



**MLA
COLLEGE**



PROGRAMME QUALITY HANDBOOK

2021 - 2022

BSc (Hons) Maritime Operations

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1. Introduction

Welcome to MLA College. We are delighted that you have chosen to study with us. This programme has been designed to equip you with the skills and knowledge base required to work in your chosen specialism within the Qatari Emiri Navy. It is also a platform from which you can undertake additional vocational and academic qualifications. We will do all we can to ensure sure you get the maximum benefit from your time studying with us.

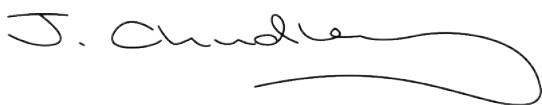
You will already know that MLA College is internationally recognised for its excellent reputation, and you will also benefit from the consistently high standards and expectations MLA College, alongside Dahra Global, brings to all aspects of its teaching and learning.

You will find that all staff are dedicated to ensuring you have the best experience possible. As well as being professional, intellectually challenging and up to date in their knowledge of the subject matter, we ensure that those teaching you do so in a research-informed, creative, responsive and engaging way. Your tutors are supported by highly experienced professional colleagues who are here to give you advice and guidance on all aspects of your studies.

As a student at MLA College and the University of Plymouth your feedback is important to allow us to continually develop our programmes. We have in place a number of surveys conducted by MLA College during your period of registration. Please do take the time to complete these surveys which will inform our plans to ensure all students continue to receive the best possible experience during their time with us.

We want you to enjoy the best study experience possible and we're here to help create the best opportunities for what you want to do next.

Welcome again to the MLA College and good luck in your studies.

A handwritten signature in black ink, appearing to read 'J. Chudley', with a long, sweeping underline that extends to the right.

Professor John Chudley, Rector

2. About this handbook

This Programme Quality handbook contains important information including:

- The approved programme specification
- Module records

Note: The information in this handbook should be read in conjunction with the current edition of:

- our [MLA College Student Handbook](#) which contains student support-based information on issues such as finance and studying at HE
- Your [University of Plymouth Student Handbook](#)

3. Programme specification

Programme Title: BSc (Hons) Maritime Operations

Partner Delivering Institution: MLA College

Start Date: Academic Year 2021-22 (February 2022)

First Award Date: 2025

Date(s) of Revision(s) to this Document:

New Programme Approval 15th June 2021

This programme specification template aligns with recommendations within the UK Quality Code for Higher Education¹. The information provided, by the programme proposer, in each section is definitively agreed between the delivering institution and University of Plymouth at approval. Therefore, any requests for changes to content (post the conditions set at approval) must follow University of Plymouth's procedures for making changes to partnership programmes².

1 QAA, 2015, Chapter B1: programme [Design, development and Approval](#)

2 If required please contact Academic Partnerships Programme Administration for assistance.

Programme Details

Awarding Institution:	University of Plymouth
Partner Institution and delivery site(s):	MLA College, The Merchant, St Andrew Street, Plymouth, PL1 2AX
Accrediting Body:	N/A
Language of Study:	English ¹
Mode of Study:	Full time
Final Award:	BSc
Intermediate Award:	None
Programme Title:	BSc Maritime Operations
UCAS Code:	N/A Applications handled directly
HECOS Code:	100194
Benchmarks:	<p>Framework for Higher Education Qualifications (FHEQ); QAA Subject Benchmarks is:</p> <p>Earth Sciences, Environmental Sciences, and Environmental Studies (2019)</p> <p>“SEEC Credit Level Descriptors for Higher Education”, Southern England Consortium for Credit Accumulation and Transfer (SEEC), 2010.</p>
Date of Programme Approval:	15th June 2021

¹ Unless otherwise approved through Plymouth University’s Academic Development and Partnerships Committee

3.1 Brief description of the Programme

This is a 3-year programme, fully residential at the “Mohammed Bin Ghanim Al Ghanim Naval Academy” leading to a BSc (Hons) in Maritime Operations. The programme focuses on navigational technology, IT and cybersecurity, shipboard operations and safety and specialised naval studies. Education and training is supported by the availability and use of specifically designed training vessels, which would cater for practical experience and time at sea in between semesters, as well as ship visits during the semester when required. The “Mohammed Bin Ghanim Al Ghanim Naval Academy” is equipped with the state-of-the-art maritime (Bridge, engine room, and naval) simulation facilities, as well as state-of-the-art laboratories, workshops, and learning hubs (library).

The programme is designed around a blended approach and fully supports student learning through lectures, tutorial, laboratory and workshop sessions, ample time in simulation facilities as well as time onboard training vessels providing a blended learning student experience. Graduates would have received education and practical experience to work as future Naval Officers in Qatar Emiri Navy (QEN) and act in accordance with the United Nations Convention for Law of the Sea (UNCLOS) protecting the national resources within the state of Qatar territorial waters and providing the nation with naval protection.

The programme develops academic knowledge and skills required to study the complex interaction of the marine environment, the human element and technology. Such student development is enabled by the combination of academic and professional expertise that the staff provide. The professional expertise of staff has often been developed in former careers including ship command, as deck and engineer officers in both the Merchant Navy and Naval forces, in senior company management and hydrographic survey.

Whilst the programme design has considered the standards and competencies required under the International Maritime Organization’s (IMO) International convention on “Standards of Training, Certification, and Watchkeeping (STCW)” it is not envisaged that graduates will be following the Merchant Navy career route.

3.2 Details of Accreditation by a Professional/Statutory Body (if appropriate)

None.

3.3 Exceptions to University of Plymouth Regulations (Non-Standard Regulations)

Note: University of Plymouth's Academic Regulations are available via [their website](#).

The University's Academic Regulations are implemented in full, with the exceptions below:

Approved by the University of Plymouth on 15th June 2021.

Instant Referrals in the event of Failure or Non-Submission: with or without submission of a valid Extenuating Circumstances claim, may be approved through MLA College's Interim Assessment and Award Board (IAAB) which then reports to the next scheduled UoP Subject Assessment Panel (SAP) and/or Award Assessment Board (AAB).

Withdrawal: any removal of recruits by the Qatari Emiri Navy will preclude that/those specific student(s) from continuing their studies on, and therefore equate to interruption of or withdrawal from, this award. For QEN driven withdrawal from modules, which may equate to full interruption of study, the student(s) will retain their attempt number when they return. For QEN driven full withdrawal from programme the Award Assessment Board will ratify the withdrawal, award any credits already gained, and retain the student(s)'s attempt number to protect any instance that would allow the student to return.

10 Credit Modules: to enable recruits and the QEN to consider all packages of study, i.e. modules, as starting and finishing within semesters, this programme is approved to include 10 credit modules, rather than the regulatory minimum of 20, within its programme structure.

Figure 3.3.1: Referral/Repeat flow for students interrupting before the completion of an undergraduate module

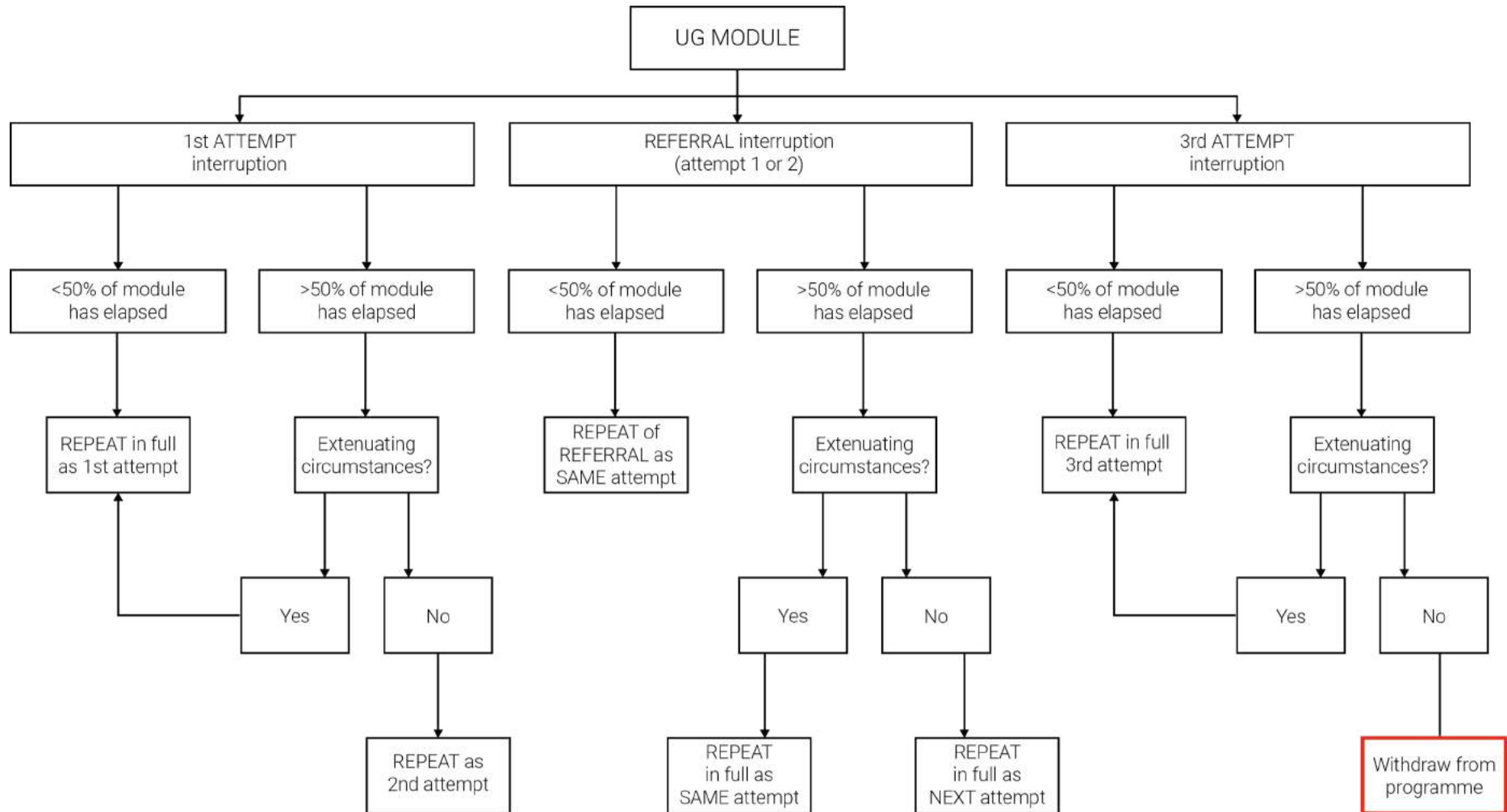
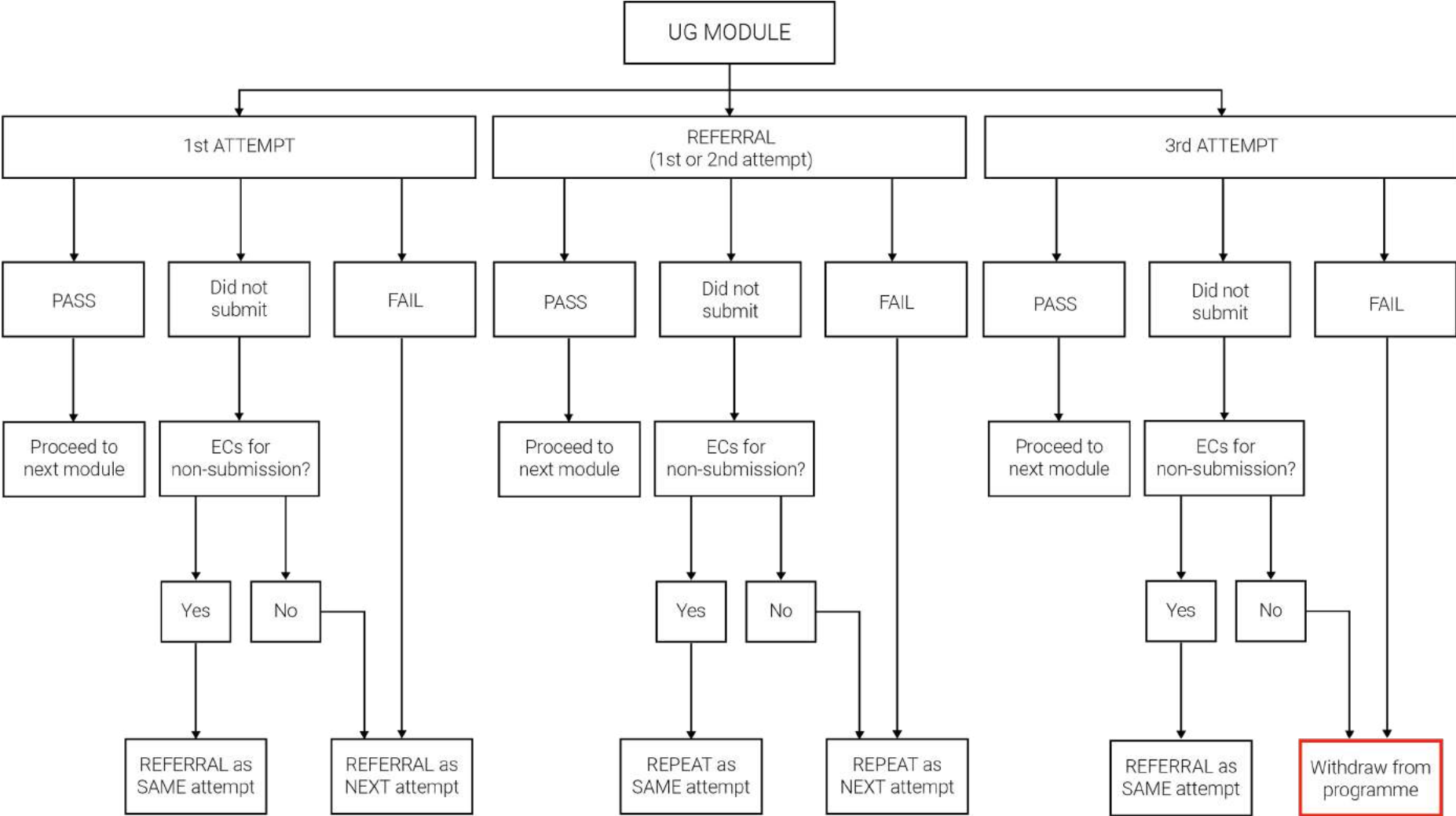


Figure 3.3.2: Referral/Repeat flow for students completing an undergraduate module



3.4 Programme structure

The structure of this programme is shown in [‘Table 3.4.1: Level 4 Modules and credit weighting’](#); [‘Table 3.4.2: Level 5 Modules and credit weighting’](#); and [‘Table 3.4.3: Level 6 Modules and credit weighting’](#).

Level 4 addresses the fundamentals of Maritime Operations such as navigation and seamanship, as well as some of the core principles that help students understand academic and study skills alongside naval operations. Mathematics and Physics will also be introduced and covered at Level 4. At the same time, a close learner-tutor relationship will help manage and embed expectations regarding study and research behaviour, allow students the chance to improve both their academic and social English and create a learning community which will foster relationships that can act as a support mechanism in future years.

All modules are compulsory.

Table 3.4.1: Level 4 Modules and credit weighting

Code	Title	Credit
Level 4 - Semester 1		
MLA416	Maritime Orientation	20
MLA417	Navigation 1	10
MLA418	Communication and Academic Skills	10
MLA419	Applied Mathematics	20
Level 4 - Semester 2		
MLA420	General Ship Knowledge (Operations)	20
MLA421	Navigation II	10
MLA422	Introduction to Information and Communication Technologies	10
MLA423	Applied Physics	20

Level 5 - This level will start to further develop and integrate concepts identified at Level 4, arguing that understanding Maritime Operations requires an appreciation of how various areas of knowledge and expertise work together in addressing naval operations and solving problems. Further navigational techniques including electronic navigational aids, seamanship, pilotage and anchoring, as well as new areas of study such as maritime communications and engineering systems will be covered.

The first semester at Level 5 also includes a module on “Safety and Emergencies at Sea” following which students will be able to embark on their first period of sea service (6 weeks) where they will be mainly observing the operation of a naval vessel without being directly involved. Whilst at sea they will undergo training on ship familiarisation and safety drills, lookout and quarter master duties and handling of berthing hawsers. On successful completion of Level 5 students will have their second period of sea time (4 weeks), where they will continue with some of the operational tasks and will also undertake navigational work such as plotting ship’s position, chartwork, familiarization with bridge and engine room equipment.

All modules are compulsory.

Table 3.4.2: Level 5 Modules and credit weighting

Code	Title	Credit
Level 5 - Semester 3		
MLA520	Coastal Navigation	20
MLA521	Seamanship I	10
MLA522	Maritime Communications	10
MLA523	Safety and Emergencies at Sea	20
Level 5 - Semester 4		
MLA524	Pilotage and Anchoring	20
MLA525	Shipborne Communications	10
MLA526	Engineering Systems	10
MLA527	Electronic Navigation Systems	20

Level 6 – This level is the culmination phase of the programme with the final year project being the focus of the study. Students will further develop their knowledge and practical experience of core subject areas of maritime and naval operational studies. Students will be mentored by tutors, delivering a variety of reports, both research-based and reflective, which document the progress and results of their projects. Level 6 also involves 2 periods of sea time where students will be more involved with operational aspect of naval vessels.

Learner autonomy is increased at Level 6. Academic input is expected to more explicitly focus on guidance and support as students are encouraged to engage independently.

All modules are compulsory.

Table 3.4.3: Level 6 Modules and credit weighting

Code	Title	Credit
Level 6 - Semester 5		
MLA619	Deep Sea Naval Operations	20
MLA620	Seamanship II	10
MLA621	Maritime Law	10
MLA622	Final year project	-
Level 6 - Semester 6		
MLA623	Bridge Resource Management	20
MLA624	Naval Studies	10
MLA625	Weapons & Sensors	10
MLA622	Final year project	40

3.5 Programme aims

Develop the academic knowledge and skills required to study the complex interaction of the maritime environment, the human element and technology.

Provide students with a range of problem-solving skills.

Provide a scientifically based and intellectually stimulating programme of study incorporating theoretical, quantitative, practical and applied aspects of the maritime and shipboard operations.

Enable students to acquire transferable, technical, and professional skills appropriate to both personal and career development.

Allow students to actively engage in research opportunities beyond that normally associated with Maritime Institutions.

Allow the student to appreciate, appraise and critique the maritime industry towards which the course is biased.

3.6 Programme intended Learning Outcomes

On successful completion graduates will be able to:

3.6.1 Knowledge and understanding

- a. Draw on the information and concepts covered in the programme, to prove their competency in the specific areas of underpinning knowledge required for serving as a naval officer.
- b. Demonstrate knowledge and understanding of calculations and methodologies required for marine position determination and prediction.
- c. Identify decision support methodologies appropriate to the marine environment, including passage planning and collision avoidance.
- d. Recognise and explain the principles and theories relevant to naval architecture, engineering and stability.

3.6.2 Cognitive and intellectual skills

On completion graduates should be able to:

- a. Independently organise information and develop their own personal development plans.
- b. Critically evaluate marine navigation techniques and shipboard practice.
- c. Understand the limits of their knowledge, and how this influences their analysis of a situation and influences decision making, both in the context of their academic work and in their contextual application at sea.
- d. Determine appropriate methodologies for solving complex safety related problems.

3.6.3 Key and transferable skills

In addition to the marine specific skills, graduates would have acquired the ability to:

- a. Make use of appropriate ICT, including standard business applications, the Internet and specialist software.
- b. Effectively communicate information, arguments and analysis in a variety of forms, including oral.
- c. Appreciate the group dynamics encountered in teamwork situations, and work effectively in a team, at any level.

3.6.4 Employment related skills

On completion graduates should have developed the following skills and be able to:

- a. Perform a supporting role in the management of situations where problem solving is a key requirement.
- b. Appraise the factors affecting trim, stability and stress for a variety of vessel types.
- c. Demonstrate qualities and transferable skills necessary for employment requiring high level of discipline and exercise of personal responsibility and decision making.

3.6.5 Practical skills

On successful completion graduates should have developed the ability to:

- a. Use safety and emergency equipment on-board
- b. Determine risk of collision and take appropriate action.
- c. Determine a vessel's stability
- d. Determine a vessel's position and appraise the limitations of the methods employed for this.

3.7 Admissions Criteria, including APCL, APEL and Disability Service arrangement

All applicants must satisfy the QEN entry requirements (physical, aptitude, citizenship) and additionally have GCSE (or equivalent) Maths and English at Grade C or above. Where schooling is undertaken in Qatar, the individual will need to have qualifications gained for secondary education, including General Secondary Education Certificates (equivalent to GCSE A*-C) and Upper Secondary Certification (equivalent to A levels) with Science options. In addition, applicants may be required to undertake a bridging course to ensure their skills level and English Language competency (spoken and written) meets MLA College's normal admissions criteria as set out in '[Table 3.7.1: MLA College Normal Admissions Criteria](#)'.

Table 3.7.1: MLA College Normal Admissions Criteria

Entry Requirements to level 4	
A-Level/AS Level/ Vocational A-level	96 points with a minimum of two A levels. This will normally be expected to include at least a pass at grade C in a science subject (Physics, Chemistry, Maths, Environmental Science) and/or other numerate discipline. AS Levels may contribute to a points offer, these qualifications may be taken into consideration as part of the admissions process.
General Studies A-Level	Will not normally be accepted as an entry qualification.
AVCE Double Award	280 with minimum of CC in a Science subject. Additional study would usually be required to achieve 280 points. 280 points =A*A*.
BTEC QCF Diploma and Extended Diploma	112 points QCF Extended Diploma. Subjects studied need to demonstrate a commitment to studying science. Additional study would normally be required to achieve 280 points with the QCF Diploma. D*D* = 112 points.
Access to Higher Education	Pass approved course in relevant subject (Science and Technology preferred but other appropriate courses considered) with 33 merits at level 3 to include 12 merits in a Science subject.
National Vocational Qualification (including Advanced Modern Apprenticeships)	An appropriate NVQ at Level 3/AMA will be considered with other information that demonstrates your ability to successfully complete the programme you have selected. A commitment to studying science needs to be demonstrated.
Scottish Qualifications Authority	120 points. At least one science subject (Physics, Chemistry, Maths, Environmental Science) passed at grade C.
Irish Leaving Certificate	H34444. At least one science subject (Physics, Chemistry, Maths, Environmental Science) passed at grade C.
European Baccalaureate	72% point to include 7.5 in Science and Maths.
International Baccalaureate	Offers will be made based on total points acquisition within the range of 28 points to include 4 in Higher Level Science or Maths. If overseas and not studying English within IB, must have IELTS 6.0 overall with 5.5 in all other elements.
Work Experience	<p>MLA College are keen to consider admission on the basis of work or life experience. Where an applicant presents with appropriate experience, this may be taken into account in lieu of certificated qualifications, regardless of age.</p> <p>Relevant industry experience will be considered on individual merit. Specific reference to APCL and APEL is made below.</p>

Table 3.7.1: MLA College Normal Admissions Criteria (continued)

Entry Requirements to level 4	
APCL/APEL	<p>The University’s regulations for Accreditation of Prior Certificated Learning (APCL) and Assessment of Prior Experiential Learning (APEL) are set out in the ‘University of Plymouth Academic Regulations’. Accreditation of Prior Certificated Learning will be considered on verification of formal qualifications in line with the University’s regulations.</p> <p>Alternatively, an applicant with credits in a non-related subject must demonstrate that they have knowledge and skills sufficient to meet the challenges and demands of this programme. If APCL credit is insufficient APEL may be considered (see below).</p> <p>Students who do not possess the level of qualifications outlined above may be eligible for admission to the programme on the basis of previous work experience or training. This will be assessed in line with the University’s policy on the Accreditation of Prior Experiential Learning (APEL). APEL will be considered towards a University of Plymouth award in respect of knowledge and skills acquired through life, work experience, and/or study which are not formally attested through certification by a recognised professional or academic body. Students applying for APEL will be required to complete a form of assessment, governed by the University of Plymouth regulations, in order to demonstrate that they have satisfied the learning outcomes of the module(s) for which credit is claimed.</p> <p>Additionally, students must provide evidence of literacy / communication skills at a level that demonstrates their ability to progress and they will be expected to demonstrate their capacity to benefit from and successfully complete the programme.</p>
English Language Requirements	<p>If students have not obtained or do not have the appropriate entry qualifications in the English language, they may be required to produce evidence of English language ability. This will normally be the equivalent of:</p> <ul style="list-style-type: none"> • GCSE Grade C or above in English language. • IELTS 6.0 overall or above with a minimum of 5.5 in all four components (listening, reading, speaking and writing) • For further information and alternatives to IELTS, see the University of Plymouth’s International Student Entry Requirements.

3.8 Progression routes/criteria for progression to Final and Intermediate Awards

Options for further study are available at Masters' Level with MLA College and University of Plymouth.

3.9 Transitional Arrangements for existing students looking to progress onto the programme

Not applicable

Section 3 Appendix 1: Programme Specification Mapping (UG)

Module contribution to the meeting of Award Learning Outcomes – Level 4

Modules		Award Learning Outcomes contributed to (for more information see Section 8)																Y/N	Assessment Element(s) and weightings E1- <u>exam</u> T1- <u>test</u> C1- <u>coursework</u> A1 – generic assessment P1 - practical				
		Knowledge & understanding				Cognitive & intellectual skills				Key & transferable skills				Employment related skills						Practical skills			
		1	2	3	4	1	2	3	4	1	2	3		1	2	3				1	2	3	4
Level 4	MLA416 Maritime Orientation	✓				✓		✓				✓				✓		✓				Y	C1: 60%, T1: 40%
	MLA417 Navigation I - 10C	✓	✓	✓		✓	✓				✓			✓		✓		✓	✓		✓	Y	C1: 50%, T1: 40%, P1:10%
	MLA418 Communication and Academic Skills - 10C	✓				✓		✓		✓	✓	✓				✓						Y	C1: 50%, P1: 50%
	MLA419 Applied Maths	✓	✓		✓			✓		✓					✓						✓	Y	E1: 60%, C1: 40%
	MLA420 General Ship Knowledge (operations)	✓				✓			✓	✓	✓	✓		✓	✓	✓		✓		✓		Y	E1: 50%, P1: 50%
	MLA421 Navigation II - 10C	✓	✓	✓		✓	✓	✓	✓		✓			✓		✓			✓		✓	Y	C1: 40%, T1: 60%
	MLA422 Introduction to ICT - 10C	✓				✓		✓		✓	✓			✓		✓						Y	E1: 60%, C1: 40%
	MLA423 Applied Physics	✓	✓		✓				✓						✓					✓		Y	E1: 70%, P1: 30%
Level 4 LOs		8	4	2	2	6	2	5	3	4	5	3		5	3	6		3	2	2	3		

Module contribution to the meeting of Award Learning Outcomes – Level 5

Modules		Award Learning Outcomes contributed to (for more information see Section 8)																Compensation Y/N	Assessment Element(s) and weightings E1- <u>exam</u> T1- <u>test</u> C1- <u>coursework</u> A1 – generic assessment P1 - practical				
		Knowledge & understanding				Cognitive & intellectual skills				Key transferable skills				Employment related skills						Practical skills			
		1	2	3	4	1	2	3	4	1	2	3		1	2	3				1	2	3	4
Level 5	MLA520 Coastal Navigation	✓	✓	✓		✓	✓	✓			✓	✓		✓		✓			✓		✓	Y	E1: 50%, P1:50%
	MLA521 Seamanship – 10C	✓		✓			✓	✓	✓		✓	✓		✓	✓	✓		✓				Y	P1: 40%, T1: 60%
	MLA522 Maritime Communications – 10C	✓		✓		✓	✓			✓	✓	✓				✓		✓				Y	E1:70%, P1:30%
	MLA523 Safety and Emergencies at Sea	✓			✓	✓		✓	✓			✓		✓		✓		✓		✓		Y	C1:50%, P1:50%,
	MLA524 Pilotage and Anchoring	✓	✓	✓		✓		✓	✓	✓		✓		✓		✓			✓		✓	Y	E1:50%, P1:50%
	MLA525 Shipborne Communication – 10C	✓		✓		✓	✓		✓	✓	✓			✓		✓		✓				Y	C1:50%, P1:50%
	MLA526 Engineering Systems – 10C	✓			✓		✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		Y	E1:70%, P1:30%
	MLA527 Electronic Navigation Systems	✓	✓	✓			✓	✓	✓	✓	✓							✓	✓		✓	Y	E1:50%, P1:50%
Level 5 LOs		8	3	6	2	5	6	6	5	5	6	6		6	2	7		6	4	2	3		

Module contribution to the meeting of Award Learning Outcomes – Level 6

Modules		Award Learning Outcomes contributed to (for more information see Section 8)																Compensation Y/N	Assessment Element(s) and weightings E1- exam T1- test C1- coursework A1 – generic assessment P1 - practical				
		Knowledge & understanding				Cognitive & intellectual skills				Key & transferable skills				Employment related skills						Practical skills			
		1	2	3	4	1	2	3	4	1	2	3		1	2	3				1	2	3	4
Level 6	MLA619 Deep Sea Naval Operations	✓	✓	✓		✓	✓	✓	✓		✓	✓		✓		✓			✓		✓	Y	P1:50%, T1:50%
	MLA620 Seamanship II – 10C	✓	✓	✓	✓		✓	✓			✓	✓		✓	✓	✓		✓	✓	✓		Y	E1:50%, P1:50%
	MLA621 Maritime Law – 10C	✓				✓		✓	✓		✓					✓						Y	E1: 60%, C1: 40%
	MLA623 Bridge Resource Management	✓	✓	✓		✓	✓	✓			✓	✓		✓		✓			✓		✓	Y	C1:40%, P1:60%
	MLA624 Naval Studies – 10C	✓				✓	✓		✓		✓	✓		✓		✓						Y	E1:50%, C1:50%
	MLA625 Weapons & Sensors – 10C	✓					✓		✓	✓						✓		✓				Y	T1:50%, C1:50%
	MLA622 Dissertation – 40C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓				✓		N	C1: 85%P1:15%
Level 6 LOs		8	4	4	2	5	6	5	5	2	6	5		5	2	8		2	3	2	2		
Confirmed Award LOs																							

4. Module records

Code	Title	Credit
Level 4 - Semester 1		
MLA416	Maritime Orientation	20
MLA417	Navigation 1	10
MLA418	Communication and Academic Skills	10
MLA419	Applied Mathematics	20
Level 4 - Semester 2		
MLA420	General Ship Knowledge (Operations)	20
MLA421	Navigation II	10
MLA422	Introduction to Information and Communication Technologies	10
MLA423	Applied Physics	20
Level 5 - Semester 3		
MLA520	Coastal Navigation	20
MLA521	Seamanship I	10
MLA522	Maritime Communications	10
MLA523	Safety and Emergencies at Sea	20
Level 5 - Semester 4		
MLA524	Pilotage and Anchoring	20
MLA525	Shipborne Communications	10
MLA526	Engineering Systems	10
MLA527	Electronic Navigation Systems	20

Code	Title	Credit
Level 6 - Semester 5		
MLA619	Deep Sea Naval Operations	20
MLA620	Seamanship II	10
MLA621	Maritime Law	10
MLA622	Final year project	-
Level 6 - Semester 6		
MLA623	Bridge Resource Management	20
MLA624	Naval Studies	10
MLA625	Weapons & Sensors	10
MLA622	Final year project	40

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA416 **MODULE TITLE:** Maritime Orientation

CREDITS: 20 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module introduces the students to various aspects of naval environment, organisational and operational structure, including maritime terminology routinely used onboard a ship. Frequent visits to ships will be undertaken as part of this module.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	40%	C1 (Coursework)	60%	P1 (Practical)	00%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with their first exposure to a naval environment, including customs and values, variety of ship types, their compartments, and maritime terminology through a series of lectures, tutorials, video presentations, and ship visits.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Identify various ship types and their functions within the fleet, along with various compartments and their purposes within a ship	KU1, CI1, PS1
Identify and list deck fittings and equipment on-board and their usage.	KU1, CI3, PS1
Discuss commonly used maritime terms in the Navy and include its usage in common vocabulary.	KU1, CI1
Describe military customs, courtesies, core values, discipline, morals, and ethics, including cadets' code of conduct.	KU1, CI1, ER1, ER3
Review and report organisational and department structure in the Navy.	KU1, KT3, ER1, ER3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

Additional Guidance for Learning Outcomes:

To ensure that the module is pitched at the right level check your intended learning outcomes against the following nationally agreed standards

Framework for Higher Education Qualifications

<http://www.qaa.ac.uk/docs/qaa/quality-code/qualifications-frameworks.pdf>

Subject benchmark statements <https://www.qaa.ac.uk/quality-code/subject-benchmark-statements>

Professional, regulatory and statutory (PSRB) accreditation requirements (where necessary e.g. health and social care, medicine, engineering, psychology, architecture, teaching, law)

QAA Quality Code <https://www.qaa.ac.uk/quality-code>

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr. S R Shinde (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

Naval platforms,
Ship familiarisation,
Maritime Terminology,
Naval Value System,
Naval Organisation,
Watch Organisation,
Department structure

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	70	Lecture, small group discussions, chance for interactive class participation
Tutorial	30	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Field Trips	10	Visit to ports and ships
Independent Study	90	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 1, 2 and 3	100%
Coursework	Take home assignment ALOs 4 and 5	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 1, 2 and 3	100%
Coursework	Take home assignment on ALOs 4 and 5	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX
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UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA417 **MODULE TITLE:** Navigation I

CREDITS: 10 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module is designed to form the foundation that will help students to develop an understanding of watchkeeping duties, basic passage planning, and introduction to the Rules of the Road (RoR).

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	40%	C1 (Coursework)	50%	P1 (Practical)	10%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

Navigation is one of the main strands in this programme. This module aims to provide the students with some elementary but critical aspects of navigation, including position fixing, compass work, collision avoidance regulations and communications.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Discuss the fundamentals of observing gyro and magnetic compass bearings and be able to calculate true bearing from compass bearing.	KU1, KU2, KU3, CI2
Outline how position on Earth can be determined and calculate speed and direction of a vessel.	KU1, KU2, KU3, CI1, PS4
Discuss the genesis of IMO, IRPCS, and the structure of RoR, in particular Rules, 1, 2, and 3.	
Demonstrate visual communication procedures like Semaphore and Flashing and use of morse code for communication.	KU3, CI4, ER1, ER3, PS2
Explain the significance of flags and their usage in military and the meaning of alphabetical/ numerical flags and pennants.	KU1, KT2, PS1
	KU1, KT2, PS1,

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DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

**MODULE LEADER: Cdr M Madaiya OTHER MODULE STAFF: None
(Retd)**

Summary of Module Content:

Compass work and errors (magnetic, Gyro, Inertial, GPS, etc.), Positioning, Speed & Direction

International Maritime Organization and International Regulations for Prevention of Collisions at Sea

Visual Communication, Flags

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]

Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	10	Supervised Laboratory or workshop
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 3 and 4	100%
Coursework	Take home assignment on ALOs 1, 2 and 5	100%
Practical	Assessed practical work on ALO 4	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 3 and 4	100%
Coursework	Take home assignment on LOs 1, 2 and 5	100%
Practical	Assessed Practical work on ALO 4	100%

To be completed when presented for Minor Change approval and/or annually updated	
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UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA418 **MODULE TITLE:** Communications and Academic Skills

CREDITS: 10 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module is designed to improve students' research and text-processing skills to enable them to study independently in a higher education environment. Shipboard communication "Maritime English" will be introduced and discussed.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	00%	C1 (Coursework)	50%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with a focus on the relevant transferable and portable skills of effective and professional communication to support further study at a variety of levels, whether it involves higher education or further post-degree vocational programmes and/or professional awards, as well as providing a basis to foster career and life-building skills.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Develop and apply effective study skills and time management techniques	KU1, C11, C13
Demonstrate research, reading, note taking and essay writing techniques	C11,
Communicate and deliver an effective oral presentation	KT2, KT3
Demonstrate techniques for finding, utilising, and referencing information	KU1, C11, KT1
Use Standard Marine Communication Phrases (SMCP)	KU1, KT2, ER3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Prof. M Pourzanjani

OTHER MODULE STAFF: Cdr P Sinha (Retd)

Summary of Module Content:

Introduction, Learning styles; Time management, Note taking, Information Literacy

Paraphrasing and summarising, Referencing

Presentation skills, Essay Writing, Group work, Exam Techniques

Standard Marine Communication Phrases

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]

Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Tutorial	15	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	20	Supervised Laboratory or workshop
Independent study	35	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1, 2 and 4	100%
Practical	Individual and group presentation on ALOs 3 and 5	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1, 2 and 4	100%
Practical	Individual and group presentation on ALOs 3 and 5	100%

To be completed when presented for Minor Change approval and/or annually updated	
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UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA419 **MODULE TITLE:** Applied Mathematics

CREDITS: 20 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module is developed to improve the mathematical abilities of students towards an advanced level of applied mathematics and enable them to use mathematical tools for modelling maritime and technical processes.

ELEMENTS OF ASSESSMENT <i>[Use HESA KIS definitions]</i>					
E1 (Examination)	60%	C1 (Coursework)	40%	P1 (Practical)	N/A

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the required level of knowledge and skills in mathematics in preparation of further technical subjects.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Formulate and solve mathematical equations	KU1, KU2, KU4
Apply differentiation to calculate max and min values, and integrate algebraic and non-algebraic expressions, use to calculate area	KU1, ER2
Collect, tabulate and graph data, and calculate summary statistics	KU1, KT1,
Solve spherical trigonometry problems	KU1, CI3, ER2, PS4

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr V Shekhar OTHER MODULE STAFF: None (Retd)

Summary of Module Content:

Overview of Arithmetic, fractions

Set Theory, Basic Algebra, Equations, Linear Equations, Geometry

Quadratic equation, Vector analysis

Introduction to Differentiation, Introduction to Integration

Graphs & Graphical solutions, Statistics & Probability, Trigonometry

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	80	Lecture, small group discussions, chance for interactive class participation
Tutorial	40	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	80	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 4	100%
Coursework	Take home assignment on ALOs 2 and 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 4	100%
Coursework	Take home assignment on ALOs 2 and 3	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by:	Approved by:

Date: XX/XX/XXXX

Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA420 **MODULE TITLE:** General Ship Knowledge (Operations)

CREDITS: 20 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This introductory module provides the students with elementary but critical knowledge of various aspects of maritime operations, which includes rope work, rigging, boat work, and relevant elements of ship stability and construction. The module includes visit to ships and work in seamanship workshops.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	50%	C1 (Coursework)	00%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the required level of knowledge in stability and ship construction, as well as introductory practical skills in seamanship.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Apply theoretical techniques to rigging practice, identify different types of ropes and use specific knots typically used in rigging during shipboard operations.	KU1, CI1, ER1, PS1
Relate the importance of structural parts of a ship’s hull to the stresses it is subjected to.	KU4, CI4, ER2
Carry out calculation of vessel’s transverse stability	KU4, CI4, KT1, ER2, PS3
Review and report safety requirements in boat operations	KU1, CI4, KT2, KT3, ER1, ER3, PS1

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr. S R Shinde (Retd) **OTHER MODULE STAFF: None**

Summary of Module Content:

Rope Work, Rigging, Boat work

Ship Stability, Ship Construction

Safe working Practices

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	60	Lecture, small group discussions, chance for interactive class participation
Tutorial	30	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Field Trips	30	Visit to ports and ships
Practical	20	Seamanship workshop
Independent study	60	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 2 and 3	100%
Practical	Assessed practical work on ALOs 1 and 4	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 2 and 3	100%
Practical	Assessed practical work on ALOs 1 and 4	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA421 **MODULE TITLE:** Navigation II

CREDITS: 10 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module reinforces and continues the learning of the navigational skills covered in “Navigation I” and extend these to cover ocean navigation. The student will learn and understand relevant elements of meteorology, Astro navigation and tides and currents, and how to calculate them. Further Steering and Sailing Rules related to conduct of vessels in any condition of visibility will be covered.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	60%	C1 (Coursework)	40%	P1 (Practical)	N/A

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with further underpinning knowledge and understanding of navigation and collision avoidance regulations.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Identify and locate stars in major constellations.	KU1, KU2, KU3, CI2, CI4, PS4
Calculate the Range and Duration of Tide and estimate its period based on the combined effects of the Sun and the Moon.	KU1, KU2, KU3, CI2, CI4, ER1
Discuss stages of water cycle, cloud formation and its types, and describe sea state based on wind conditions and wave height.	KU1, KU3, CI2
List and apply Rules 4 to 10 of the IRPCS to prevent collision	KU1, KU3, CI1, CI2, CI3, KT2, ER3, PS2

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA

DATE(S) OF APPROVED CHANGE: N/A
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SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cmde S Balakrishnan OTHER MODULE STAFF: None (Retd)

Summary of Module Content:

Astro Navigation, Celestial Sphere, Constellations, Sunrise & Sunset, Time Zones

Tides and Current, Meteorology

Theory of tides, Tidal levels, Times and height of tides, Tide tables and atlases

Pressure systems and measurements, Instruments, Beaufort wind scale, Fog formation, Weather forecast

Collision Regulation (RoR)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Tutorial	30	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class tests on ALOs 1, 2 and 4	100%
Coursework	Take home assignment on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 1, 2 and 4	100%
Coursework	Take home assignment on ALO 3	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by:

Date: XX/XX/XXXX

Approved by:

Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA422 **MODULE TITLE:** Introduction to Information and Communication Technologies

CREDITS: 10 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module provides learning opportunities for students to be introduced to a variety of subjects and technologies related to Information technologies and communication systems as they apply to shipboard operations.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	60%	C1 (Coursework)	40%	P1 (Practical)	N/A

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with an overview of the Information and Communication Technologies (ICT) as they relate to shipboard operations.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Identify various components of a computer system and explain how computers process information	KU1, CI1, KT1,
Provide definitions for terms associated with communication and networking	KU1, KU3, KT1,
Discuss the global connectivity and communication systems	KU1, CI3, KT1, KT2
Identify sources of cyber risk	KU1, CI1, CI3, ER1, ER3,

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
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DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr V Chaudhary (Retd) **OTHER MODULE STAFF: None**

Summary of Module Content:

Computer Structure & Computing: (hardware, software, firmware)

Software applications, Information security

Contemporary ICT (*Internet & Global Connectivity, GSM and Satellite systems, Big data, Cloud Computing*)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Tutorial	30	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Coursework	Take home assignment on ALOs 3 and 4	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Coursework	Take home assignment on ALOs 3 and 4	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA423 **MODULE TITLE:** Applied Physics

CREDITS: 20 **FHEQ LEVEL:** 4 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module is designed to improve students' knowledge in physics towards an advanced level of applied physics and enable them to use physics laws and tools for modelling maritime and technical processes. The module will also cover basic elements of electricity, wave theory and electromagnetic waves and their propagation.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	70%	C1 (Coursework)	00%	P1 (Practical)	30%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the knowledge and understanding of principles of physics as they apply to and are required for stage 2 and 3 modules.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Apply physics laws to motions and behaviour of a ship	KU1, KU4, CI4, ER2
Explain and perform calculation using physics laws as applied to maritime operations	KU1, KU4, CI4, ER2
Discuss fundamental principles of electricity, wave theory, EM waves and their propagation	KU1, KU2, CI4, PS3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Capt. A Jain (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

Newton's Laws (Gravity, static and dynamic friction)

Acceleration and Inertia; Kinematics; Work, Energy and Power; Light and Sound

Thermal Properties of Matter

Mechanical Properties of Solids; Mechanical Properties of Fluids

Wave and oscillation theory; Electricity, Electromagnetic waves: Properties and propagation

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	60	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	40	Supervised Laboratory or workshop
Independent study	80	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on LOs 1 and 2	100%
Coursework	Take home assignment on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 2	100%
Coursework	Take home assignment on ALO 3	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA520 MODULE TITLE: Coastal Navigation
CREDITS: 20 FHEQ LEVEL: 5 HECOS CODE: 100194
PRE-REQUISITES: None CO-REQUISITES: None COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR:

This module provides opportunities for the students to learn how to interpret charts, plot a ship's position using a variety of methods, predict the ship's position allowing for tidal currents, and compute courses to steer to counteract tidal streams. Students will be able to apply corrections to magnetic and gyro compass readings. The techniques learned will be used to prepare basic passage plans.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	50%	C1 (Coursework)	00%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The main aim of this module is to introduce the student to the theoretical knowledge and practical techniques required to navigate a ship in coastal waters, including further studies of the collision regulations.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Interpret information on a navigational chart	KU1, KU2, KU3, CI2, KT2, PS4
Determine a ship's position using terrestrial landmarks and electronic aids to navigation	KU1, KU2, KU3, CI2, PS4
Demonstrate proficiency in passage planning and monitoring using a ship simulator	KU1, KU3, CI1, CI2, CI3, KT2, KT3, ER1, ER3,
Recognise and follow conning orders	
Apply Steering & Sailing Rules of the Road to avoid collision	KU1, KU3, CI2, KT2 KU1, KU3, CI2, CI3, PS2, PS4

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Capt MA Kandhan (Retd) OTHER MODULE STAFF: None

Summary of Module Content:

The Navigational Chart, Position fixing, Direction on the Chart

Passage Planning, Conning and Steering; Visual and Audible aids to Navigation

RoR: (*Steering & Sailing Rules (Section II & III)*)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	40	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	60	Supervised simulated voyage
Independent study	80	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 2	100%
Practical	Assessed simulation exercise covering ALOs 3, 4, 5	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 2	100%
Practical	Assessed simulation exercise covering ALOs 3, 4, 5	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by:	Approved by:

Date: XX/XX/XXXX

Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA521 **MODULE TITLE:** Seamanship I
CREDITS: 10 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module is developed to provide the students with detailed knowledge of various types and anchors and cables, and operational procedures for anchoring and using cables for moorings.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	60%	C1 (Coursework)	00%	P1 (Practical)	40%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the required level of knowledge and practical experience of anchor types, anchor cables, and mooring a vessel using cables.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Compare and contrast different anchor types and their uses, highlighting various parts of ground tackles Calculate forces on Anchor and chain systems under varying wind and current conditions Appraise various stages of anchoring procedures	KU1, KU3, CI2, KU1, CI2, CI3, CI4, ER2, KU1, CI2, KT2, KT3, ER1, ER3, PS1

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr S Shinde (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

Anchor Chain cable & fittings

*Types and parts of anchor; Chain cable and grades of Cable; Marking of cable
Cable Deck Fittings; Associated equipment*

Anchor work

Terms used; Composition of Cable Party; Occasions for anchoring and cable party

*Selection of anchor berth and length of cable, Preparation of anchor for letting go & Letting go
Procedure; Anchor watch, Anchor flags; Environmental loads on anchors and chains;*

Weighing and securing anchor; Types of moorings; Securing to buoy – procedure

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	40	Lecture, small group discussions, chance for interactive class participation
Practical	20	Supervised workshop and shipboard work
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Test	60 minutes in class test on ALOs 2 and 3	100%
Practical	Assessed practical work on ALO 1	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Test	60 minutes in class test on ALOs 2 and 3	100%
Practical	Assessed practical work on ALO 1	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by:
Date: XX/XX/XXXX

Approved by:
Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA522 **MODULE TITLE:** Maritime Communications
CREDITS: 10 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y
SHORT MODULE DESCRIPTOR:

This module provides the students with fundamentals of maritime communications and includes how ships communicate with shore-based stations as well with other vessels.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	70%	C1 (Coursework)	00%	P1 (Practical)	30%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to introduce the students to theoretical aspects of radio communications and practical aspects of ship-shore and ship-ship communications.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Examine applications of wave theory to shipboard communications, outlining properties and disturbances With the aid of diagrams explain EM waves, properties, and their propagation Demonstrate procedures in ship-ship and ship-shore communications	KU1, KU3 KU1, KU3, CI2, KU1, KU3, CI1, CI2, KT1, KT2, KT3, ER3, PS1

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr L Anand (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

- Introduction to Communication
- Basic Foundations, Waves, Properties of Waves
- Electromagnetic waves and Propagation
- Ship-shore communication
- Ship-ship communication

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Tutorial	10	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	20	Supervised Laboratory or workshop
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Practical	Assessed practical on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Practical	Assessed practical on ALO 3	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA523 **MODULE TITLE:** Safety and Emergencies at Sea
CREDITS: 20 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** N

SHORT MODULE DESCRIPTOR:

This module covers the basic safety and security requirements for maritime operations; aspects of this module include basic firefighting, elementary first aid, ship and port security, personal survival training and enclosed space entry. This module can be delivered as block teaching within the semester and the appropriate learning outcome(s) will be assessed at the end of each element.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	00%	C1 (Coursework)	50%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the required level of knowledge and practical experience of personal safety and handling emergencies onboard a vessel.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Review and report the theory of fire safety and firefighting and damage control aboard ships	KU1, KU4, CI1, CI3, ER1, PS1, PS3
Describe the principles of medical first aid and carry out basic medical first aid procedures	KU1, CI1, KT3, PS1
Demonstrate survival at sea procedures and techniques	KU1, CI1, KT3, ER1, PS1
Discuss the minimum standard of competence for personnel with designated security duties on board ship	KU1, CI1, PS1
Describe the shipboard procedures to ensure safe entry into an enclosed space	KU1, CI1, CI3, CI4, KT3, ER1, ER3, PS1

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr V Chaudhary OTHER MODULE STAFF: None (Retd)

Summary of Module Content:

Enclosed Space entry – theory and Practice, Designated Security duties, Firefighting, Medical First Aid

Personal Survival, Damage Control, NBC

SOLAS (Ch II-2, Ch III, LSA Code, ISM Code) & MARPOL (Annex I)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Practical	100	Supervised Laboratory or workshop
Independent study	70	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1, 2 and 5	100%
Practical	Assessed practical work on ALOs 3 and 4	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1, 2 and 5	100%
Practical	Assessed practical work on ALOs 3 and 4	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA524 **MODULE TITLE:** Pilotage and Anchoring
CREDITS: 20 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

Port approaches and ship manoeuvring in high traffic density area is covered in this module, with particular attention to planning the passage, and using appropriate navigational aids. Further aspects of the collision regulations will also be covered.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	50%	C1 (Coursework)	00%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with theoretical knowledge and practical application of coastal navigation in particular port approaches, dense traffic areas, and selection of anchorage location.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Calculate and Plot ship's position using different sets of information taking into account errors	KU1, KU2, KU3, KT1, PS2, PS4
Give examples of IALA lights and buoyage systems and their uses	KU1, KU2, KU3, CI3
Produce a passage plan for port approaches outlining factors to be taken in to account	KU1, KU2, CI1
Determine a suitable anchorage position	KU1, KU3, KT3, ER1
Apply RoR in Night & Low Visibility conditions	KU3, CI4, ER3, PS2

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cmde S Balakrishnan OTHER MODULE STAFF: None (Retd)

Summary of Module Content:

- Pilotage, Chart work (*Methods of plotting ship's Position, Geographical range, Nominal Range, IALA -Region A*)
- Relative Velocity & Radian Rule, Turning Circle; Planning approaches for anchoring
- Choosing a position to anchor; Limiting Danger Line, Swinging Circles
- RoR: Lights & Shapes

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	60	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	40	Supervised Laboratory or workshop
Independent study	80	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 2	100%
Practical	Practical and Presentation on ALOs 3, 4 and 5	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALOs 1 and 2	100%
Practical	Practical and presentation on ALOs 3, 4 and 5	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA525 **MODULE TITLE:** Shipborne Communications
CREDITS: 10 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module builds on knowledge gained in previous modules and provides further learning opportunities in both theoretical and operational aspects of shipborne communications systems, e.g. VHF, GMDSS, Satellite Communication, GSM networks.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	00%	C1 (Coursework)	50%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the required level of knowledge communications systems carried on board as well as practical experience operating these systems.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Compare and contrast various shipboard communications systems and components	KU1, KU3, CI2, KT1
Critically discuss theory of signal transmission and reception as employed in shipboard systems	KU1, CI4
Demonstrate operation of GMDSS and other shipboard communication systems	KU1, CI1, CI2, KT1, KT2, KT3, ER1, ER3, PS1

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr P Sinha (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

- Communication model
- Signal and medium of communication
- Transmitter and receiver
- Modulation and demodulation
- Power and decibels
- Antenna and its parameters
- Basic digital communications
- GMDSS, SatCom, GSM

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	20	Lecture, small group discussions, chance for interactive class participation
Tutorial	10	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	30	Supervised Laboratory or workshop
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1 and 2	100%
Practical	Practical assessed work on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1 and 2	100%
Practical	Practical assessed work on ALO 3	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by: XX/XX/XXXX	Date:	Approved by: Date: XX/XX/XXXX
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UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA526 **MODULE TITLE:** Engineering Systems
CREDITS: 10 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module provides the students with an introduction to basic design and operation of various engineering systems onboard a ship and scope of work in the engineering department. Lectures and tutorials are complemented by ship visits and engine room simulator work.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	70%	C1 (Coursework)	00%	P1 (Practical)	30%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with sufficient exposure to various engineering systems to understand the routine operation of engine room.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Distinguish key operating parameters and operation of various ship machinery systems	KU1, KU4, PS3
Investigate and analyse operation of a typical ship's steering gear	KU1, CI2, CI3, KT1, ER2, PS1, PS2
Explain Roles and duties in Engineering Dept, including Electro-Tech Officers	KU1, CI1, CI2, KT2, KT3, ER1, ER3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr P Banerjee OTHER MODULE STAFF: None (Retd)

Summary of Module Content:

Propulsion Systems; Diesel Propulsion Plant; Auxiliary Systems; Pumping and Piping Systems

Propeller Types & Shaft Component; Rudder & Steering Gear

Air Conditioning & Refrigeration; Power Generation & Distribution

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	20	Supervised workshop and ship visits
Independent study	30	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination paper on ALOs 1 and 3	100%
Practical	Assessed practical work on ALO 2	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination paper	100%
Practical	Assessed practical work on ALO 2	100%

To be completed when presented for Minor Change approval and/or annually updated		
Updated by: XX/XX/XXXX	Date:	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA527 **MODULE TITLE:** Electronic Navigation Systems

CREDITS: 20 **FHEQ LEVEL:** 5 **HECOS CODE:** 100194

PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

Design and operation of various Electronic Navigation Systems, including errors associated with their use is covered. In particular Radar, ARPA and ECDIS are covered.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	50%	C1 (Coursework)	00%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims at providing the students with the knowledge on the principles of function, handling, accuracy limits and possible errors of navigation equipment, e.g. Radar, ARPA, ECDIS. The module also provides the candidates with skills for radar and ARPA operation during a bridge watch in restricted visibility. Parts of this module will be delivered by means of a radar/ARPA simulator.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Compare and contrast principles of operation of various electronic navigation systems	KU1, KU2, KU3, CI2, CI4, KT1,
Demonstrate proficiency in operation of various electronic navigation systems including Radar/ARPA and ECDIS to maintain the safety of navigation	KU1, KU2, KU3, CI2, CI4, KT1, KT2
Determine ship's position by use of electronic navigational aids including Radar and (D)GPS.	KU1, KU2, KU3, CI2, CI3, KT1, PS1, PS2, PS4
DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

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ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Capt A Jain (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

Basic Principles and Limitations

GPS, ECDIS, AIS, Log, Echo Sounder

Radar & ARPA (*Performance, Target detection, Plotting, Operation ARPA basics, ARPA operations, ARPA Simulation*)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	60	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	60	Supervised Laboratory or workshop
Independent study	60	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALO 1	100%
Practical	Assessed practical work on ALOs 2 and 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	90 minutes examination on ALO 1	100%
Practical	Assessed Practical work on ALOs 2 and 3	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by:

Date: XX/XX/XXXX

Approved by:

Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA619 **MODULE TITLE:** Deep Sea Naval Operations
CREDITS: 20 **FHEQ LEVEL:** 6 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

Operation of naval vessels in deep open waters will be discussed, including fleet work, naval formations and manoeuvrings, conning and control and further collision regulations exercises.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	50%	C1 (Coursework)	00%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with detailed and in-depth knowledge of naval operations, in deep and open waters. Student will be exposed to routine and non-routine operational formations and learn further about conning and control in naval ships. Further aspects of RoR will be introduced and practiced.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Analyse different and critically evaluate naval formation structure and manoeuvring procedures	KU1, CI1, CI2, CI4, PS2, PS4
Compare application and use of various communication publications	KU1, KU2,
Demonstrate proficiency in conning and control	KU1, KU3, CI1, CI3, KT2, KT3, ER1, ER3, PS2
Analyse and evaluate crossing and overtaking situations and apply RoR to avoid Collision at sea.	KU1, KU3, CI1, CI2, CI3, ER3, PS2

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr M Madaiya (Retd) OTHER MODULE STAFF: None

Summary of Module Content:

- Communication publications
- Fleet-work
- Naval Formations & Manoeuvring
- Conning and Control
- RoR: Sound & Light Signals

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	80	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	50	Supervised Laboratory or workshop
Independent study	50	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class tests on ALOs 1 and 2	100%
Practical	Assessed practical work on ALOs 3 and 4	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 1 and 2	100%
Practical	Assessed practical work on ALOs 3 and 4	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA620 **MODULE TITLE:** Seamanship II
CREDITS: 10 **FHEQ LEVEL:** 6 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

Towing and replenishment at sea are two important operational aspect of deep-sea operation during peace time and conflict period that will be discussed in detail in this module.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	50%	C1 (Coursework)	00%	P1 (Practical)	50%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the theoretical and practical aspects of deep-sea operations in particular Towing and Replenishment at sea. These form a major part of naval activities during peace and conflict periods.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Critically appraise towing operation requirements	KU1, KU2, KU3, KU4, CI2, ER2
Critically review procedures for Underway Replenishment (UNREP) at sea and its purpose	KU1, KU2, KU3, KU4, CI2
Review, analyse and evaluate safety and emergency procedures for towing and UNREP	CI2, CI3, CI4, KT2, KT3, ER1, ER3, PS1, PS2, PS3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr S Shinde (Retd) OTHER MODULE STAFF: None

Summary of Module Content:

Towing

(Towing Gear for towing & Towed ship, Methods of making contact, Preparation, towing and towed vessels, Procedure of passing gears, Disconnecting the tow)

Replenishment

(Intro to UNREP, Light Jackstay, required gear, Making Contact, Disengaging procedure, Fuelling at sea, Safety during UNREP, Emergency breakaway)

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	30	Lecture, small group discussions, chance for interactive class participation
Practical	30	Supervised Laboratory or workshop
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Practical	Assessed Practical work on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Practical	Assessed Practical work on ALO 3	100%
To be completed when presented for Minor Change approval and/or annually updated		
Updated by: Date: XX/XX/XXXX		Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA621 **MODULE TITLE:** Maritime Law
CREDITS: 10 **FHEQ LEVEL:** 6 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module provides the students with knowledge and understanding of principles, terminology and relevance of national law systems and jurisdiction and knowledge and understanding of principles and relevance of international law (UNCLOS, IMO conventions and codes) and their application.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	60%	C1 (Coursework)	40%	P1 (Practical)	00%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with knowledge and understanding of national and international maritime law.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Interpret national and international law as they apply to Qatar Exclusive Economic Zone	KU1, CI1, CI3
Critically evaluate role of the IMO and UN and list relevant Conventions and Codes	KU1, CI1, CI3, KT2
Apply critically analyse UNCLOS for national jurisdiction	KU1, CI4, ER1, ER3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Feb to June

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Capt MA Kandhan (Retd) **OTHER MODULE STAFF: None**

Summary of Module Content:

- National Law and Jurisdiction
- International Law and Treaties
- UN and IMO
- UNCLOS – maritime zones
- IMO Conventions and Codes
- Role of the Navy

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	40	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Coursework	Take home assignment on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALOs 1 and 2	100%
Coursework	Take home assignment on ALO 3	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by: XX/XX/XXXX	Date:	Approved by: Date: XX/XX/XXXX
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UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA623 **MODULE TITLE:** Bridge Resource Management
CREDITS: 20 **FHEQ LEVEL:** 6 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** N

SHORT MODULE DESCRIPTOR:

Students will gain experience in handling ships both real and simulated conditions and will make contribution to the bridge team decision making during ship manoeuvring, in particular: familiarization with the use of engines and helm for ship manoeuvring; an understanding of the effects on the behaviour of the ship of wind, current, shallow water, banks and narrow channels; a greater awareness of the importance of planning a passage or manoeuvre and the need for alternative plans.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	00%	C1 (Coursework)	40%	P1 (Practical)	60%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

The module aims to ensure that students are familiar with bridge resource management and roles and responsibilities on the bridge.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Appraise duties of an officer in charge of a navigational watch	KU1, KU2, KU3, CI1, CI2, CI3, KT2, KT3, ER1,
Apply and evaluate knowledge, understanding and proficiency in principles of ships' manoeuvring characteristics for different vessels	KU1, KU2, KU3, CI2, CI3
Apply transferable team working skills within a bridge environment	
Apply, analyse and evaluate voyage planning principles and techniques.	KU1, CI1, CI2, CI3, KT2, KT3, ER1, ER3, PS2, PS4
	KU1, CI2

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr L Anand (Retd)

OTHER MODULE STAFF: None

Summary of Module Content:

- Bridge Resource management exercises in the full bridge simulator
- Ship handling; Consolidation of Collision Regulation

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	40	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Practical	80	Supervised simulator and real ship exercises
Independent study	60	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	200	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1 and 2	100%
Practical	Assessed simulator work on ALOs 3, 4 and 5	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Take home assignment on ALOs 1 and 2	100%
Practical	Assessed simulator work on ALOs 3, 4 and 5	100%

To be completed when presented for Minor Change approval and/or annually updated		
Updated by: XX/XX/XXXX	Date:	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA624 **MODULE TITLE:** Naval Studies
CREDITS: 10 **FHEQ LEVEL:** 6 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** Y

SHORT MODULE DESCRIPTOR:

This module covers detailed aspects of command and control, organization for logistics, service and support, and services of major components of typical naval force and naval personnel, shipboard organization with emphasis on management and leadership functions are important elements to be covered. Characteristics of “Sea Power” and their impact on the national affairs. Historical and modern applications to the state of Qatar, the Arabian Gulf region and other world powers.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
E1 (Examination)	50%	C1 (Coursework)	50%	P1 (Practical)	00%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with detailed and in-depth knowledge of Naval organisations and management practices within the context of a naval force, including command and control, organization for logistics, service and support, and services of major components of typical naval force and naval personnel, shipboard organization with emphasis on management and leadership functions are important elements to be covered.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Critically analyse and evaluate various elements of a various elements of a naval force	KU1, CI1, KT2
Critically analyse and conclude decision making for typical situational scenarios	KU1, KU2, KU3, CI2, ER1, ER3
Investigate, analyse and evaluate the role of a typical Sea Power in maintaining peace in the region	KU1, CI2, CI4, KT2, KT3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: Semester 2

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr S Balakrishnan **OTHER MODULE STAFF: None**
(Retd)

Summary of Module Content:

Principles of War; Command and Control; Maritime Operating Environment
Sea Power; Naval Campaigns & Case studies

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	40	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALO 2	100%
Coursework	Take home assignment on ALOs 1 and 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Written exam	60 minutes examination on ALO 2	100%
Coursework	Take home assignment on ALOs 1 and 3	100%

To be completed when presented for Minor Change approval and/or annually updated

Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX
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UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.

MODULE CODE: MLA625 MODULE TITLE: Weapons & Sensors
CREDITS: 10 FHEQ LEVEL: 6 HECOS CODE: 100194
PRE-REQUISITES: None CO-REQUISITES: None COMPENSATABLE: Y

SHORT MODULE DESCRIPTOR:

This module provides an introduction to concepts and properties of electronic, physical, electromagnetic and mechanical systems and the underlying principles for operation of shipboard and aircraft weapons systems. The module emphasises types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory and ballistics principles, and basic theory of radar and sonar.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]					
T1 (Test)	50%	C1 (Coursework)	50%	P1 (Practical)	00%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with an introduction to concepts and properties of electronic, physical, electromagnetic and mechanical systems and the underlying principles for operation of shipboard and aircraft weapons systems.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
Compare and evaluate various types of weapons carried on different naval vessels	KU1, CI2, PS1
Compare and evaluate sensors used in various systems	KU1, CI2, KT1
Analyse and evaluate the design and operation of Gunnery & ASW weapons	KU1, CI2, CI4, ER3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: July to December

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Cdr V Shekhar

OTHER MODULE STAFF: None

Summary of Module Content:

- Gunnery weapons and sensors
- ASW weapons and sensors

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	40	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	40	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	100	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class tests on ALOs 1 and 2	100%
Coursework	Take home assignment on ALO 3	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Test	In class test on ALOs 1 and 2	100%
Coursework	Take home assignment on ALO 3	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

UNIVERSITY OF PLYMOUTH MODULE RECORD

SECTION A: DEFINITIVE MODULE RECORD. *Proposed changes must be submitted via Faculty/AP Quality Procedures for approval and issue of new module code.*

MODULE CODE: MLA622 **MODULE TITLE:** Final year project
CREDITS: 40 **FHEQ LEVEL:** 6 **HECOS CODE:** 100194
PRE-REQUISITES: None **CO-REQUISITES:** None **COMPENSATABLE:** N

SHORT MODULE DESCRIPTOR:

The project module is different from other modules in that although students are supervised, the onus is on the student to define the problem boundaries, to investigate possible solutions, and to present the results in writing and verbally. Apart from an initial briefing session there are no formal lectures to attend. Contact time consists of regular individual/small group meetings to discuss progress.

ELEMENTS OF ASSESSMENT [Use HESA KIS definitions]			
C1 (Proposal and report)	85%	P1 (Oral Presentation)	15%

SUBJECT ASSESSMENT PANEL to which module should be linked: MLA

Professional body minimum pass mark requirement: N/A

MODULE AIMS:

This module aims to provide the students with the opportunity to define a suitable topic and work independently to investigate and report on the topic.

ASSESSED LEARNING OUTCOMES:

At the end of the module the learner will be expected to be able to:

Assessed Module Learning Outcomes	Award/ Programme Learning Outcomes contributed to
demonstrate initiative and creativity in applying skills and knowledge and experience gained from previous work in an individual practical, problem solving project, and	KU1, KU2, KU3, KU4, CI1, CI3, CI4, KT1, ER2, ER3
further develop generic, project related skills including those of project management, written and verbal communication, and system presentation and demonstration	KU1, CI1, CI4, KT2, KT3, ER3
manage a project and deliver a solution to a potential customer/supervisor as realistically as possible in an academic context.	KU1, CI1, CI2, CI3, CI4, ER3

DATE OF APPROVAL: 15/06/2021	FACULTY/OFFICE: Academic Partnership
DATE OF IMPLEMENTATION: 02/2022	SCHOOL/PARTNER: MLA
DATE(S) OF APPROVED CHANGE: N/A	SEMESTER: All year

Notes:

SECTION B: DETAILS OF TEACHING, LEARNING AND ASSESSMENT

Items in this section must be considered annually and amended as appropriate, in conjunction with the Module Review Process. Some parts of this page may be used in the KIS return and published on the extranet as a guide for prospective students. Further details for current students should be provided in module guidance notes.

ACADEMIC YEAR: 2022

NATIONAL COST CENTRE: 124

MODULE LEADER: Capt A Jain (Retd)

OTHER MODULE STAFF: Staff will be appointed to supervise the project

Summary of Module Content:

- Choice of Topic, Literature Review; Project Proposal, Ethical issue and clearance
- Dissertation / Project report

SUMMARY OF TEACHING AND LEARNING [Use HESA KIS definitions]		
Scheduled Activities	Hours	Comments/Additional Information (briefly explain activities, including formative assessment opportunities)
Lecture	20	Lecture, small group discussions, chance for interactive class participation
Tutorial	20	Discussions with peers and tutor. Formative tasks will be included here, with opportunity for feedback at next tutorial.
Independent study	360	Reading around the subject based upon direction from tutor and personal research, and preparation for assessment
Total	400	(NB: 1 credit = 10 hours of learning; 10 credits = 100 hours, etc.)

SUMMATIVE ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Project proposal	100%
Coursework	Dissertation / Project Report	100%
Practical	Oral Presentation	100%

REFERRAL ASSESSMENT

Element Category	Component Name	Component Weighting
Coursework	Project proposal	100%
Coursework	Dissertation / Project report	100%
Practical	Oral Presentation	100%

To be completed when presented for Minor Change approval and/or annually updated	
Updated by: Date: XX/XX/XXXX	Approved by: Date: XX/XX/XXXX

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