## Degree in Computing with Security & Cryptography

### 6

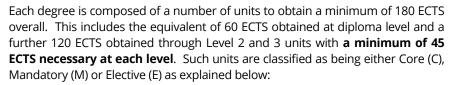
TOTAL CREDITS: 180ECTS

DURATION: Full time | Part time 2 Year | 3 Years (18 Months) | (27 Months)



### **Job Opportunities**

Cyber Security Analyst IS Analyst Network Security Cryptography Analyst Security Management



- Core units units which are core to all computing programmes. These are compulsory for all students.
- Mandatory units units which are mandatory for that particular programme.
  These units are compulsory for those students following the respective programme.
- Elective units units which are not compulsory but still required to ensure the students complete the minimum ECTS requirements for the degree. Such units are typically selected in relation to the programme of studies being followed by the student. Elective units are subject to availability and at the discretion of the institute.

### **Core Units**

The following Level 2 and Level 3 units are compulsory to all the computing degrees and amount to a total of **46 ECTS**.

Code	Study Unit	ECTS
SMc20347	Software Engineering A	7
SMc20374	Programming for Prototyping W	4
SMc20375	Specified Task S + SU	7
SMc20386	Introduction to Intelligent Systems A	3
SMc21372	Statistics A	7
SMc30390	Research Project Supervision (All Year)	15
SMc30397	Designing and Analysing Experiments <b>A</b>	3



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Code	Study Unit	ECTS
SMc20390	Private and Public Key Encryption TBA	2
SMc21342	Internet Programming W	7
SMc21349	Intermediate Data Communications A	7
SMc21363	Implementing and Maintaining Database Security and Integrity ${\it W}$	3
SMc21391	Cryptanalysis <b>TBA</b>	4
SMc21392	Modern Cryptographic Systems I A	6
SMc21393	Modern Cryptographic Systems II W	6
SMc30418	Professional Issues TBA	7
SMc31419	Computer Forensics TBA	7

The remaining **25 ECTS** credits (minimum) to complete the qualification need to be selected from the Elective units below:

Code	Study Unit		ECTS
SMc20348	Algorithmic Design and Analysis	W	7
SMc20369	Industrial Placement Programme S	+ SU	9
SMc20373	Mobile Interaction	W	4
SMc20385	Fundamentals of Mixed Reality	TBA	3
SMc21341	Graphical Object-oriented Programming	Α	7
SMc21353	Server Side Scripting	Α	3
SMc21371	Advanced Database Principles and Distributed System	ms W	3
SMc21380	Number Systems and Functions	TBA	4
SMc21381	Logic and Set Theory	TBA	2



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# Degree in Computing with Security & Cryptography STMARTINS.EDU/6C SEC

MQF LEVEL QUALIFICATION

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TOTAL CREDITS: 180ECTS

**DURATION:** Full time / 2 Year 3 Years (18 Months)

Part time (27 Months)



### **Job Opportunities**

Cyber Security Analyst **IS Analyst** Network Security **Cryptography Analyst** Security Management



Code	Study Unit		ECTS
SMc21382	Graph Theory and Trees	TBA	2
SMc21383	Series and Matrices	TBA	4
SMc30381	Data Compression	TBA	7
SMc30395	E-business	TBA	7
SMc30398	Requirements Engineering	S	4
SMc30400	Introduction to Systems Programming	TBA	2
SMc30413	Fintech - Technology and Concepts	TBA	7
SMc30420	Security Management	TBA	7
SMc31387	Artificial Intelligence	TBA	7
SMc31402	Machine Learning	TBA	7
SMc31403	Natural Language Processing	TBA	7
SMc31414	Advanced Machine Learning and Concepts	TBA	7
SMc31421	Ethical Hacking	TBA	7
SMc31422	Wireless Security	TBA	7
SMc31423	Email and Web Security	TBA	7
SMc31424	Key Management	TBA	7
SMc31425	Hash Functions	TBA	7

#### The following units are Precluded for this programme:

Code	Study Unit	ECTS
SMc30382	Computer Security TBA	7
SMc30415	The Ethics of Information Technology in Society TBA	3