

Programme Regulations: 2021/22

Programme Titles:

Degree of Master of Science in Marine Technology (Naval Architecture) – Codes: 5413P (September Entry) & 5414P (January Entry)

Notes:

- i. *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- ii. *All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.*
- iii. *A compulsory module is a module which a student must take.*
- iv. *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*

1. Programme Structure

- (a) The programme is available for study via distance learning. Each taught module will consist of 100 notional study hours, of which 35 hours will be the intensive school. Reading and course work will be prescribed for the non-intensive school part of the module. The normal minimum length of study is 24 months, with a maximum of 60 months, although this may be extended by the Board of Studies on the recommendation of the Degree Programme Director, by not more than twelve months at a time.
- (b) This is a modular degree jointly taught by Newcastle University (NCL), the University of Southampton (SOUTH) and University College London (UCL). The programme is designed to provide training at MSc level for recent graduates in full-time employment in industry.
- (c) The programme comprises modules to a credit value of 180.
- (d) Candidates who registered prior to January 2018 shall take the following compulsory modules:

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|--|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8102 | Marine Project Management | 10 | 10 | | | 7 | Block |
| MAR8104 | Optimisation in Engineering Design | 10 | 10 | | | 7 | Block |
| MAR8107 | Reliability and Integrity Management of Marine Systems | 10 | | 10 | | 7 | Block |
| MAR8108 | Structural and Material Response to the Marine Environment | 10 | 10 | | | 7 | Block |
| MAR8110 | Advanced Structural Design & Analysis | 10 | 5 | 5 | | 7 | Block |

| | | | | | | | |
|---------|---|----|--|----|----|---|--------|
| MAR8134 | Marine Renewable Energy: Sources and Recovery | 10 | | | 10 | 7 | Block |
| MAR8196 | PG Dissertation | 80 | | 20 | 60 | 7 | Linear |

(e) All candidates shall take the following module:

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8137 | Maritime Economics | 10 | | 10 | | 7 | Block |

(f) If a candidate does not have a background in Marine Technology, they may be required to undertake one or both of the following as compulsory foundation modules at the request of the Programme Director on application to the programme.

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8106 | Marine Engineering | 10 | | 10 | | 7 | Block |
| MAR8122 | Naval Architecture | 10 | | 10 | | 7 | Block |

(g) All candidates shall normally take 30 credits from the following optional modules. Students required to take compulsory foundation modules from (g) will select 10 or 20 credits depending how many foundation modules they are required to take.

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|---|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8103 | Marine Systems Identification, Modelling & Control | 10 | | 10 | | 7 | Block |
| MAR8112 | Marine Electrical and Electronic Systems | 10 | 10 | | | 7 | Block |
| MAR8140 | Yacht Design | 10 | 10 | | | 7 | Block |
| MAR8141 | Introduction to Offshore, Subsea and Pipeline Engineering | 10 | 10 | | | 7 | Block |
| SPG8012 | Renewable Energy: Energy Management | 10 | 10 | | | 7 | Block |
| SPG8013 | Environmental Impact Assessment | 10 | | 10 | | 7 | Block |

| | | | | | | | |
|---------|--|----|----|--|--|---|-------|
| SPG8014 | Introduction to Hydro, Wind, Wave and Tidal Energy | 10 | 10 | | | 7 | Block |
| SPG8024 | Quantifying Energy Decision Making | 10 | 10 | | | 7 | Block |

(h) Candidates who registered after January 2018 shall take the following compulsory modules:

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|--|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8102 | Marine Project Management | 10 | 10 | | | 7 | Block |
| MAR8104 | Optimisation in Engineering Design | 10 | 10 | | | 7 | Block |
| MAR8107 | Reliability and Integrity Management of Marine Systems | 10 | | 10 | | 7 | Block |
| MAR8108 | Structural and Material Response to the Marine Environment | 10 | 10 | | | 7 | Block |
| MAR8110 | Advanced Structural Design & Analysis | 10 | 5 | 5 | | 7 | Block |
| MAR8134 | Marine Renewable Energy: Sources and Recovery | 10 | | | 10 | 7 | Block |
| MAR8137 | Maritime Economics | 10 | | 10 | | 7 | Block |
| MAR8196 | PG Dissertation | 80 | | 20 | 60 | 7 | Linear |

(i) If a candidate does not have a background in Marine Technology, they may be required to undertake one or both of the following as compulsory foundation modules at the request of the Programme Director on application to the programme.

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8106 | Marine Engineering | 10 | | 10 | | 7 | Block |
| MAR8122 | Naval Architecture | 10 | | 10 | | 7 | Block |

(j) All candidates shall normally take 30 credits from the following optional modules. Students required to take compulsory foundation modules from (j) will select 0 or 10 credits depending how many foundation modules they are required to take.

| Code | Descriptive Title | Total Credits | Credits Sem 1 | Credits Sem 2 | Credits Sem 3 | Level | Mode |
|-------------|---|----------------------|----------------------|----------------------|----------------------|--------------|-------------|
| MAR8103 | Marine Systems Identification, Modelling & Control | 10 | | 10 | | 7 | Block |
| MAR8112 | Marine Electrical and Electronic Systems | 10 | 10 | | | 7 | Block |
| MAR8140 | Yacht Design | 10 | 10 | | | 7 | Block |
| MAR8141 | Introduction to Offshore, Subsea and Pipeline Engineering | 10 | 10 | | | 7 | Block |
| SPG8012 | Renewable Energy: Energy Management | 10 | 10 | | | 7 | Block |
| SPG8013 | Environmental Impact Assessment | 10 | | 10 | | 7 | Block |
| SPG8014 | Introduction to Hydro, Wind, Wave and Tidal Energy | 10 | 10 | | | 7 | Block |
| SPG8024 | Quantifying Energy Decision Making | 10 | 10 | | | 7 | Block |

2. Assessment methods

Details of the assessment pattern for each module are explained in the module outline.