

## MSc Information Technology (Conversion)

Academic year: 2022-2023

Programme documents detail the aims, learning strategies, structure and intended learning outcomes that students should achieve if they fully engage with the learning provided within the programme. The document is intended to support and inform prospective students, current students, academic and support staff, external stakeholders (such as PSRBs) and external examiners.

<b>1. PROGRAMME INFORMATION</b>	
Title of final award	MSc Information Technology (Conversion)
Code	OUpm023
Awarding Body	Open University of Mauritius
Academic Unit	Communication and IT
Programme Manager	Ms Rubeena Doomun
Administrative contact point	Ms Kalindee Lucknauth
Programme duration	<i>Minimum 1 year</i> <i>Maximum 2 years</i>
Frequency of contact hours	Face to face/Online sessions on a weekly basis (Normally Saturday and One Weekday after office hours)
Total Credits	120
Credits per year	Not applicable
MQA NQF level	Level 9
EHEA level	Level 7
External Accreditors	Not applicable
Collaborative Partners	Not applicable
Programme approval date	10.12.2021
Last revision	Not applicable
Last update	Not applicable

## 2. ENTRY REQUIREMENTS

General:	<p>General Entry Requirements under Direct Entry to Taught Postgraduate Programmes:</p> <p>Successful completion of an undergraduate degree with</p> <ul style="list-style-type: none"><li>· at least a Second Class or 50%, whichever is applicable or</li><li>· a GPA not less than 2.5 out of 4 or equivalent, from a recognised Higher Education Institution.</li></ul> <p>Or</p> <p>an Ordinary Degree or a non-honours degree from a recognized University with at least 2 years of work experience in the relevant field which demonstrate that a candidate possesses appropriate knowledge and skills at a standard acceptable by the Academic Council.</p> <p>Or</p> <p>possesses a Bachelor’s degree with an award below a Second-Class degree from a recognised institution and has at least two years of relevant working experience.</p> <p>Or alternative qualifications acceptable to the Open University of Mauritius.</p>
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## 3. PROGRAMME OVERVIEW

Aims and objective of the programme:	<p>The MSc in Information Technology is a conversion course, suitable for students with some knowledge of the subject. It is designed to give students a grounding in both the fundamentals of information technology and practical software development skills. Through a combination of practical and theory-based learning, students develop a firm understanding of subjects from software concepts and software engineering principles, web application development, and IT security.</p> <p>Students join this programme from a wide range of first degrees, from the technical and scientific to the social sciences and humanities. Graduates of this degree are highly sought after by employers due to the special knowledge, expertise and skills acquired.</p>
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<b>Intended Learning outcomes:</b> After successfully completing this programme, students will be able to:	
Knowledge and understanding	<p><b>K1.</b> Apply technological principles underlying Information Technology.</p> <p><b>K2.</b> Use specialist tools and state of the art techniques used to design, implement and verify software-based systems.</p> <p><b>K3.</b> Practice methods of software design, development and testing.</p> <p><b>K4.</b> Relate to methods of research and enquiry within the discipline.</p>
Cognitive skills	<p><b>C1.</b> Analyse problems to determine appropriate methods of design, testing and evaluation.</p> <p><b>C2.</b> Find, read, understand and explain literature related to advanced and specialised areas of information technology, including scientific publications, industrial documentation, standards, ethical, legal and environmental guidance.</p> <p><b>C3.</b> Formulate a research project involving an advanced and specialised software application, system, or other web-based solution, using appropriate state of the art techniques, technologies and tools.</p>
Practical/professional Skills	<p><b>P1.</b> Use specialist software development and analysis tools.</p> <p><b>P2.</b> Model, and design advanced and specialised software applications, information systems, and other web-based solutions.</p> <p><b>P3.</b> Test, evaluate, and maintain such applications and solutions.</p>
Transferable skills	<p><b>T1.</b> Use a range of sources, both conventional and electronic, to locate relevant information, and critically appraise that information.</p> <p><b>T2.</b> Communicate effectively and present technical information concisely in written and verbal forms to a range of audiences.</p> <p><b>T3.</b> Work as a member of a project team, managing your own contribution and the overall task.</p> <p><b>T4.</b> Work independently on a significant research project, managing time and risk in an effective manner.</p>

#### 4. PROFESSIONAL, STATUTORY AND REGULATORY BODIES (where applicable)

Not applicable

#### 5. LEARNING AND TEACHING STRATEGY

##### Learning and teaching methods:

Class will mostly take place via the Open University e-platform. In addition to the e-platform, the module offers optional face-to-face classes. While these classes are not mandatory, it is strongly advised that for those students who can attend, that they do so.

For every module, students will be expected to complete a range of activities and will have a variety of opportunities to achieve the learning outcomes through a combination of lectures, practical work, directed reading, presentations, technical reports, coursework assignments and written examinations.

At the end of the taught part of the course you will have undertaken an individual applied dissertation project. A coursework can vary from design work to reports and presentations resulting from directed reading and coursework assignments with a literature review component. The individual applied dissertation project in the final year includes independent research, project implementation and report writing. After the submission of the project, students will go through a viva/oral defence.

<b>Strategy</b>	<b>LO</b>
Practical exercise	K2,K3,P1,P2,P3
Group work	T3
Independent research	C2, K4
Independent learning	K1,C1-C3,T4
Presentation	T2
Technical Report	T1

#### **Overall Workload:**

Your overall workload as a student consists of independent learning, e-learning activities and, if you choose to, face to face sessions. The following gives you an indication of how much time you will need to spend on the different components of your programme at each level. Each ECTS credit taken equates to 25-30 hours of study time.

The expected study time for this programme will be as follow:

Year 1: 3,600 hours for 120 ECTS credits.

Typically, for each year of your degree you will spend 0-15% of your time in face to face sessions, 35-40% of your time engaging with e-learning activities and 60% of your time in independent study time.

A typical study week for a student will involve some optional face to face sessions, required engagement in online discussion forum, the completion of online activities and independent study time to review attached readings, textbooks and relevant sections of the module document. Students should expect to devote 8 to 12 hours of study time per week per module.

These are indicative and may vary from student to student.

## **6. ASSESSMENT STRATEGY**

### **Assessment Methods**

A range of formative and summative assessment exercises are designed to enable you to demonstrate and apply your knowledge and understanding.

Most modules will consist of a Tutor Marked Assessment component and an examination. TMAs include:

- technical reports
- software designs and implementation
- group project
- project presentation
- applied dissertation project
- viva

Assessment mapping: See Appendix Page 11.

#### **Academic Feedback**

Throughout the course of your studies, tutors will provide informal feedback on your online activities and class contributions. Feedback may be individual or provided to the class as a whole.

Each summative assessment will be accompanied by detailed marking criteria and marking scheme detailing the expectation of the assessment at each grade classification level. Feedback on assessment will be provided along the marking criteria. Marking criteria will be made available to the student at the same time as the assessment details.

Students will receive written individual feedback on all TMA components.

The university policy on assessment feedback and guidance on provisional marks can be found in the General Rules.

#### **Late submission, Extension and Re-sit Policy**

The university policy on late submission, Extension and re-sits can be found in the General Rules.

#### **Special Circumstances**

The university policy on special circumstance can be found in the General Rules.

#### **Continuous assessment and Exam Regulations**

The university regulations on continuous assessment and examination can be found in the General Rules

#### **Dissertation**

**The University Regulations on Dissertations can be found in the General Rules.**

### **7. ACADEMIC MISCONDUCT**

As a safeguard to the quality and standard of Open University's qualifications and awards, the university takes any incidence of academic misconduct seriously and will investigate any reported case.

Academic Misconduct refers to any activity where a student, through unpermitted means, seeks to gain an advantage in the completion of an assessment. Any unpermitted action will be considered as academic misconduct when occurring during a formal examination, a TMA, or any other form of assessment considered by Board of Examiners and undertaken in pursuit of a University qualification or award.

**Plagiarism** (using, intentionally or unintentionally another’s person’s work and presenting it as its own) will be systematically checked through an automated text-matching detection software that supports the detection of plagiarism: Turnitin.

**Any suspected cases of academic misconduct will be reported and investigated. Academic misconduct offences, may lead to suspension or expulsion from the University.**

The university regulations on Academic Misconduct can be found in the General Rules.

## 8. PROGRAMME STRUCTURE

*C = Core i.e. modules which must be taken to be eligible for the award*

*E = Electives i.e. module chosen by students from a range of listed optional modules*

S1 = Semester 1

S2 = Semester 2

### Year 1 – Level 9 (NQ-MQA) – 2<sup>nd</sup> cycle Advanced (NQ-EHEA)

All core modules must be taken

Code	Module Title	Type	Semester	Credits
<b>OUpm023111</b>	Introduction to Programming	C	S1	20
<b>OUpm023112</b>	Web Technologies	C	S1	20
<b>OUpm023113</b>	Database Principles and Design	C	S1	10
<b>OUpm023114</b>	Research Methods in IT	C	S1	10
<b>OUpm023121</b>	Software Engineering Principles	C	S2	10
<b>OUpm023122</b>	Object Oriented Programming	C	S2	10
<b>OUpm023123</b>	IT Security	C	S2	10
<b>OUpm023124</b>	Applied Dissertation Project	C	S2	30
<b>Credit Total</b>				<b>120</b>
<b>Overall Programme Credit Total</b>				<b>120</b>

## 9. GRADING

**Grading system:**

Assessments are graded in percentage and correspond to a letter grade and a grade point.

To pass a module students need an overall of 40% weighted average of their combined continuous assessment and examination.

Marks (x) %	Description	Letter Grade	Grade point
$X \geq 70$	Excellent	A	5
$60 \leq X < 70$	Very Good	B	4
$50 \leq X < 60$	Good	C	3
$40 \leq X < 50$	Satisfactory	D	2
$X < 40$	Ungraded	U	0
Non-graded/pending	See section 17.1.1 in assessment rules and regulation for pending grades letter codes		

To pass a module students need an overall of 40% weighted average of their combined continuous assessment and examination. All components of TMAs will have to have been submitted and examination sat to pass the module.

Students will normally not be allowed to postpone more than two modules for the following semester.

If a student obtains grade "U" in three or more modules in the same semesters, and the CPA is below 40 for that semester, the student will be requested to repeat the semester unless decided otherwise by the Academic Council upon the recommendation of the Board of Examiners. When repeating a semester, a student may or may not take the modules for which Grade C or above have been obtained.

If after completing a level the student's CPA < 40, the student will have to repeat the entire academic year, and retake the modules as and when offered. However, s/he will not be required, if s/he wishes, to retake 3 module(s) for which Grade C or above has been obtained.

Students will not be allowed to repeat more than two semesters during the entire duration of the programme.

University general marking criteria for postgraduate exams and postgraduate dissertations can be found in the General Rules.

### Cumulative Point Average (CPA):

CPA will determine the classification of your degree. Your CPA is the weighted average of your overall mark in each module. The weight being the number of credits attached to each module and your average module mark being the weighted average of the continuous assessment and final exam.

Example calculation of the Total CPA at level 9 for Taught postgraduate programmes

Semester	Course	% Scores	ECTS Credit unit	Module Credit x % Score
1	MAXX1	65	20	$65 * 20 = 1080$
	MAXX2	73	20	$73 * 20 = 1460$

2	MAXX3	42	10	42*10 = 420
	MAXX4	54	10	54 *10 = 540
	MAXX4	60	10	60*10= 600
	MAXX6	65	10	65*10 = 650
	MAXX7	66	10	66*10 = 660
	MAXX8	60	30	60*30 = 1800
	Total		120	7210
<b>CPA = 7210/120</b>				<b>60.1</b>

### 10. PROGRESSION, EXIT POINTS AND AWARD

Classification of Awards For the award of the degree, all modules of the programme must be completed.

The Postgraduate certificate and diploma are awarded as possible exit points in the programme as indicated in the table below:

Award	Title	Level NQ-MQA	Total required Credits	Classification
Postgraduate Certificate	Information Technology (Conversion)	9	30	<b>Distinction:</b> CPA $\geq$ 70 <b>Merit:</b> 60 $\leq$ CPA < 70
Postgraduate Diploma	Information Technology (Conversion)	9	60	<b>Pass:</b> 40 $\leq$ CPA < 60
Master's of Science	Information Technology (Conversion)	9	120	<b>No award:</b> CPA < 40

### 11. STUDENT SUPPORT

Support available through:  
[studentsupport@open.ac.mu](mailto:studentsupport@open.ac.mu)

### 12. Have your say

Open University values student feedback and students will be given opportunities to have their say on their learning experience in the following way:

- Student programme and module evaluation surveys;
- Acting as student representative and participate in a range of committees such as the staff-student consultative committee;
- Participate in programme validation processes.

The University will respond to student feedback through the following channels:



- Response and action taken following the module evaluation survey will be posted on the e-platform;
- Action from minutes will be monitored by the chair of the relevant committees;
- Annual programme monitoring process will take into account student feedback;
- Programme review process (every five years).

### 13. Curriculum Map of Programme learning outcomes against module intended learning outcomes

Module unit and code				Knowledge and Understanding				Cognitive Skills			Transferable Skills and Personal Attributes				Practical skills		
Module title	Code	Type	Mode	K1	K2	K3	K4	C1	C2	C3	T1	T2	T3	T4	P1	P2	P3
<b>Year 1 NQ-MQA Level 9</b>																	
Introduction to Programming	OUpm023111	C	BL	•	•	•		•		•	•	•		•	•	•	•
Web Technologies	OUpm023112	C	BL	•	•	•	•	•		•	•	•	•		•	•	•
Database Principles and Design	OUpm023113	C	BL	•	•	•		•			•	•		•	•	•	•
Research Methods in IT	OUpm023114	C	BL				•		•	•	•	•		•			
Software Engineering Principles	OUpm023121	C	BL	•	•	•	•	•	•	•	•	•	•		•	•	
Object Oriented Programming	OUpm023122	C	BL	•	•	•	•	•			•	•		•	•	•	•
IT Security	OUpm023123	C	BL				•		•	•	•	•		•			
Applied Dissertation Project	OUpm023124	C	BL	Subject to the topic, various combinations of the knowledge and understanding learning outcomes will be demonstrated				•	•	•	•	•		•	•	•	•

C = Core; E = Elective; DL = Distance Learning; BL= Blended Learning; CD = Campus delivery

## Appendix 1: Assessment mapping

Module Code	Module Title	Assessment Method
<b>Year 1 NQ-MQA Level 9</b>		
OUpm023111	Introduction to Programming	<b>TMA 100%:</b> Online exercises (10% of TMA) Project Presentation (90% of TMA)
OUpm023112	Web Technologies	<b>TMA 100%:</b> Online exercises (10% of TMA) Group Project Presentation includes Individual Component (90% of TMA)
OUpm023113	Database Principles and Design	<b>TMA 40%:</b> Online quiz (10% of TMA) Technical Report (30% of TMA) <b>Final Examination 60%</b>
OUpm023114	Research Methods in IT	<b>TMA 100%:</b> Online exercises (10% of TMA) Research Proposal (90% of TMA)
OUpm023121	Software Engineering Principles	<b>TMA 40%:</b> Online exercises (10% of TMA) Group Research Project Presentation includes Individual Component (30% of TMA) <b>Final Examination 60%</b>
OUpm023122	Object Oriented Programming	<b>TMA 100%:</b> Online exercises (10% of TMA) Project Presentation (90% of TMA)
OUpm023123	IT Security	<b>TMA 40%:</b> Online exercises (10% of TMA) Technical Report (30% of TMA) <b>Final Examination 60%</b>
OUpm023124	Applied Dissertation Project	Research project software together with a written report (14,000 to 16,000 words) followed by Viva- 100%

