

MSc in Marine Engineering Management

The Aim of the Programme

Recent developments in local and overseas markets for postgraduate engineering programmes have led to a significant increase in the demand for MSc programmes in engineering disciplines with a management focus. The aim of the MSc in Marine Engineering Management is to provide a flexible Masters-level programme which offers a unique blend of Marine Engineering, and Management directly relevant to the challenges facing the international maritime industry in the 21st Century.

Structure of the Programme

In order to achieve the Master award by the University of Greenwich students must complete eight core modules and an individual project under the guidance of a designated supervisor. The students are formally registered as students of the University of Greenwich.

COURSES

- **Strategy and Management** - 15 credits
- **Research Methodology** - 15 credits
- **Marine Engineering Law and Marine Insurance** - 15 credits.
- **Marine Engineering Economics and Business** - 15 credits
- **Engineering Management of Vessels and Fleets** - 15 credits
- **Commercial Management of Ships** - 15 credits
- **Advanced Principles in Supply Chain Management** - 15 credits
- **Environmental Engineering** - 15 credits
- **Individual Project** - 60 credits

Entry Requirements

- First degree in a science or technology discipline with at least a second class award; or
- Merchant Marine or Navy Officer qualifications or overseas equivalent, with relevant sea-experience and/or equivalent shore-based work experience.
- A TOEFL score of at least 233 (CBT) or 79-80 (iBT)

Duration of Programme

- One year (full-time)
- Two years

Careers

The programme takes a strategic perspective of the maritime industry and places emphasis on the skills required for achieving the highest positions within this exciting industry. On completion of this programme, graduates will have a detailed knowledge of the field of marine engineering management; have the academic knowledge and skills base to operate as an effective professional engineer in the area of marine engineering management; and have achieved an academic base that will contribute towards the requirements for registration as a Chartered Engineer (CEng).

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Core Course Descriptions

Strategy and Management - 15 credits

The inclusion of management studies in postgraduate engineering programmes acknowledges the importance of the knowledge and practice of management at a strategic level. Such knowledge is fundamental for engineers in management positions in industry and is an educational requirement/prerequisite endorsed by the Engineering Council. This course provides the essential background knowledge that technology managers require for the understanding of the theory and the practice of strategic issue management.

Research Methodology - 15 credits

To equip students with perspectives in the philosophy, methodology and communicative skills required to undertake scientific, engineering and management research.

Marine Engineering Law and Marine Insurance - 15 credits

This course is intended to prepare the postgraduate marine engineering student in his/her general professional functions within the maritime industry environment by providing him/her with a broad yet specific knowledge on legal, regulatory and insurance topics. After completing this course successfully, the marine engineering student will become familiar and be able to navigate within the fundamental principles and jargon of the elements of English law applicable to the maritime industry and marine insurance and thus obtain knowledge that will undoubtedly prove essential in his/her professional activities onboard and ashore. It will further provide the essential degree of necessary confidence in dealing with situations that can potentially expose marine engineering professionals to the world of claims litigation, often feared by many engineering practitioners of all disciplines.

Marine Engineering Economics and Business- 15 credits

This course is intended to prepare the postgraduate marine engineering student in his/her general functions within a ship-management environment, by providing him/her with a broad yet specific knowledge on a variety of focused financial and economic subjects surrounding the maritime industry. By completing this course successfully, the marine engineering student will be able to understand the financial, accounting and business implications of good ship-management practice and deal with its consequences.

Engineering Management of Vessels and Fleets - 15 credits

The aim of this course is to provide the marine engineering

graduate student with the overall knowledge and skills necessary for the assumption of the role of the Technical Director within a Ship Management organisation in charge of the operation of a diverse fleet of dry and wet cargo vessels.

Commercial Management of Ships - 15 credits

The aims of this course are to provide the postgraduate marine engineering student, about to assume a leading role in maritime organisation, with in-depth knowledge on the various activities surrounding the commercial exploitation of vessels. Subjects include the sale and purchase of ships, their profitable chartering and employment in all common forms and types including time spent in ports. The impact of national, EU and International sea transport policies are examined, together with IMO regulations that dictate future terms of trade and developments in the design, technical and specifications of ships.

Advanced Principles in Supply Chain Management - 15 credits

This course aims to provide students with a broad introduction and knowledge of logistics and supply chain management for strategic and tactical decision; and to develop introductory understanding of the unified and comprehensive logistics management environment.

Environmental Engineering - 15 credits

This course aims at exposing engineering students of all disciplines to environmental issues, drawing on basic science and engineering principles to assess particular environmental problems and to design solutions that reduce or eliminate environmental impacts. The understanding will be both at conceptual and at a practical level. It will therefore enable the engineering students to experience a number of different environmental threats and issues and help them develop practical solutions to environmental engineering problems.

Individual Project - 60 credits

Independent project work is an essential part of Masters level study. The work undertaken within this course will be an individual piece of work. Students will be expected to demonstrate elements of independent thinking consistent with the expected research content of a Masters level project. Students should also demonstrate the ability to report on the project and to present in lay terms the concept underpinning the work and results.