PROGRAMME SPECIFICATION	

1 Awarding Institution	Newcastle University
2 Teaching Institution	Newcastle University University of Southampton University College London
3 Final Award	Master of Science Postgraduate Diploma Postgraduate Certificate
4 Programme Title	Marine Technology PG Certificate: 3173P (Sept Entry) 3174P (Jan Entry) Marine Technology (Naval Architecture) PG Diploma: 3522P (Sept Entry) 3523P (Jan Entry) Marine Technology (Marine Engineering) PG Diploma: 3520P (Sept Entry) 3521P (Jan Entry) Marine Technology (General) PG Diploma: 3518P (Sept Entry) 3519P (Jan Entry) Marine Technology (Naval Architecture) MSc: 5413P (Sept Entry) 5414P (Jan Entry) Marine Technology (Marine Engineering) MSc: 5082P* 5411P (Sept Entry) 5412 (Jan Entry) Marine Technology (General) MSc: 5409P (Sept Entry) 5410P (Jan Entry)
5 Programme Code	See above
6 Programme Accreditation	Royal Institution of Naval Architects Institute of Marine Engineering, Science and Technology
7 QAA Subject Benchmark(s)	N/A
8 FHEQ Level	7
9 Last updated	May 2023

10 Programme Aims
The aim of this programme is to provide the marine industry within the UK with graduates

who have the necessary skills and training in advanced technologies, management, business and IT. With this training, they will be able to provide the necessary leadership and vision to maintain and enhance the industry's knowledge base and improve competitiveness. The programme will provide students with advanced technical and managerial techniques that can be applied in the marine industry and enable them to take on major responsibility early in their careers.

11 Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas.

Knowledge and Understanding

On completing the programme students should be able to demonstrate understanding of:

A1 advanced technology within the chosen technology stream

A2 business applications of advanced marine technologies

A3 concepts of non-technical issues including economics, environmental issues, safety and legislation

Teaching and Learning Methods

Knowledge and understanding are generally taught via formal lectures and distance learning material, supplemented by seminars and tutorials. Students are encouraged to develop their knowledge and understanding by independent reading for which they are given guidance in the distance learning material. The use of design exercises during the intensive school, and work based assessments and application after the intensive school, also enable the student to learn. Knowledge and understanding are also achieved via a significant multidisciplinary industrial project which must include A1-A3.

Assessment Strategy

Knowledge and understanding are assessed via unseen written examinations, course assignments and the industrial project. For A1 and A2 this is supplemented by performance in design exercises where appropriate.

Intellectual Skills

On completing the programme students should be able to demonstrate awareness of:

B1 the collation, analysis and evaluation of data

B2 problem formulation

B3 problem solving

B4 decision making

Teaching and Learning Methods

These skills are taught primarily through design classes, case studies and seminars. Development of these skills is particularly linked to industrial and work based applications such as group and individual design exercises, preschool assignments, post school assignments, and the industrial project.

Assessment Strategy

Intellectual skills are assessed via the industrial project and any assessed design exercises. Skill B1 is also assessed by the course assignments.

Practical Skills

On completing the programme students should be able to demonstrate:

C1 an awareness of theoretical design concepts and practical implementation

C2 IT skills

C3 project planning

C4 project and resource management

Teaching and Learning Methods

Practical skills are highly relevant in this programme. Lectures and design classes are a key element to teaching subject specific skills. In addition, distance learning material is used to develop project planning and project and resource management skills (C3 and C4). Students are encouraged to learn by application both during the modules and in a work based environment. Design exercises during the modules and work based applications as part of the post school study are the key methods for enabling the students to obtain and improve these important skills. In particular, design exercises require the student to apply theoretical work in a practical way, use a variety of software and organise and manage the design process. In addition, skill C2 is supplemented by the delivery system for the distance learning material which is a web based system (Blackboard).

Assessment Strategy

These skills are essentially assessed via design exercises, where appropriate, the industrial project and course assignments. Theoretical design concepts and practical implementation are also assessed via the unseen written examination.

Transferable/Key Skills

On completing the programme students should be able to demonstrate:

D1 communication skills
D2 time management
D3 team working
D4 ability to work alone

Teaching and Learning Methods

The key transferable skills are demonstrated in seminars and through the study skills information in the student handbook. This information is particularly important for the distance learning element of the programme. Expertise in these skills is developed by module and project presentations (D1), preparation of the project dissertation (D1), the industrial based group project (D1, D2, D3, D4) and work based assignments (D1, D2, D4). The actual completion of the programme, including the distance learning packs, will, in itself, significantly develop key skills (D2, D4). The student must combine this study with commitments at work and at home.

Assessment Strategy

Communication skills (D1) are the most assessed key skills. Assessment includes design exercises, course assignments and the industrial project – dissertation and oral interview. Teamworking (D3) is also assessed by the project and design exercises. The other skills are not formally assessed in the programme.

12 Programme Curriculum, Structure and Features

Basic structure of the programme

The programme is delivered as a part time modular programme with a maximum duration of five years (minimum two years). MSc students complete ten 10-credit modules and an 80- credit research project. PG Diploma students complete eight 10-credit modules and a 40- credit research project.
PG Certificate students complete six 10-credit modules.
Overall credit arrangements: MSc 180 credits
PG Diploma 120 credits PG Certificate 60 credits

There are no fixed stages for the programme. The programme is designed for students working full time in industry and therefore needs to be as flexible as possible. Students will be able to choose which modules to complete each year.

All modules must be passed by the student. One resit opportunity is permitted. Students can continue to take modules whilst awaiting a resit opportunity.

Core and foundation modules should be completed by the student early on in the programme.

Key features of the programme (including what makes the programme distinctive)

The programme has a number of innovative features, in particular:

- Designed for graduates and engineers working full time.
- Designed to be highly relevant to industry's needs.
- Collaborative programme involving four UK universities.
- Modules delivered via a combination of distance learning material and intensive schools. Distance learning material available via a web based IT system.
- MSc and PG Diploma projects wholly industrially based. Foundation modules available for
- non-marine graduates.

Programme regulations (link to on-line version)

-R3173P_3174P.pdf (ncl.ac.uk)
-R3522P_3523P.pdf (ncl.ac.uk)
-R3520P_3521P.pdf (ncl.ac.uk)
-R3518P-3519P.pdf (ncl.ac.uk)
-R5413P_5414P.pdf (ncl.ac.uk)
-R5411P_5412P.pdf (ncl.ac.uk)
-R5409_5410P.pdf (ncl.ac.uk)

13 Support for Student Learning

Generic information regarding University provision is available at the following link.
Generic Information

14 Methods for evaluating and improving the quality and standards of teaching and learning

Generic information regarding University provision is available at the following link.
Generic Information

Accreditation reports

Accreditation was given by IMarEST/RINA in 2021 for the MSc programmes. Accreditation is for 5 years and the next re-accreditation visit is due in 2026.

15 Regulation of assessment

Generic information regarding University provision is available at the following link.
Generic Information

In addition, information relating to the programme is provided in:
The University Prospectus: https://www.ncl.ac.uk/postgraduate/ Degree Programme and University Regulations: http://www.ncl.ac.uk/regulations/docs/

Please note. This specification provides a concise summary of the main features of the programme and of the learning outcomes that a typical student might reasonably be expected to achieve if she/he takes full advantage of the learning opportunities provided.

Last updated: 21/08/2023 15:28