

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.

Objectives

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

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.

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, except for SIS 6000A, for which the details about the total 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**

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

- **Programme (Specific)**

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 is 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:

- Students may register for a minimum of 12 and a maximum of 48 LCCS credits, per year.
- For Degree Award: 72 LCCS Credits
- For Postgraduate Diploma Award: 48 LCCS Credits
- For each academic year: As per the LCCS Credits per Semester/Year for Programmes of Studies abiding by semester regulations.

7. Assessment and Deadlines

The assessment for each module may be based on one or a combination of the following:

- Examination;
- Continuous Assessment;
- Software Evaluation; and
- Portfolio Evaluation.

Students will be assessed by continuous assessment (CA) and/or formal examination for taught modules. The weight of the CA will be at least 40%, while examination may carry up to 60% of the total marks. The specific details and/or formula for the calculation of the final mark are provided in the Module Catalogue for each module.

Information regarding the classification of award and student grading is provided in the university regulations.

Students are required to register for modules which they intend to follow in a given semester on date(s) specified by the Faculty.

Submission Deadlines for Project:

	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

8. List of Modules

Module Code	Module Name	L*/T*/P* Contact Hours/Week	Self- Study Hours/ Week	Other Learning Hours/ Week	LCCS Credits
Core Modules					
SIS 6079	Managing Software Projects	2 + 1 + 0	6	9	6
SIS 6092	Project Planning, Design and Appraisal	2 + 1 + 0	6	9	6
MGT 5212	Human Resources and Quality Management	2 + 1 + 0	6	9	6
SIS 6095	Software Quality and Standards	2 + 1 + 0	6	9	6
SIS 6098	Requirements Management and Testing	2 + 1 + 0	6	9	6
DFA 6233	Accounting and Finance for Project Managers	2 + 1 + 0	6	9	6
SIS 6099	Research Methods in Software Engineering	1 + 0.5 + 0	7.5	9	6
SIS 6000(A)	Project				24
Practitioners Seminars					
MGT 6050	Leadership & Team Management	1 + 0 + 0	2	3	2
LAWS 6030	Legal & Ethical aspects of Projects	1 + 0 + 0	2	3	2
SIS 6009	Project Management in Software Industries	1 + 0 + 0	2	3	2

Note: Contact Hours = L*: Lectures + T*: Tutorials + P*: Practicals

Note:

1. There will be 3 Practitioners' workshops, the first in **Leadership & Team Management**, the second in **Legal & Ethical aspects of Projects** and the third in **Project Management in Software Industries**. These seminars shall be compulsory and will be 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 pass the module.
2. The Practitioners' Seminars may be offered in any semester depending on the availability of the resource persons.

9. Programme Plan

Full Time

Semester	Module Code	Module	L*/T*/P* Contact Hours/Week	LCCS Credits
Semester 1	SIS 6079	Managing Software Projects	2 + 1 + 0	6
	SIS 6092	Project Planning, Design and Appraisal	2 + 1 + 0	6
	MGT 5212	Human Resources and Quality Management	2 + 1 + 0	6
	SIS 6099	Research Methods in Software Engineering	1 + 0.5 + 0	6
	DFA 6233	Accounting and Finance for Project Managers	2 + 1 + 0	6
Semester 2	SIS 6095	Software Quality and Standards	2 + 1 + 0	6
	SIS 6098	Requirements Management and Testing	2 + 1 + 0	6
	SIS 6000(A)	Project		24
Semester 1/2	MGT 6050	Leadership & Team Management	1 + 0 + 0	2
	LAWS 6030	Legal & Ethical aspects of Projects	1 + 0 + 0	2
	SIS 6009	Project Management in Software Industries	1 + 0 + 0	2
Total:				72

Part Time

Semester	Module Code	Module	L*/T*/P* Contact Hours/Week	LCCS Credits
Semester 1	SIS 6079	Managing Software Projects	2 + 1 + 0	6
	SIS 6092	Project Planning, Design and Appraisal	2 + 1 + 0	6
	MGT 5212	Human Resources and Quality Management	2 + 1 + 0	6
Semester 2	SIS 6095	Software Quality and Standards	2 + 1 + 0	6
	SIS 6098	Requirements Management and Testing	2 + 1 + 0	6
	DFA 6233	Accounting and Finance for Project Managers	2 + 1 + 0	6
Semester 3	SIS 6099	Research Methods in Software Engineering	1 + 0.5 + 0	6
Semester 4	SIS 6000(A)	Project		24
Semester 1/2/3/4	MGT 6050	Leadership & Team Management	1 + 0 + 0	2
	LAWS 6030	Legal & Ethical aspects of Projects	1 + 0 + 0	2
	SIS 6009	Project Management in Software Industries	1 + 0 + 0	2
Total:				72

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