

MCAST PROGRAMMES - PUBLIC INFORMATION TEMPLATE (FULL TIME)

	Institute	Institute of Information and Communication Technology
ſ	Department	-

Programme Title	Bachelor of S	rs) in Software Development					
Course Code To be filled in by Admissions Dept.	IT6-A02-23		If the programme includes a WBL element, How is it accredited?		Apprenticeship		
MQF/ EQF Level	Level 6	Type (refer to Appendix 1 for Parameters)	Qualif	ication	on Awarding Body Awarding Body Awarding Body MCAST – Malta College of Arts, Science and Technology		
Accreditation Stat	tus		Accredited via MCAST's Self Accreditation Process (MCAST he Self-Accrediting Status as per 1st schedule of Legal Notice 296				
Mode of Delivery Face to Face		Duration emic Year Semester	rs or	3 years		ode of tendance	Full-Time
Total Number of Credits	180 credits	Total Learnin (25 Total Learning I			4500 ho	urs	
career shift or in within Software I Target Group Career shift or in within Software I Students that ha		Specialists if or in upgravare Develor thave corrected by the corrected by	ests interested in a signading their skillset evelopment. I completed an at MCAST ICT in Development / the Development. I could from the essession of the entific /				
Programme Fees	There are no fees applicable to Maltese and other EU Nationals (as will be evidenced by their Identity Document) 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 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 servizz.gov.mt website here						
Date of Next Student Intake	For further information regarding upcoming student intake and applications time windows for same kindly click here			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: https://mcast.edu.mt/how-to-apply-online-2/ 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 studyvisa please access https://www.identitymalta.com/unit/central-visa-unit/. Information for **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 https://mcast.edu.mt/importantinformation/ 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 **IMPORTANT** 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 note to Non-EU complete the selected programme of studies. Further information can also be Nationals / TCNs obtained through the respective FAQ found on: https://mcast.edu.mt/important-information/ MCAST has four campuses as follows: **MCAST Main Campus** Triq Kordin, Paola, Malta 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). 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 Address where following addresses as applicable: the Programme will be Delivered **Institute for the Creative Arts** Mosta Campus Misraħ Għonoq Targa Gap, Mosta **Institute of Applied Sciences** Centre of Agriculture, Aquatics and Animal Sciences, Luga Road, Qormi **Gozo Campus** J.F. De Chambray Street MCAST, Ghainsielem Gozo



Course

Kors

Career

(Refer to Programme Specification)

Description

(Refer to Programme Specification)

In the case of courses delivered via Online Learning, students will be following the programme from their preferred location/address. Programmes delivered via Blended Learning, and which therefore contain both an online and a face to face component shall be delivered as follows: Face to Face components – as per above address instructions Online components – from the student's preferred address. The degree in Software Development is intended to prepare learners to work in the industry of application development and engineering and explores the skills required for designing IT enterprise solutions, building robust backend systems, and solving complex problems using the latest paradigms and modern technologies. The programme covers aspects related to software engineering, frontend and backend software technologies, data organisation, persistence and data analysis, software development of portable devices and software quality aspects such as security and testing. Modern trends such as Cloud, Devops, Blockchain, Machine Learning and Computer Vision are also explored. The degree includes work-placements that will allow students to gain experience within the industry and work in a professional environment. At the end of the degree, the students culminate their studies with a research dissertation in an area of their interest. The course is intended for individuals who are keen in solving problems through technology and would like to pursue an exciting career in one of the fundamental pillars of the economy. II-kors fis-Software Development huwa maħsub biex jipprepara lill-istudenti biex iaħdmu fl-industrija tal-iżvilupp tal-applikazzionijiet u l-indinerija u jesplora l-ħiliet meħtiega għat tfassil ta 'soluzzioniiiet tal-intraprizi tal-IT. il-bini ta' sistemi backend robusti, u s-soluzzjoni ta' problemi kumplessi bl-użu tal-aħħar teknologiji moderni. Ilprogramm ikopri aspetti relatati mal-inginerija tas-software, teknologiji tas-software frontend u backend, organizzazzioni tad-data, persistenza u analiżi tad-data, I-Deskrizzjoni talżvilupp ta' software ta' apparati portabbli u aspetti tal-kwalità tas-software bħassigurtà u l-ittestjar. Xejriet moderni bħal Cloud, Devops, Blockchain, Machine Learning u Computer Vision huma esplorati wkoll. II-programm jinkludi workplacements li se iippermettu lill-istudenti iiksbu esperienza fl-industrija u jaħdmu f'ambjent professjonali. Fi tmiem tal-kors, l-istudenti jikkonkludu l-istudji tagħhom b'progett ta' ricerka f'qasam ta' interess taghhom. Il-kors huwa mahsub ghal individwi li huma ħerqana li jsolvu problemi permezz tat-teknoloģija u li jixtiegu jsegwu karriera eċċitanti f'wieħed mill-pilastri fundamentali tal-ekonomija. Web/Back-End/Full-Stack Developer, Software Tester. Mobile Applications Developer Internal Progression Route.... MCAST Advanced Diploma in IT (iGaming or Software Development or Multimedia Software Development) MCAST Advanced Diploma in Electronics (Computer Engineering)

Entry Requirements (Refer to Prospectus /

Opportunities:

Course Page on MCAST website)

OR

2 A-Level passes and 2 I-Level passes Compulsory A-Level: Computing AND

Compulsory A-Level or I-Level: Mathematics

(Pure or Applied) OR Physics



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Other Notes related to this Programme, and which are to be taken note of	Information Technology at A or I Level (or similar) is not a substitute for the Compulsory Subject/s as shown in the Entry Requirements for this degree programme.
Programme Learning Outcomes (Refer to Programme Specification)	At the end of the programme the learner will be able to: 1. Design, implement and document the underlying data infrastructure to support software applications; 2. Design, implement and document the back-end of enterprise applications for a given requirement; 3. Revise a software design/implementation to optimise its use of resources; 4. Test and secure the software application and its content to conform to industry standards.
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 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 predetermined set of Learning Outcomes and Assessment Criteria. 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:
Grading System	A* (90-100) A (80-89) B (70-79) C (60-69) D (50-59) Unsatisfactory work is graded as 'U'.
	Work-based learning units (where applicable) are graded on a Pass/Fail basis only. Some units which follow industry standards and regulations may also be graded on a Pass/Fail basis as per programme regulations referred below.
	Detailed information regarding the grading system may be found in the Programme Regulations pertaining to this programme's MQF/EQF Level available at: https://www.mcast.edu.mt/college-documents/ (Refer to DOC 003, 004 and 005)
Exit Point (where and as applicable)	Where a student will not make it to the Final Certification achievable from this Programme of Studies (as per Programme Regulations), one might wish to look into Exit Point possibilities as may be applicable to this programme for studies. Further information, is available at https://www.mcast.edu.mt/college-documents/ , kindly refer to DOC 077 Procedure for the processing of Claims for Certificates at Interim Exit Points.
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. MCAST Career Guidance Tel: 2398 7135/6 Email: career.guidance@mcast.edu.mt
Regulatory Body/ Authority Contact (where applicable - in the case leading to Regulated Profess	Competent Details Se of a programme Not Applicable



Programme	Unit Code	Unit Title	ECTS	Year	Semester
Structure	ITMTH-503-2301	Discrete Mathematics I	3	1	1
	ITSFT-506-2006	Object Oriented Programming	6	1	1
	ITDBS-506-1603	Database Programming I	6	1	1
	ITSFT-506-1606	Software Engineering	6	1	1
	CDKSK-503- 2328	English for Academic Purposes	3	1	1
	ITSFT-506-1608	Data Structures and Algorithms	6	1	2
	ITSFT-506-2007	Software Test Automation	6	1	2
	ITSFT-506-1609	Low Level Programming 1	6	1	2
	ITDBS-506-2003	Database Programming II	6	1	2
	CDWBL-506- 1901	Work Based Learning I	6	1	2
	ITSFT-506-2301	Mobile Applications Development	6	1	2
	CDWBL-506- 1902	Work Based Learning II	6	2	1,2
	ITSFT-506-2003	Client Side Scripting I	6	2	1
	ITSFT-506-2302	Applied Computational Intelligence	6	2	1
	ITSFT-506-1612	Server Side Scripting	6	2	1
	ITMSD-506-2308	Cross Platform Development	6	2	1
	ITSFT-506-2011	Enterprise Programming	6	2	1
	ITMTH-503-2302	Discrete Mathematics II	3	2	1
	ITSFT-506-2012	Securing Applications	6	2	2
	ITRSH-506-2101	Research Design I	6	2	2
	CDKSK-604- 2336	Entrepreneurship	4	2	2
	CDKSK-602- 2335	Community Social Responsibility	2	2	2
	CDKSK-503- 2329	English for Dissertation Writing	3	2	2
	ITIMG-606-1601	Image Processing and Computer Vision	6	3	1
	ITSFT-606-1619	Data Structures And Algorithms II	6	3	1
	ITSTA-606-1601	Statistics for Computer Science	6	3	1
	ITSFT-606-2303	Systems Programming	6	3	1
	ITSFT-606-2101	Distributed Programming	6	3	2
	ITSFT-606-2304	Business Intelligence & Reporting	6	3	2
	ITSFT-606-1620	Programming for the Cloud	6	3	2
	ITRSH-606-2102	Research Design II	6	3	2
	ITDIS-612-1601	Dissertation	12	3	2

Allocation of	Allocation of The total learning hours required for each unit or module are determined as follow					
Total	Credits (ECTS) Indicative Self-Learning and Total Student					
Learning contact		contact hours ¹	Assessment Hours ³	workload (hrs) ²		
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' amount to the difference between the 'Indicative Contact Hours' and the 'Total Student Workload'					



APPENDIX 1

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, 5th Revised Edition.



APPENDIX 2

EXAMPLES OF QUALIFICATION TYPES AT A SPECIFIC MQF LEVEL

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
7	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

^{*} 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, 5th Revised Edition.