

MCAST PROGRAMMES - PUBLIC INFORMATION TEMPLATE (FULL TIME)

Institute	Institute of Information and Communication Technology
Department	-

Programme Title	Bachelor of Science (Honours) in Cybersecurity						
Course Code To be filled in by Admissions Dept.	IT6-A07-23	If the programme includes a WBL element, Appre How is it accredited?			, Apprentic	nticeship	
MQF/ EQF Level	Level 6	Type (refer to Appendix 1 for Parameters)Qual		ication	Awarding Body		MCAST – Malta College of Arts, Science and Technology
Accreditation Stat	tus	Accredited via Self-Accreditin	MCAST og Status	is Self Acc as per 1s	creditati t sched	on Process (l ule of Legal N	MCAST holds Notice 296/2012)
Mode of Delivery	Face to Face	Duratio emic Yea Semester	DN (Acad rs or rs)	3 Years		Mode of Attendance	Full-Time
Total Number of Credits	180 credits	Total Learnin (25 Total Learning I	g Hours Hours for e	s ach ECTS)	4500 h	ours	
Target Audience	Ages 16 - 65	Target Group (the type of learners that the educational institution anticipates joining this programme)Qualified Professional Developers interest a career shift or in upgrading their skillse within the Cybersecurity Sector. Students have completed an Advanced Diploma at MCAST ICT in iGaming / Software Development / Multimedia Software Development. Students or individuals fro general public in possession of Mathema Scientific / Programming qualifications at Advanced Level			pers interested in their skillset or. Students that Diploma at ware tware ividuals from the of Mathematical / fications at		
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 <u>applyinternational@mcast.edu.mt</u> 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						
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 Citizens	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 https://www.identitymalta.com/unit/central-visa-unit/ . 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/important-information/
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:
Address where the Programme will be Delivered	 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 following addresses as applicable: Institute for the Creative Arts Mosta Campus Misraħ Għonoq Tarġa Gap, Mosta Institute of Applied Sciences Centre of Agriculture, Aquatics and Animal Sciences, Luqa Road, Qormi Gozo Campus J.F. De Chambray Street MCAST, Għajnsielem Gozo



	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.
Course Description (Refer to Programme Specification)	The Cybersecurity degree is a 3-year programme that provides students with a comprehensive understanding of concepts, techniques, and tools required to secure software applications, computer systems and networks. Students will increase their proficiency in the usage of open source operating systems, network security, database programming, digital forensics, and offensive security. They will also develop practical skills in mitigating cyber threats. The programme includes work-based component, whereby one's own skills are put to good use by working alongside experienced cybersecurity professionals. Additionally, the programme has a research component, where the student would undertake a dissertation. This applied research will draw on the skills and knowledge gained throughout the course to explore a specific area of cybersecurity in depth. Graduates of this programme will gain sufficient hands-on experience to thrive in the dynamic field of cybersecurity sector, including roles such as cybersecurity specialists, information security analysts, network security engineers, penetration testers, and digital forensic experts alongside others.
Deskrizzjoni tal- Kors (Refer to Programme Specification)	II-programm f'livell ta' baċellerat f'Cybersecurity huwa kors ta' 3 snin li jagħti lill- istudenti taħriġ komprensiv ta' kunċetti, teknika u għodod meħtieġa għas-sigurtà tas- software, sistemi tal-kompjuter u networks. L-istudenti se jżidu I-għarfien tagħhom fl- użu ta' sistemi open source, is-sigurtà tan-network, I-ipprogrammar tad-databases, il- forensika diġitali, u s-sigurtà offensiva. Se jiżviluppaw ukoll ħiliet prattiċi kontra t- theddid ċibernetiku. II-programm jinkludi tagħlim ibbażat fuq ix-xogħol, u b'hekk I-istudenti jużaw il-ħiliet tagħhom u jkomplu jikbru billi jaħdmu ma' professjonisti b'esperjenza fil-qasam tas- sigurtà fid-dinja diġitali. Barra minn hekk, il-programm għandu komponent ta' riċerka, fejn I-istudent jaħdem fuq proġett ta' riċerka. F'din ir-riċerka applikata jintużaw il-ħiliet u I-għarfien miksuba tul il-kors u I-istudent jesplora fil-fond qasam fid- speċifiku fil- qasam tas-sigurtà ċibernetika. II-gradwati ta' dan il-programm se jiksbu biżżejjed esperjenza prattika biex jirnexxu fil-qasam dinamiku tas-sigurtà ċibernetika. II- kompetenza miksuba se tippermettilhom isegwu karrieri fis-settur sigurtà fid-dinja diġitali, inklużi rwoli speċjalisti tas-sigurtà ċibernetika, analisti tas-sigurtà tal- informazzjoni, inġiniera tas- sigurtà tan-network, testers, u esperti forensiċi diġitali u iktar.
Career Opportunities:	Security Engineer *, Security Consultant, Penetration Tester,Network Security Analyst, Cybersecurity Analyst, Security Researcher, Threat Analyst, Malware Analyst, Security Architect, *The term Engineer shall not carry or imply the meaning attributed to the term "Engineer" in Article 2 of the Engineering Profession Act (Chapter 321 of the Laws of Malta)
Entry Requirements	Internal Progression Route MCAST MQF Level 4 Advanced Diploma in IT



(Refer to Prospectus / Course Page on MCAST	OR
website)	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
Other Notes	Applicants holding an MCAST MQF Level 4 Advanced Diploma in IT, with Multimedia Software Development and iGaming specialist streams, are not really
related to this	encouraged to take up this Degree Programme.
Programme, and	Information Technology at A or I Level (or similar) is not a substitute for the
taken note of	Compulsory Subject/s as shown in the Entry Requirements for this degree
	programme. At the end of the programme the learner will be able to:
	1 Identify fundamental concepts and principles of computer platforms, networking
Programme	and security.
Learning	2. Apply critical thinking and problem-solving skills to design, implement and secure
(Refer to Programme	computer systems, databases and networks.
Specification)	in a context of security.
	4. Communicate ethical and professional behaviour in the domain of cybersecurity.
Teaching,	The programmes offered are vocational in nature and entail both theoretical lectures
Learning and	delivered in classes as well as practical elements that are delivered in laboratories, workshops, salops, simulators as the module requirements dictate
Procedures	
	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
	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
	Student via the coursework documentation.
	The method of assessment shall reflect the Level, credit points (ECTS) and the
	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.
	objectives of the unit in question.
	Coursework shall normally be completed during the semester in which the Unit is



	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 <u>https://www.mcast.edu.mt/college-documents/</u>
	The Programme Regulations pertaining to this Programme's MQF/EQF level available at: link <u>https://www.mcast.edu.mt/college-documents/</u> , 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.
	For a student to be deemed to have successfully passed a unit, a minimum of 50% (grade D) must be achieved.
Grading System	All full time units are individually graded as follows: A* (90-100) A (80-89) B (70-79) C (60-69)
	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 <u>https://www.mcast.edu.mt/college-documents/,</u> kindly refer to DOC 077 Procedure for the processing of Claims for Certificates at Interim Exit Points.
	The MCAST Career Guidance Team, offers the service of qualified and experienced Career Advisers who will be very willing to discuss with
Contact details for Further Learning Opportunities	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/ Competent Authority Contact Details (where applicable - in the case of a programme leading to Regulated Profession)

Not Applicable

Programme	Unit Code	Unit Title	ECTS	Year	Semester
Structure	ITNET-506-2006	Linux Fundamentals	6	1	1
	ITSYS-506-1604	Computer Platforms	6	1	1
	ITDBS-506-1603	Database Programming I	6	1	1
	ITNET-506-1602	Networking Concepts	6	1	1
	CDKSK-503-	English for Academic	3	1	1
	2328	Purposes			
	ITCSN-506-2301	Server Administration	6	1	2
	ITSFT-506-2007	Software Test Automation	6	1	2
	ITSFT-506-1609	Low Level Programming 1	6	1	2
	ITSTY-506-1601	Security Fundamentals	6	1	2
	CDWBL-506-	Work Based Learning I	6	1	2
	1901				
	ITCSN-503-2302	Scripting for Networking I	3	1	2
	CDWBL-506-	Work Based Learning II	6	2	1,2
	1902				
	ITMTH-506-2303	Maths for Cybersecurity	6	2	1
	ITSFT-506-1612	Server Side Scripting	6	2	1
	ITNET-506-2008	Digital Forensics	6	2	1
	ITCSN-503-2303	Scripting for Networking II	3	2	1
	ITNET-506-1806	Network Security	6	2	2
	ITNET-506-2009	Linux Server Administration	6	2	2
	ITSFT-506-2012	Securing Applications	6	2	2
	ITRSH-506-2101	Research Design I	6	2	2
	CDKSK-604-	Entrepreneurship	4	2	2
	2336				
	CDKSK-602-	Community Social	2	2	2
	2335	Responsibility			
	CDKSK-503-	English for Dissertation	3	2	2
	2329			-	
	ITCYB-606-2301	Malware Analysis	6	3	1
	ITCYB-606-2302	Cyber Threat Intelligence	6	3	1
	ITCYB-606-2303	Mobile Device Security	6	3	1
	ITSFT-606-2303	Systems Programming	6	3	1
	ITCSN-606-2304	Advanced Digital Forensics	6	3	2
	ITCYB-606-2304	Offensive Security	6	3	2
	ITNET-606-1614	Cloud Infrastructures	6	3	2
	ITRSH-606-2102	Research Design II	6	3	2
	ITDIS-612-1601	Dissertation	12	3	2

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



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

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, 5th Revised Edition.