maritime logistics, sustainability requirements and the push of future trends.
Maritime and Port Administration	3	1st	Maritime Administration and its functions as a global organization towards the shipping industry and the sea port and its entities and services.
Maritime Law	3	1st	The concepts and sources of Maritime Law, International Trade and shipping documents, INCOTERMS, and Brokering and Chartering Practice.
Leadership and Team Management	3	1st	Organizations as political entities, organizational behaviour and team leadership, collaboration and communication, creativity and innovation frameworks, global awareness and civic literacy.
Intercultural Negotiation	3	1st	A systematic view of negotiation and conflict resolution, both simple and complex, involving two parties or multiple parties, the role of power and influence, tactics, how different cultures negotiate, main fallacies and mind bias in decision making.
Project Work or Professional Internship	30	2nd	The Project is carried out in a research centre in association with an industry partner; the Internship takes place at an industry partner.



Access requirements

Candidates should have at least 5 years of professional experience, preferably, but not exclusively, in Logistics Operations and Management.



MarLEM (Maritime Logistics Engineering and Management) Project Partners

Besides NOVA SST and the Portuguese Naval Academy, two industry clusters back the EU funded MarLEM Project that led to the creation of this Master Degree: Fórum Oceano, from Portugal and Marine South East, from the UK. The EU Project lead by Qualiseg, a Portuguese industrial engineering and management consulting firm, is also supported by well-known academic institutions, as the European Association of Universities in Marine Technology and Related Sciences (WEGEMT), the University of Strathclyde, in the UK, and the Centre for Research and Technology Hellas (CERTH), the main research centre in transportation in Greece.



Programme coordinators

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