

## Template C4



# Programme Specification

**Title of Course:** *MSc Technology (Maritime Operations)*

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<b>Version number</b>	4
<b>Faculty</b>	Faculty of Engineering, Computing and the Environment
<b>School</b>	School of Engineering and the Environment
<b>Department</b>	Department of Aerospace and Aircraft Engineering
<b>Delivery Institution</b>	N/A

This Programme Specification is designed for prospective students, current students, academic staff and employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if they take full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes and content of each modules can be found in the course VLE site and in individual Module Descriptors.

## SECTION 1: GENERAL INFORMATION

<b>Award(s) and Title(s):</b> <i>Up to 10 pathways</i>	MSc Technology (Maritime Operations)
<b>Intermediate Awards(s) and Title(s):</b> <i>There are 4 Intermediate awards for each pathway</i>	PG Cert / PG Dip - RN variant
<b>Course Code</b> <i>For each pathway and mode of delivery</i>	
<b>UCAS code</b> <i>For each pathway</i>	N/A

<b>FHEQ Level for the Final Award:</b>	
<b>Awarding Institution:</b>	Kingston University
<b>Teaching Institution:</b>	N/A
<b>Location:</b>	This workbased learning MSc is a supervised, self-directed award and is conducted off Campus.
<b>Language of Delivery:</b>	English
<b>Modes of Delivery:</b>	Part-time
<b>Available as:</b>	
<b>Minimum period of registration:</b>	Part-time - 2 years
<b>Maximum period of registration:</b>	Part-time - 4 years
<b>Entry Requirements:</b>	Normally candidates will have successfully completed the one-year PWO course (above water) or the equivalent Warfare Officer courses for submariners.
<b>Programme Accredited by:</b>	The programme is not accredited
<b>QAA Subject Benchmark Statements:</b>	None
<b>Approved Variants:</b>	None
<b>Is this Higher or Degree Apprenticeship course?</b>	

*For Higher or Degree Apprenticeship proposals only*

<b>Higher or Degree Apprenticeship standard:</b>	
<b>Recruitment, Selection and Admission process:</b>	
<b>End Point Assessment Organisation(s):</b>	

## SECTION 2: THE COURSE

### A. Aims of the Course

The main purpose of this course is to offer students, all of whom who are or have already been practising naval officers, a negotiated and personalised programme of study which develops them further towards their full potential as safe, competent, ethical, confident, research-minded and reflective practitioners.

- To enhance students' abilities in independent study, research, critical thinking and reflective practice, reinforcing an ethos of life-long learning and continuing professional development.
- Facilitate personal and professional development including the transferable, communications and interpersonal skills necessary for managing and developing further a successful, autonomous and independent practice in the naval environment

The aims of the Postgraduate Diploma and the Postgraduate Certificate are the same as those for the MSc except that, since the PG Dip and PG Cert students do not normally undertake either the individual project or the academic paper + reflective summary, they will not have the same opportunity to engage in the in-depth research and problem solving techniques which the Dissertation or academic paper suitable for publication requires.

PG Dip and PG Cert are normally given as exit awards when students fail to complete the course.

**NOTE:** The vast majority of students enter the award with maximum advanced standing (120 credits) derived from successful completion of either the one-year Principal Warfare Officer courses of the Royal Navy (RN) or Royal Australian Navy (RAN) or the equivalent Warfare Officer courses for submariners, with associated evidence. The final 60 credits can only normally be taken by students who have reached operational performance standard.

### B. Intended Learning Outcomes

Graduates from this course will have the ability to use the range of skills indicated below to solve a substantial range of problems concerning modern military systems, operations, policy, strategy and tactics, some of a complex nature.

#### GENERAL LEARNING OUTCOMES

- The ability to develop, monitor and update a plan, to reflect a changing operating environment;
- The ability to monitor and adjust a personal programme of work on an on-going basis, and to learn independently;
- An understanding of different roles within a team, and the ability to exercise leadership;
- The ability to learn new theories, concepts, methods etc. in unfamiliar situations.
- The ability to undertake critical reflection of both their technical and personal performance

#### SPECIFIC LEARNING OUTCOMES

In respect of the specific learning outcomes, MSc Technology (Maritime Operations) graduates will also be characterised by some or all of the following. The balance will vary according to the specific details of each programme, one third of which is negotiated with the University.

Modern military systems.

- A comprehensive understanding of the technical underpinning for relevant military systems.

- An awareness of developing technologies related to relevant military systems
- An understanding of concepts from a range of areas including some not currently used in military systems.

#### Operations

- Ability to conduct maritime operations up to & including Task Unit Level across the full spectrum of conflict
- Ability to manage resources in the Operations Room
- A detailed awareness of how the different sources of intelligence contribute to the overall scenario

#### Policy

- Wide knowledge and comprehensive understanding of the Rules of Engagement and the ability to advise on their application in complex situations.

#### Strategy

- Extensive knowledge and understanding of strategy and how it may be applied appropriately;
- The ability to make general evaluations of risks through some understanding of the basis of such risks.

#### Tactics

- A thorough understanding of current practice and its limitations, and some appreciation of likely new developments;
- Extensive knowledge and understanding of a wide range of factors contributing to the development of modern maritime operations

Programme Learning Outcomes					
	Knowledge and Understanding		Intellectual Skills		Subject Practical Skills
	On completion of the course students will be able to:		On completion of the course students will be able to		On completion of the course students will be able to
A1	Show a deep and systematic understanding within a specialised field of study and its interrelationship with other relevant disciplines.	B1	Use personal reflection to analyse self and own actions.	C2	Act with initiative in decision-making and accessing support within professional or given guidelines, accepting full accountability for outcomes.
A2	Demonstrates an understanding of current theoretical and methodological approaches and how these affect the way the knowledge base is interpreted.	B2	Make connections between known and unknown areas, to allow for adaptation and change.	C1	Operate in complex and unpredictable and/or specialised contexts, requiring selection and application from a wide range of advanced techniques and information sources.
		B3	Works with ideas at a level of abstraction, arguing from competing perspectives.		

In addition to the programme learning outcomes identified overleaf, the programme of study defined in this programme specification will allow students to develop a range of Key Skills as follows:

<b>Key Skills</b>						
<b>Self-Awareness Skills</b>	<b>Communication Skills</b>	<b>Interpersonal Skills</b>	<b>Research and information Literacy Skills</b>	<b>Numeracy Skills</b>	<b>Management &amp; Leadership Skills</b>	<b>Creativity and Problem Solving Skills</b>
Recognise own academic strengths and weaknesses, reflect on performance and progress and respond to feedback	Express ideas clearly and unambiguously in writing and the spoken work	Work flexibly and respond to change	Accurately cite and reference information sources	Be aware of issues of selection, accuracy and uncertainty in the collection and analysis of data	Motivate and direct others to enable an effective contribution from all participants	Work with complex ideas and justify judgements made through effective use of evidence
Organise self effectively, agreeing and setting realistic targets, accessing support where appropriate and managing time to achieve targets	Present, challenge and defend ideas and results effectively orally and in writing	Discuss and debate with others and make concession to reach agreement	Apply the ethical and legal requirements in both the access and use of information	Interpret and evaluate data to inform and justify arguments	Evidence ability to successfully complete and evaluate a task (or project), revising the plan where necessary	Apply scientific and other knowledge to analyse and evaluate information and data and to find solutions to problems
Work effectively with limited supervision in unfamiliar contexts	Actively listen and respond appropriately to ideas of others	Give, accept and respond to constructive feedback	Use software and IT technology as appropriate	Present and record data in appropriate formats	Identify resources needed to undertake the task (or project) and to schedule and manage the resources	
Take responsibility for own learning and plan for and record own personal development		Show sensitivity and respect for diverse values and beliefs	Search for and select relevant sources of information	Collect data from primary and secondary sources and use appropriate methods to manipulate and analyse this data	Determine the scope of a task (or project)	
		Work well with others in a group or team	Critically evaluate information and use it appropriately			

## C. Outline Programme Structure



4. STRUCTURE OF THE AWARD

Note: This is the normal structure for this award. Others are possible

**Successful completion of  
the PWO course or the  
equivalent Warfare  
Officers course  
(Intermediate &  
Advanced)  
120 credits of advanced  
standing**

**EITHER**

**AN ACADEMIC  
PAPER SUITABLE  
FOR PUBLICATION  
20 credits**

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#### **D. Principles of Teaching, Learning and Assessment**

Supervision is generally by Skype, email and phone. This is well suited to the mode of study of the students' who are predominantly naval officers, often on operations.

#### **E. Support for Students and their Learning**

Students are supported by an individual tutor who will provide briefing material and formative feedback on draft assignments.

The typical process for individual submissions is as follows:

- Student provided with briefing material followed by discussion with tutor if desired
- Student produces part of/ complete draft as agreed with tutor
- Tutor provides (written) formative feedback followed by discussion with tutor if desired
- Students submit "best & final" for assessment
- Submission is assessed and feedback / mark sheet is sent to student:

#### **F. Ensuring and Enhancing the Quality of the Course**

The University has several methods for evaluating and improving the quality and standards of its provision. These include:

- External examiners
- Boards of study with student representation
- Annual Monitoring and Enhancement
- Periodic review undertaken at subject level
- Moderation policies
- Feedback from employers

#### **G. Employability and work-based learning**

As stated above the students on this programme tend to be mid career Naval Officers and so are already in employment.

The students who successfully complete this programme will tend to enhance their employability prospects within their existing organisation as the skill sets that they develop are highly sought after. These skill sets are also likely to be beneficial when the student leaves the Navy to take up a civilian role.

***Work-based learning, including sandwich courses and higher or degree apprenticeships***

N/A

#### H. Other sources of information that you may wish to consult

N/A

#### I. Development of Course Learning Outcomes in Modules

This table maps where course learning outcomes are **summatively** assessed across the modules for this course. It provides an aid to academic staff in understanding how individual modules contribute to the course aims, a means to help students monitor their own learning, personal and professional development as the course progresses and a checklist for quality assurance purposes.

<b>Module Code</b>	
<b>Knowledge &amp; Understanding</b>	A1
	A2
<b>Intellectual Skills</b>	B1
	B2
	B3
<b>Practical Skills</b>	C2
	C1

**Students will be provided with formative assessment opportunities throughout the course to practise and develop their proficiency in the range of assessment methods utilised.**