

## MCAST PROGRAMMES - PUBLIC INFORMATION TEMPLATE (FULL TIME)

Institute	Institute of Engineering and Transport
Department	Centre for Maritime Studies Department

Programme Title	Bachelor of Science (Honours) in Marine Engineering						
Course Code To be filled in by Admissions Dept.	MS6-W01-23		If the programme includes a WBL element, How is it accredited?		Placemer	Placement / Internship	
MQF/ EQF Level	Level 6	<b>Type</b> (refer to Appendix 1 for Parameters)	Qualif	ication	Awarding Body Awarding Code Science Technolc		MCAST – Malta College of Arts, Science and Technology
Accreditation Stat	us	Accredited via Self-Accreditin	MCAS <sup>-</sup> ng Statu	Γ's Self Acc s as per 1st	reditatio schedu	n Process ( lle of Legal I	MCAST holds Notice 296/2012)
Mode of Delivery	Face to Face	Duratio emic Yea Semester	<b>ON</b> (Acad rs or rs)	3 Years	N A	lode of ttendance	Full-time
Total Number of Credits	180 credits	Total Learnin (25 Total Learning I	g Hours Hours for e	S ach ECTS)	4500 ho	ours	
Target Audience	Ages 16 - 65	Target Group (the type of learners t educational institutio, anticipates joining thi programme)	Target Group       (the type of learners that the educational institution anticipates joining this programme)				
Programme Fees	<ul> <li>There are no fees applicable to Maltese and other EU Nationals (as will be evidenced by their Identity Document)</li> <li>Fees apply for other International Applicants for fee information and any related updates it is best to communicate with MG2i International through applyinternational@mcast.edu.mt</li> <li>One may consider checking about possible eligibility or otherwise for any exemption from fees by contacting the relevant section within MEYR (Floriana) – or visit the</li> </ul>						
Date of Next Student Intake	For further inf	ormation regard	ding upo	oming stud	ent inta	ke and appli	cations time
Language of Instruction	The official language of instruction at MCAST is English. All notes and textbooks are in English (except for language courses, which will be in the respective language being instructed). International candidates will be requested to meet English language certification requirements for access to the course.						
Application Method	Applications to full-time courses are received online via the College Management Information System. Applicants can log-in using Maltese Electronic ID (eID) in order to access the MCAST Admissions Portal directly and create one's own student account with the identity being verified electronically via this secure service. Non-EID applicants need to request account creation though an online form after that they confirm that their local Identification Document does not come with an EID entitlement. Once the identity is verified and the account is created on behalf of the						



	applicant, one may proceed with the online application according to the same instructions applicable to all other applicants.
	For more information about how to apply online for a course at MCAST, please visit: <u>https://mcast.edu.mt/how-to-apply-online-2/</u>
Information for	Non-EU candidates require a study visa in order to travel to Malta and join the course applied for (on a Full Time delivery mode). For further information re study-visa please access <a href="https://www.identitymalta.com/unit/central-visa-unit/">https://www.identitymalta.com/unit/central-visa-unit/</a> .
Non-EU Citizens	Further information International / TCN applicants should take note of before requesting to being considered for a programme of studies at MCAST, can be obtained through the respective FAQ found on <a href="https://mcast.edu.mt/important-information/">https://mcast.edu.mt/important-information/</a>
IMPORTANT note to Non-EU Nationals / TCNs	In instances where a TCN is applying for an MCAST programme of studies which includes Apprenticeship / Placement / Internship, it is the applicant's responsibility to check with the relevant Maltese Authority whether one would be eligible to have the necessary permits to be able to carry out the accredited Apprenticeship / Placement / Internship, success from which is expected in order to be able to successfully complete the selected programme of studies. Further information can also be obtained through the respective FAQ found on:
	MCAST has four campuses as follows:
Address where the Programme will be Delivered	<ul> <li>MCAST Main Campus Triq Kordin, Paola, Malta</li> <li>All courses except for courses delivered by the Institute for the Creative Arts, the Centre of Agriculture, Aquatics and Animal Sciences and the Gozo Campus are offered at the Main Campus address (above).</li> <li>Courses delivered by the Institute for the Creative Arts, the Centre of Agriculture, Aquatics and Animal Sciences, or the Gozo Campus, are offered in one of the following addresses as applicable:</li> <li>Institute for the Creative Arts Mosta Campus Misraħ Ghonoq Tarġa Gap, Mosta</li> <li>Institute of Applied Sciences Centre of Agriculture, Aquatics and Animal Sciences, Luqa Road, Qormi</li> <li>Gozo Campus J.F. De Chambray Street MCAST, Ghajnsielem Gozo</li> <li>In the case of courses delivered via Online Learning, students will be following the programme from their preferred location/address.</li> <li>Programmes delivered via Blended Learning, and which therefore contain both an</li> </ul>
	Programmes delivered via Blended Learning, and which therefore contain both an online and a face to face component shall be delivered as follows:



	<ul> <li>Face to Face components – as per above address instructions</li> <li>Online components – from the student's preferred address.</li> </ul>
Course Description (Refer to Programme Specification)	This degree programme deals with construction, operation and maintenance of engines and machinery in ships and marine installations. The learner will gain an understanding of developed and emerging technologies whilst applying theoretical and practical methods in the analysis and solution of marine engineering related problems. At this level of study, one will be expected to develop the qualities needed for employment in situations requiring the exercise of personal responsibility, technical leadership and commercial management in complex and unpredictable circumstances as expected in the Maritime industry.
Deskrizzjoni tal- Kors (Refer to Programme Specification)	Dan il-programm li jwassal għal baċellerat jittratta, il-kostruzzjoni, l-operat u l- manutenzjoni tal-magni u l-makkinarju f'bastimenti u installazzjonijiet tal-baħar. L- istudent jikseb fehim tat-teknoloģiji żviluppati u emerġenti, filwaqt li japplika metodi teoretiċi u prattiċi fl-analiżi u s-soluzzjoni ta' problemi relatati mal-inġinerija tal-baħar. F'dan il-livell ta' studju, wieħed ikun mistenni li jiżviluppa l-kwalitajiet meħtieġa għal impjieg f'sitwazzjonijiet li jirrikjedu l-eżerċizzju ta' responsabbiltà personali, it- tmexxija teknika u l-ġestjoni kummerċjali f'ċirkostanzi kumplessi u imprevedibbli kif wieħed jistenna fl-industrija Marittima.
Career Opportunities:	Marine Technologist, Marine Surveyor
Entry Requirements (Refer to Prospectus / Course Page on MCAST website)	Internal Progression Route Any MCAST MQF Level 4 Advanced Diploma offered by the Institute of Engineering and Transport or MCAST Undergraduate Diploma in Foundations of Engineering OR 2 A-Level passes and 2 I-Level passes <u>Compulsory</u> A-Levels: Physics AND Mathematics (Pure or Applied)
Other Notes related to this Programme, and which are to be taken note of	_
Programme Learning Outcomes (Refer to Programme Specification)	<ul> <li>At the end of the programme the learner will be able to:</li> <li>1. Design, operate and maintain marine engineering systems.</li> <li>2. Decide upon entrepreneurial and managerial activities related to the marine engineering field.</li> <li>3. Propose solutions based on mathematical and scientific analysis of situations and issues at hand.</li> <li>4. Conduct research and apply accumulated knowledge to a marine engineering situation.</li> </ul>
Teaching, Learning and Assessment Procedures	The programmes offered are vocational in nature and entail both theoretical lectures delivered in classes as well as practical elements that are delivered in laboratories, workshops, salons, simulators as the module requirements dictate.
	Each module or unit entails a number of in person and/or online contact learning hours that are delivered by the lecturer or tutor directly (See also section 'Total Learning Hours).
	Access to all resources is provided to all registered students. These include study resources in paper or electronic format through the Library and Resource Centre as

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	well as tools, software, equipment and machinery that are provided by the respective institutes depending on the requirements of the course or module.
	Students may however be required to provide consumable material for use during practical sessions and projects unless these are explicitly provided by the College.
	All Units of study are assessed throughout the academic year through continuous assessment using a variety of assessment tools. Coursework tasks are exclusively based on the Learning Outcomes and Grading Criteria as prescribed in the course specification. The Learning Outcomes and Grading Criteria are communicated to the Student via the coursework documentation.
	The method of assessment shall reflect the Level, credit points (ECTS) and the schedule of time-tabled/non-timetabled hours of learning of each study unit. A variety of assessment instruments, not solely Time Constrained Assignments/Exams, are used to gather and interpret evidence of Student competence toward pre-established grading criteria that are aligned to the learning outcomes of each unit of the programme of study.
	Grading criteria are assessed through a number of tasks, each task being assigned a number of marks. The number of grading criteria is included in the respective Programme Specification. The distribution of marks and assessment mode depends on the nature and objectives of the unit in question.
	Coursework shall normally be completed during the semester in which the Unit is delivered.
	Time-constrained assignments may be held between 8 am and 8 pm during the delivery period of a Unit, or at the end of the semester in which the Unit is completed. The dates are notified and published on the Institute notice boards or through other means of communication.
	Certain circumstances (such as but not limited to the COVID-19 pandemic) may lead Institutes and Centres to hold teaching and assessment remotely (online) as per MCAST QA Policy and Standard for Online Teaching, Learning and Assessment (Doc 020) available via link https://www.mcast.edu.mt/college-documents/
	The Programme Regulations pertaining to this Programme's MQF/EQF level available at: link https://www.mcast.edu.mt/college-documents/, apply.
	All MCAST programmes adopt a Learner-centred approach through the focus on Learning Outcomes. The assessment of MCAST programmes is criterion-referenced and thus assessors are required to assess learners' evidence against a pre- determined set of Learning Outcomes and Assessment Criteria.
Grading System	For a student to be deemed to have successfully passed a unit, a minimum of 50% (grade D) must be achieved.
	All full time units are individually graded as follows: A* (90-100) A (80-89) B (70-79) C (60-69) D (50-59) Unsatisfactory work is graded as 'U'.



	Work-based I	earning units (where applicable) are graded on a Pass/Fail basis only.	
	Some units w Pass/Fail bas	which follow industry standards and regulations may also be graded on a sis as per programme regulations referred below.	
	Detailed infor Regulations p <u>https://www.n</u>	mation regarding the grading system may be found in the Programme bertaining to this programme's MQF/EQF Level available at: <a href="mailto:ncast.edu.mt/college-documents/">ncast.edu.mt/college-documents/</a> (Refer to DOC 003, 004 and 005)	
Exit Point (where and as applicable)	Where a stu from this Pu might wish this prograu <u>https://www.n</u> <i>Procedure f</i> <i>Points.</i>	udent will not make it to the Final Certification achievable rogramme of Studies (as per Programme Regulations), one to look into Exit Point possibilities as may be applicable to mme for studies. Further information, is available at <u>ncast.edu.mt/college-documents/,</u> kindly refer to DOC 077 For the processing of Claims for Certificates at Interim Exit	
Contact details for Further Learning Opportunities	The MCAST Career Guidance Team, offers the service of qualified and experienced Career Advisers who will be very willing to discuss with potential applicants the course which best achieves one's career ambitions, as well as exploring one's education route, or similar. <b>MCAST Career Guidance</b> Tel: 2398 7135/6 Email: career guidance@mcast edu mt		
Regulatory Body/ Competent Authority Contact Details (where applicable - in the case of a programme leading to Regulated Profession)		Commercial Vessel Engineer : Commercial Vessel Directorate of Transport Malta	

Programme	Unit Code	Unit Title	ECTS	Year	Semester
Structure	ETPMS-506- 1501	Applications of Pneumatics & Hydraulics	6	1	1 & 2
	ETMTS-506- 1506	Engineering Materials	6	1	2
	ETENG-506- 1514	Engineering Principles	6	1	1 & 2
	ETMEC-506- 1527	Fluid Mechanics	6	1	2
	ETMEC-506- 1529	Heat Transfer and Combustion	6	1	1
	ETMRN-506- 1502	Marine Diesel Propulsion & Power Systems (L5)	6	1	1
	ETMRN-506- 1503	Marine Electrical Systems 1	6	1	2
	ETMTH-606- 1809	Mathematics for Engineers 1	6	1	1 & 2
	ETMRN-506- 1516	Engineering Thermodynamics (Marine)	6	1	1
	CDKSK-503- 2330	Critical Thinking 1	3	1	2



CDKSK-503-	English for Academic	3	1	1
2328	Purposes			
ETMTH-606-	Mathematics for Engineers 2	6	2	1&2
1811				
ETENG-506-	Instrumentation and Control	6	2	1
1515	Systems			
ETMRN-506-	Marine Auxiliary Plant(L5)	6	2	2
1504				
ETMRN-506-	Naval Architecture	6	2	1
1506				
ETPRJ-512-1525	Project Design and	12	2	1&2
	Implementation and			
	Evaluation		_	
ETMRN-506-	Ship Propulsion and	6	2	2
1507	Manoeuvrability		_	
CDKSK-503-	Critical Thinking 2	3	2	2
2331			_	
CDKSK-503-	English for Dissertation	3	2	2
2329	Writing			
CDKSK-602-	Community Social	2	2	1
2335	Responsibility			
CDKSK-604-	Entrepreneursnip	4	2	1
2336			4.0	1.0.0
E I WIKIN-506-	workshop Practice	6	1-2	1&2
	Maintananaa 8 Fault	6	2	2
E I WIKIN-000-		0	3	2
	Marina Auviliany Plant (L6)	6	2	1
E I WIKIN-000-	Manne Auxiliary Plant (L6)	0	3	I
	Marina Electrical Systems 2	6	2	1
2101	Manne Electrical Systems 2	0	3	1
	Marino Engineering Studies	6	3	2
1511		0	5	2
FTMRN-606-	Marine Engineering	6	3	1
1512	Thermodynamics (L6)	0	0	1
ETMTS-606-	Materials in Marine	6	3	2
1512	Engineering	Ū	U	2
FTMRN-606-	Naval architecture with	6	3	1
1514	Marine Informatics 1	0	Ū	
ETMRN-606-	Naval Architecture with	6	3	2
1515	Marine Informatics 2	_		
ETRSH-600-	Research Methods	0	3	1 & 2
1502				
ETDIS-612-1501	Dissertation	12	3	1&2

Allocation of	The total learning hours required for each unit or module are determined as follows:				
Total	Credits (ECTS)	Indicative	Self-Learning and	Total Student	
Learning		contact hours <sup>1</sup>	Assessment Hours <sup>3</sup>	workload (hrs) <sup>2</sup>	
Hours (per	1	5 – 10 hrs	20 - 15 hrs*	25 hrs	
Unit)	2	10 – 20 hrs	40 - 30 hrs*	50 hrs	
	3	15 – 30 hrs	60 - 45 hrs*	75 hrs	
	4	20 – 40 hrs	80 - 60 hrs*	100 hrs	
	6	30 – 60 hrs	120 - 90 hrs*	150 Hrs	
	9	45 – 90 hrs	180 - 135 hrs*	225 hrs	
	12	60 – 120 hrs	240 - 180 hrs*	300 hrs	



Note: The 'Self-Learning and Assessment Hours<sup>3</sup>' amount to the difference between the 'Indicative Contact Hours'<sup>1</sup> and the 'Total Student Workload'<sup>2</sup>



## MINIMUM CREDITS FOR QUALIFICATIONS AT DIFFERENT LEVELS

MQF Level	Minimum ECTS Required for a Qualification*
8	
7	30
6	180
5	30
4	30
3	60
2	60
1	40

\* Programmes assigned fewer ECTS than indicated will be classified as Awards.

Reference: Fig.1: p48, Malta Further and Higher Education Authority (MFHEA) (October 2024). Referencing Report, 5<sup>th</sup> Revised Edition.



## **APPENDIX 2**

MQF Level	Examples of qualification types at a specific MQF level (The list in this column is not exhaustive)	Number of ECTS *
	Doctoral Programmes:	
8	PhD	N/A
	Professional Doctorate	180
_	Master's Degree	90
/	Postgraduate Diploma	60
	Postgraduate Certificate	30
	Bachelor's Degree	180
6	Bachelor's Honours	240
	Undergraduate Higher Diploma	90
5	Undergraduate Diploma	60
	Undergraduate Certificate	30
	VET Level 5	60
	Advanced Diploma	120
4	Pre-Tertiary Certificate	30 - 60
	MATSEC Matriculation Certificate (Advanced and Intermediate)	N/A
	VET Level 4	120
	Certificate	60
3	MATSEC Secondary Education Certificate	N/A
	VET Level 3	60
	Foundation Certificate	60
2	MATSEC Secondary Education Certificate	N/A
	VET Level 2	60
	Introductory Certificate	40
1	VET Level 1	40

## EXAMPLES OF QUALIFICATION TYPES AT A SPECIFIC MQF LEVEL

\* Programmes assigned fewer ECTS than indicated will be classified as Awards.

Reference: Fig.2: p48, Malta Further and Higher Education Authority (MFHEA) (October 2024). Referencing Report, 5<sup>th</sup> Revised Edition.