MSc Project Management - E501

1. **Aim and Objectives**

   The aim of this Programme is to provide the private and public sectors with effective Project Leaders and Managers. Successful Project Managers will have demonstrated the ability to:
   
a) write project definitions, including its requirements, risks and specifications, identify possible problems, quality requirements and decision making criteria;
b) generate ideas in order to solve problems, seeking expert advice including information sourcing;
c) plan and control all project activities and resources; and

d) communicate and work effectively with people to a good professional standard.

2. **General Entry Requirements**

   Successful completion of an undergraduate degree with
   
   - at least a Second Class or 50%, whichever is applicable or
   - a GPA not less than 2.5 out of 4 or equivalent, from a recognised higher education institution.
   
   **OR** alternative qualifications acceptable to the University of Mauritius.

3. **Programme Requirements**

   Preference will be given to candidates having at least two years of 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).

<table>
<thead>
<tr>
<th></th>
<th>Normal</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master’s Degree:</td>
<td>4 Semesters</td>
<td>8 Semesters</td>
</tr>
<tr>
<td>Postgraduate Diploma:</td>
<td>4 Semesters</td>
<td>8 Semesters</td>
</tr>
</tbody>
</table>

6. **Credits per Semester:** Minimum 3 credits subject to Regulation 5.
7. **Minimum Credits Required for the Award of**

- Master’s Degree: 36
- Postgraduate Diploma: 24

Breakdown as follows:

<table>
<thead>
<tr>
<th></th>
<th>Core Taught Modules (Minimum)</th>
<th>Project</th>
<th>Electives/Optional Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master’s Degree:</td>
<td>18 credits</td>
<td>9 credits</td>
<td>9 credits</td>
</tr>
<tr>
<td>Postgraduate Diploma:</td>
<td>18 credits</td>
<td></td>
<td>6 credits</td>
</tr>
</tbody>
</table>

8. **Assessment**

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

- Written examination of 3-hour duration and continuous assessment of 10% to 30% of total marks.
- Continuous assessment can be based on laboratory work, assignments and/or 1 class test.

For a student to pass a module, a minimum of 30% should be attained in both of Continuous Assessment and Written Examination separately, with an overall total of a minimum of 40% in that module.

All modules carry equal weighting.

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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Name</th>
<th>Hrs/Wk L+P</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORE MODULES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGG 6101</td>
<td>Principles of Project Management</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>ACT 5112</td>
<td>Project Economics and Finance</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>CSE 6005</td>
<td>Management Information Systems</td>
<td>3+0</td>
<td>3</td>
</tr>
<tr>
<td>ENGG 6202</td>
<td>Research Methods</td>
<td>3+0</td>
<td>3</td>
</tr>
</tbody>
</table>
ENGG 6305  Procurement Management  3+0  3  
MGT 5212  Human Resources & Quality Management  3+0  3

**PROJECT**

ENGG 6000  Research Project  -  9

**ELECTIVES**

LAW 5401  Legal Aspects of Project Management  3+0  3  
MECH 6101  Managing Quality  3+0  3  
MECH 6306  Production and Operations Management  3+0  3  
ENGG 6410  Asset Management  3+0  3  
MECH 6409  Maintenance Management  3+0  3  
CIVE 6207  Construction Management  3+0  3  
MECH 6410  Energy Management  3+0  3  
CIVE 6402  Integrated Infrastructure Planning and Development  3+0  3  
ENGG 6411  Concession Projects  3+0  3

**SPECIALISED ELECTIVES**

MGT 5111  Marketing Management  3+0  3  
SCDV 5101  Perspectives on Social Development  3+0  3  
CIVE 6102  Environmental Management I  3+0  3  
CIVE 6105  Computer Organisation and System Software  3+0  3  
CSE 6006  Knowledge Based Systems & Expert Systems  3+0  3  
ELEC 6422  Communications Systems Management  3+0  3  
CSE 6209  Software Project Management  3+0  3  
CIVE 6403  Applications of GIS  3+0  3

12.  **Programme Plan - MSc Project Management**

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Semester 2</strong></td>
</tr>
<tr>
<td>Code</td>
<td>Module Name</td>
</tr>
<tr>
<td>ENGG 6101</td>
<td>Principles of Project Management</td>
</tr>
<tr>
<td>MGT 5212</td>
<td>Human Resources and Quality Management</td>
</tr>
<tr>
<td>CSE 6005</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>ENGG 6000</td>
<td>Research Project</td>
</tr>
</tbody>
</table>

ENGG 6305  Procurement Management  3+0  3
One Elective Module 3+0 3
Two Elective Modules 6

NOTE:
Only one General Education Module may be taken in lieu of any one of the 3 Elective Modules.

Each module will consist of 45 contact hours (this includes lectures, tutorials, seminars, workshops, external visits, etc.). The total contact (taught) hours of the course therefore will be 405 hours. The Research Project will involve 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 a weekday and 3 hours on Saturday). However, candidates are expected to attend on a daily basis, for a period of two weeks, normally after 4 p.m., those modules which are taught by visiting lecturers.

The Faculty reserves the right to change the order in which the modules are offered.

13. Outline Syllabus

ACT 5112 - PROJECT ECONOMICS AND FINANCE

CIVE 6102 - ENVIRONMENTAL MANAGEMENT 1
Concept of sustainable development; Environmental management tools; EIA; EMS; Environmental legislation; Environmental audits; Waste audits; Risk assessment; Case studies; Environmental problems in Mauritius; Economic Tools to encourage pollution control.

CIVE 6207 - CONSTRUCTION MANAGEMENT
Planning and Programming - Temporary works layout, Construction Methods and Sequence, Work breakdown structure - Estimating duration, CPA - Cost estimating, Monitoring and Control - The tender process, rate build up, system relationships - Alternative estimating models - Construction productivity measurement and improvement - Risk Management in Construction - Construction safety - Site layout, Site security.

CIVE 6402 - INTEGRATED INFRASTRUCTURE PLANNING AND DEVELOPMENT

CIVE 6403 - APPLICATIONS OF GIS

CSE 6005 - MANAGEMENT INFORMATION SYSTEMS
CSE 6006 - KNOWLEDGE BASED SYSTEMS & EXPERT SYSTEMS

CSE 6105 - COMPUTER ORGANISATION AND SYSTEM SOFTWARE

CSE 6209 - SOFTWARE PROJECT MANAGEMENT

ELEC 6422 - COMMUNICATIONS SYSTEMS MANAGEMENT

ENGG 6000 - PROJECT
The objectives:
1. to develop an ability to undertake research, analysis or design given an appropriate level of supervision;
2. to develop objectives and program of work;
3. to collect information, assess it and present it in an orderly and coherent form; and
4. to be able to work a document which presents clearly findings related to the study.

ENGG 6101 - PRINCIPLES OF PROJECT MANAGEMENT

ENGG 6202 - RESEARCH METHODS

ENGG 6305 - PROCUREMENT MANAGEMENT

ENGG 6410 - ASSET MANAGEMENT
Defining the position of asset management within the corporate business - Establishing an asset maintenance policy - Role of the asset manager - Selecting appropriate maintenance management strategies - Techniques for predicting and minimising operating costs - Choosing a suitable procurement option - Information management and feedback.
ENGG 6411 - CONCESSION PROJECTS

LAW 5401 - LEGAL ASPECTS OF PROJECT MANAGEMENT

MECH 6306 - PRODUCTION AND OPERATIONS MANAGEMENT

MECH 6409 - MAINTENANCE MANAGEMENT

MECH 6410 - ENERGY MANAGEMENT

MGT 5111 - MARKETING MANAGEMENT
The module introduces the foundation of marketing management and its key concepts: the Marketing Concept, Customer Satisfaction and Customer Value. Topics covered will include: evolution in Marketing Management philosophy; the marketing environment (Internal and External environment); the marketing research process; Consumer and Business buying behaviour; Market segmentation, positioning and targeting; The Marketing mix: product, price, promotion and distribution strategy of firms; Social Responsibility and green marketing.

MGT 5212 - HUMAN RESOURCES AND QUALITY MANAGEMENT
Commitment for Quality, Teamwork & Total Quality, Employee Involvement & Empowerment for Quality, Communication for Total Quality, Quality Training.

**SCDV 5101 - PERSPECTIVES ON SOCIAL DEVELOPMENT**