

MSc Software Project Management – IC565

1. CONTEXT AND OBJECTIVES

This MSc Software Project Management programme is a response to the increasing need for leaders who can manage people and processes, who communicate well and who are knowledgeable about the current software development practices in the software industry. This programme is primarily intended for Computing graduates who want to enhance their general management, project management and IT management competencies.

The objectives of the programme are to:

- Provide graduates from IT and related fields with the necessary skills to plan and design software projects;
- Provide a knowledge base and practical skills in leading and managing software development teams; and
- Engage students in different activities which involve problem solving and critical thinking so that they can analyse business problems and come up with information system solutions.

Competencies and Career Opportunities

After successful completion of this programme, students should be equipped with competencies in:

- Project management with skills such as managing project scope, time, cost and quality;
- IT management with skills such as software lifecycles, estimating, constructing software, project management software tools and techniques; and
- General management skills such as leading, negotiating, communicating and team building.

These competencies will help the students aim at managerial positions such as team leaders, test managers and project managers in the IT field.

2. LEARNING OUTCOMES

After successful completion of this programme, students should be able to:

- Acquire practical experience of software projects from the initial analysis of a problem, through design, planning and testing in order to prepare for effective participation in the software industry;
- Demonstrate advanced knowledge and skills in professional practice in IT and management of software systems;
- Apply ethics and quality standards related to software project management and apply this knowledge in practical situations;
- Demonstrate problem solving skills that involve model building and analysis, applying both theoretical and empirical knowledge to make choices and find solutions; and
- Prepare for an effective career with the potential to reach a leadership role with competencies in human resource management and accounting.

3. TEACHING AND LEARNING METHODS

The MSc Software Project Management programme consists of Teaching Contact Hours, Self-Study and Other Learning Activities. Teaching methods may include face to face lectures, online delivery, tutorials or practical sessions.

For each module, 6 LCCS credits contribute to 30 hrs of direct contact, 60 hrs of self-study and 90 hrs of other activities and SIS 6000(A). More details about the hours in each category will be specified in the module catalogue.

Other Learning Activities may comprise of the following:

- Working on assignments;
- Preparation for Class Tests and Examinations;
- Sitting for Class Tests and Examinations;
- Group work;
- Attending Workshops/Conferences recommended by the Department/Faculty;
- Fieldwork;
- Site Visits/Trips;
- Presentations among peers;
- Experiential Learning;
- Guest lectures.

4. ENTRY REQUIREMENTS

- **General Requirements**

As per General Entry Requirements for Admission to the University for Postgraduate programmes.

- **Programme (Specific) Requirements**

Any undergraduate degree in Computing or related areas. Preference will be given to candidates having at least one year of relevant work experience.

5. PROGRAMME DURATION

The normal duration of the programme will be as detailed below.

	Full Time (years)	Part Time (years)
Minimum	1	2
Maximum	2	4

However students wishing to exit earlier, with a Postgraduate Diploma, can do so subject to their meeting the requirements specified in section 6.

6. MINIMUM LCCS CREDITS REQUIRED FOR DEGREE AWARD:

- **For each Academic Year:** As per University Regulations.
- **For Degree Award:** 72 LCCS Credits
- **Exit points: (optional)**

The student can exit the programme with a *Postgraduate Diploma* or *Postgraduate Certificate*, as follows:

- Students may exit with a Postgraduate Diploma in Software Project Management after having earned 48 LCCS credits.
- Students may exit with a Postgraduate Certificate in Software Project Management after having earned 24 LCCS credits.

7. ASSESSMENT AND DEADLINES

7.1. Modules

Each module will carry 100 marks and will be assessed as follows:

Continuous Assessment: At least 40%

Continuous assessment may be based on at least 2 assignment(s), tests or presentations and carry at least 40% of total marks.

Examinations: Up to 60%

The written exams will be of 3 hour duration with up to 60% of total marks. For a student to pass a module, an overall total of 40% for combined continuous assessment and written examination components will be required without minimum threshold within the individual continuous assessment and written examination.

7.2. Project

Project will carry 24 LCCS credits and it is crucial that students attend all lectures in the *Research Methods in Software Engineering* module to be properly equipped to work on the project. Assessment may also include performance and/or demonstration at *viva-voce*. The number of words for the dissertation will be between 12,000 and 14,000.

Submission Deadlines for Dissertation:

	Full Time	Part Time
Start	January - Level 1	January - Level 2
Submission	Last working day of August - Post Level 1	Last working day of August - Post Level 2

7.3. Practitioners Workshops

The three practitioners workshops shall be compulsory and non-examinable 2 LCCS credits modules. As part of the assessment students will be required to submit a report of 2000 – 2500 words and to give oral presentations. Students will be assigned Grade “S” upon satisfactory attendance and performance in these workshops in order to be eligible for the award of the degree.

8. LIST OF MODULES

Module Code	Module Name	¹ L/T/P (Contact Hours)	Self-Study Hours	Other Learning Hours	LCCS Credits
CORE MODULES					
SIS 6079	Managing Software Projects	20 + 10 + 0	60	90	6
SIS 6092	Project Planning, Design and Appraisal	20 + 10 + 0	60	90	6
MGT 5212	Human Resources and Quality Management	20 + 10 + 0	60	90	6
SIS 6095	Software Quality and Standards	20 + 10 + 0	60	90	6
SIS 6098	Requirements Management and Testing	20 + 10 + 0	60	90	6
DFA 6233	Accounting and Finance for Project Managers	20 + 10 + 0	60	90	6
SIS 6099	Research Methods in Software Engineering	20 + 10 + 0	60	90	6
SIS 6000(A)	Project				24
PRACTITIONERS WORKSHOPS					
MGT 6050	Leadership & Team Management	10 + 0 + 0	20	30	2
LAWS 6030	Legal & Ethical aspects of Projects	10 + 0 + 0	20	30	2
SIS 6009	Project Management in Software Industries	10 + 0 + 0	20	30	2

Note:

- Contact Hours = L: Lectures , T: Tutorials , P: Practicals
- The Practitioners Workshops may be offered in any semester depending on the availability of the resource persons.

9. PROGRAMME PLAN

- Full Time

SEMESTER 1

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
SIS 6079	Managing Software Projects	20 + 10 + 0	60	90	6
SIS 6092	Project Planning, Design and Appraisal	20 + 10 + 0	60	90	6
MGT 5212	Human Resources and Quality Management	20 + 10 + 0	60	90	6
SIS 6099	Research Methods in Software Engineering	20 + 10 + 0	60	90	6
DFA 6233	Accounting and Finance for Project Managers	20 + 10 + 0	60	90	6
Sub Total					30

SEMESTER 2

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
SIS 6095	Software Quality and Standards	20 + 10 + 0	60	90	6
SIS 6098	Requirements Management and Testing	20 + 10 + 0	60	90	6
SIS 6000(A)	Project				24
Sub Total					36

SEMESTER 1 or 2

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
MGT 6050	Leadership & Team Management	10 + 0 + 0	20	30	2
LAWS 6030	Legal & Ethical aspects of Projects	10 + 0 + 0	20	30	2
SIS 6009	Project Management in Software Industries	10 + 0 + 0	20	30	2
Sub Total					6

- Part Time

SEMESTER 1 (YEAR 1)

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
SIS 6079	Managing Software Projects	20 + 10 + 0	60	90	6
SIS 6092	Project Planning, Design and Appraisal	20 + 10 + 0	60	90	6
MGT 5212	Human Resources and Quality Management	20 + 10 + 0	60	90	6
Sub Total					18

SEMESTER 2 (YEAR 1)

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
SIS 6095	Software Quality and Standards	20 + 10 + 0	60	90	6
SIS 6098	Requirements Management and Testing	20 + 10 + 0	60	90	6
DFA 6233	Accounting and Finance for Project Managers	20 + 10 + 0	60	90	6
Sub Total					18

SEMESTER 3 (YEAR 2)

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
SIS 6099	Research Methods in Software Engineering	20 + 10 + 0	60	90	6
Sub Total					6

SEMESTER 4 (YEAR 2)

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
SIS 6000(A)	Project				24
Sub Total					24

SEMESTER 2 or 3 or 4

Module Code	Module Name	L*/T*/P* (Contact Hours)	Self-Study Hrs	Other Learning Hrs	LCCS Credits
MGT 6050	Leadership & Team Management	10 + 0 + 0	20	30	2
LAWS 6030	Legal & Ethical aspects of Projects	10 + 0 + 0	20	30	2
SIS 6009	Project Management in Software Industries	10 + 0 + 0	20	30	2
Sub Total					6

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*This Programme has been amended as follows:
Year programme was launched: 2016
Years programme were previously revised: 2018 and 2019*