Degree in Computing with Information Systems

MQF LEVEL QUALIFICATION **6**

TOTAL CREDITS: 180ECTS

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

Job Opportunities

Software Engineer
Systems Administrator
Database Admin
IT Consultant
System Analyst
Applications Developer

Each degree is composed of a number of units to obtain a minimum of 180 ECTS overall. This includes the equivalent of 60 ECTS obtained at diploma level and a further 120 ECTS obtained through Level 2 and 3 units with **a minimum of 45 ECTS necessary at each level**. Such units are classified as being either Core (C), Mandatory (M) or Elective (E) as explained below:

− **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	*A*	3

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Further to the 46 ECTS from the Core units, the Degree in Computing with Information Systems consists of the following Mandatory units for an additional **59 ECTS**:

Code	Study Unit		ECTS
SMc20348	Algorithmic Design and Analysis	W	7
SMc21341	Graphical Object-oriented Programming	A	7
SMc21342	Internet Programming	W	7
SMc21350	Introduction to Enterprise Networking	W	7
SMc21363	Implementing and Maintaining Database Security and Integrity	W	3
SMc21371	Advanced Database Principles and Distributed Systems	W	3
SMc30389	Information Systems Management	A + W	7
SMc30395	E-business	A + W	7
SMc30396	Software Engineering Project Management	A + W	7
SMc30398	Requirements Engineering	S	4

The remaining **15 ECTS** credits (minimum) to complete the qualification need to be selected from the Elective units below:

Code	Study Unit		ECTS
SMc20369	Industrial Placement Programme	S + SU	9
SMc20373	Mobile Interaction	W	4
SMc20385	Fundamentals of Mixed Reality	TBA	3
SMc20390	Private and Public Key Encryption	TBA	2
SMc21349	Intermediate Data Communications	A	7
SMc21353	Server Side Scripting	A	3
SMc21380	Number Systems and Functions	TBA	4

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Code	Study Unit		ECTS
SMc21381	Logic and Set Theory	TBA	2
SMc21382	Graph Theory and Trees	TBA	2
SMc21383	Series and Matrices	TBA	4
SMc30381	Data Compression	TBA	7
SMc30382	Computer Security	TBA	3
SMc30400	Introduction to Systems Programming	TBA	4
SMc30413	Fintech - Technology and Concepts	TBA	7
SMc30415	The Ethics of Information Technology in Society	TBA	7
SMc30420	Security Management	TBA	2
SMc31387	Artificial Intelligence	TBA	7
SMc31402	Machine Learning	TBA	3
SMc31403	Natural Language Processing	TBA	7
SMc31414	Advanced Machine Learning and Concepts	TBA	7

There are no Precluded units for this programme.

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