

MSc Total Quality Management & Performance Excellence – E543

1. Aims and Objectives

Total Quality Management is recognised as an important concept which cuts across all sectors of activities, be it in, public, parastatal and private sectors. The current trend is now to move towards a culture of excellence in all activities undertaken by any organisation in order to minimise/eradicate wastes and non-value added activities.

The programme has been designed to meet the requirements of a wide range of applicants including those:

- involved in quality improvement programmes
- f requiring new tools, methods, and techniques for day to day problem solving such as waste minimisation.
- In charge of quality management projects such as ISO certification.
- responsible for the setting up of TQM initiatives such as Quality Circles.

This programme covers the complete range of topics, from quality concepts, basic and advanced quality tools & techniques, quality management systems, quality excellence methodologies, continuous improvement methodologies, to the human development and motivation of people across an organisation.

The programme is very practical in nature, and aims at providing strong personal quality management skills to the students.

The aim of the Programme is to enable those employed in a specific quality management role or other technical discipline to make a more effective contribution to their organisation, particularly in the field of continuous improvement of processes.

The main objective of the Programme is to provide students with quality, organisational and people management skills and techniques to enable them to make a significant contribution to an organisation's quality policy.

2. General Entry Requirements

Successful completion of an undergraduate degree with at least a Second Class or 50 % which ever applicable or a GPA not less than 2.50, or equivalent, from a recognized higher education institution Or alternative qualification acceptable to the UoM.

3. Programme Requirements

Preference will be given to candidates with relevant work experience.

4. General And Programme Requirements – Special Cases

The following may be deemed to have satisfied the General and Programme requirements for admission:

- (i) Applicants who do not satisfy any of the requirements as per Regulations 2 and 3 above but who submit satisfactory evidence of having passed examinations which are deemed

by the Senate to be equivalent to any of those listed.

- (ii) Applicants who do not satisfy any of the requirements as per Regulations 2 and 3 above but who in the opinion of Senate submit satisfactory evidence of the capacity and attainments requisite to enable them to pursue the programme proposed.
- (iii) Applicants who hold a full practising professional qualification obtained by examination.

5. Programme Duration

The Programme will be offered on a part-time basis. The duration of the Graduate Programme should normally not exceed 4 years (8 semesters).

	Normal	Maximum
Master's Degree:	4 Semesters	8 Semesters
Postgraduate Diploma:	4 Semesters	8 Semesters
Postgraduate Certificate:	2 Semesters	8 Semesters

6. **Credits Per Semester:** Minimum 3 credits per semester and Maximum 24 credits per semester subject to Regulation 5.

7. Minimum Credits Required For Awards

Master's Degree:	39
Postgraduate Diploma:	24
Postgraduate Certificate:	12

Breakdown as follows:

	Core Taught Modules (Min)	Project	Electives/ Optional Modules
Master's Degree:	24 credits	9 credits	6 credits
Postgraduate Diploma:	21 credits		3 credits
Postgraduate Certificate:	12 credits		

8. Assessment

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

Each module will carry 100 marks and will be assessed as follows (unless otherwise specified):

Written examination of 2-hour duration and continuous assessment of **40%** of total marks.

Continuous assessment may be based on laboratory work, and/or assignments and **should include at least two (2) class tests/assignments per semester per module.**

An overall total of **40%** for combined assessment and written examination components would be required to pass the module, without minimum thresholds within the individual continuous assessment and written examination. All modules carry equal weight. The Project carries 9 credits.

Submission Deadlines for Dissertation

- First Draft: End of July of Final Year.
- Final Copy: Last working day of August of Final Year.

9. Plan of Study

Students are required to submit at the end of Semester 1 a Plan of Study for their whole Programme of Studies, indicating the list of elective modules and in which semester each of them will be taken.

The University reserves the right not to offer a given elective module if the critical number of students is not attained and/or for reasons of resource constraints.

10. Important Note

The rules as stipulated in this Programme Structure and Outline Syllabus will replace all other rules and regulations found in previous Programme Structures.

11. List Of Modules

Code	Module Name	Hrs/Wk L+P	Credits
<u>CORE MODULES</u>			
ENGG 6001	Foundation Statistics	3+0	3
MECH 6251	Total Quality Management	3+0	3
MECH 5203	Research Methods	3+0	3
MECH 6201	Quality Systems & Auditing	3+0	3
MECH 6252	Quality Engineering	3+0	3
MECH 6301	Quality Costing	3+0	3
MGT 6286	Performance Evaluation	3+0	3
MGT 5212	Human Resources and Quality Management	3+0	3
<u>PROJECT</u>			
ENGG 6000	Project	-	9
<u>ELECTIVES</u>			
ENGG 6410	Asset Management	3+0	3
MECH 6204	Occupational Health and Safety	3+0	3
ACT 5112	Project Economics and Finance	3+0	3
MECH 5103	Business Strategy and Operations	3+0	3
ENGG 6305	Procurement Management	3+0	3
CSE 6005	Management Information Systems	3+0	3
CIVE 6102	Environmental Management I	3+0	3
MGT 6002	Corporate Ethics & Governance	3+0	3
MECH 5205	Supply Chain Management	3+0	3

Students have to complete ALL core taught modules, the project work and ANY two (2) electives.

NOTE:

Each module will consist of 45 contact hours (this includes lectures, tutorials, seminars, workshops, external visits, etc.). The total contact (taught) hours of the Programme therefore will be 450 hours. The Project will involve an equivalent of 180 working hours including direct supervision by a member of academic staff and/or an external supervisor.

A minimum of 6 contact hours is scheduled per week (3 hours on weekdays and 3 hours on Saturday). However, candidates are expected to attend daily normally after 4.00 p.m., for intensive modules taught in a period of two/three weeks by visiting lecturers.

12. Programme Plan - MSc Total Quality Management And Performance Excellence

Level 1					
Semester 1			Semester 2		
Module	L+P	Credits	Module	L+P	Credits
Foundation Statistics - ENGG 6001	3+0	3	Research Methods - MECH 5203	3+0	3
Human Resources & Quality Management - MGT 5212	3+0	3	Quality Costing - MECH 6301	3+0	3
Performance Evaluation - MGT 6286	3+0	3	Elective 1	3+0	3

Level 2					
Semester 1			Semester 2		
Module	L+P	Credits	Module	L+P	Credits
Quality Engineering - MECH 6252	3+0	3	Quality Systems & Auditing - MECH 6201	3+0	3
Total Quality Management - MECH 6251	3+0	3	MSc Project - ENGG 6000	-	9
Elective 2	3+0	3			
MSc Project - ENGG 6000	-	-			

The Faculty reserves the right to offer any of the above modules in a Semester depending on the availability of resources.