

MSc Climate Change Adaptation & Risk Reduction (P/T) – OS 504

1 Aim and Objectives

The aim of this programme is to train scientists, engineers and technicians towards adaptation measures to address impacts of climate change and associated disasters. The programme has been structured along two main components; climate change and its impacts and risk reductions. Small Island Developing states are constantly being faced by the growing impacts of climate change, and the need to adapt is now a necessity. Adaptation would involve an understanding of the problem, climate change impacts, and how these are threatening the welfare of communities and the economic development of the country. The programme is targeted at those involved in policies, as mainstreaming climate change in legislation and policies is an important aspect of adapting to climate change. The programme also targets planning officers who are concerned with planning tools and regulations to ensure that developments cater for community safety against disasters. The programme is also targeted at technical staff who will be responsible to review design criteria of infrastructures and protective measures to build resilience. Through a specialist thematic research project, students will be able to specialise in either climate change policies, climate change adaptation, climate change development techniques, disaster risk reduction, climate modelling, disaster management and society empowerment for preparedness and resilience.

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 and special cases with work experience may be considered.

3 Programme Requirements

An undergraduate degree in Science, Planning, Engineering or Equivalent. Applicants should be conversant in IT.

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 practicing professional qualification obtained by examination.

5 Programme Duration

The Programme is offered on a part-time (P/T) basis. The duration of the Postgraduate Programme should normally not exceed 4 years (8 semesters) for P/T.

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|-----------|--|----------------------|---------------------|
| | | Normal | Maximum |
| | Master's Degree (P/T): | 2 Years | 4 Years |
| | Postgraduate Diploma (P/T): | 2 Years | 4 Years |
| 6 | Credits per Semester: Minimum 3 credits subject to Regulation 5. | | |
| 7 | Exit Points | | |
| | A student whose registration is on the point of being terminated, as a result of having her/his CPA <40.0 for two consecutive registered semesters. | | |
| 8 | Minimum Credits Required for the Award of | | |
| | Master's Degree: | 36 | |
| | Postgraduate Diploma: | 24 | |
| | Postgraduate Certificate: | 12 | |
| | Breakdown as follows: | | |
| | Modules | Core Taught | Dissertation |
| | Master's Degree: | 21 credits | 9 credits |
| | Postgraduate Diploma: | 18 credits (minimum) | 3 credits |
| | Postgraduate Certificate: | 12 credits | |
| 9 | Assessment | | |
| | Each module will carry 100 marks and will be assessed as follows (unless otherwise specified): | | |
| | <p>•Written Exams All 3- credit Modules will be assessed by a 3 hr written exam paper. Continuous assessment of 30% to 40% of total marks. Continuous assessment can be based on laboratory work, and/or assignments and <u>should include at least one (1) assignment/test per module.</u></p> <p>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.</p> <p>All modules carry equal weighting.</p> <p>The Project carries 9 credits.</p> <p>Submission Deadlines for Dissertation:</p> <p>First Draft: End of July of Final Year. Final Copy: Last working day of August of Final Year.</p> | | |
| 10 | NOTE: | | |
| | Each module will consist of 45 contact hours (this includes lectures (L) and practicals (P) in the form of lab practicals or/and tutorials, seminars, etc.). The total contact (taught) hours of the course therefore will be 405 hours. The | | |

Research Project will be conducted under the direct supervision by a member of academic staff and/or an external supervisor.

When the programme is offered on a part time basis, 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 plan 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.

11 List of Modules
(L= Lectures; P=Practical)

| CORE MODULES | | Hrs/Wk L+P | Credits |
|---------------------|---|-----------------------|----------------|
| OET 6109 | Climate Change, Impacts & Adaptation | 2+2 | 3 |
| OET 6110 | Geographical Information Systems & Remote Sensing | 2+2 | 3 |
| OET 6111 | Environmental Legislation & Policy | 2+2 | 3 |
| OET 6206 | Climate Change & Infrastructure | 2+2 | 3 |
| OET 6207 | Climate Change & Risk Management | 2+2 | 3 |
| OET 6208 | Disaster Risk Reduction | 2+2 | 3 |
| OET 6005 | Research Methods | 2+2 | 3 |
| OET 6000 | Dissertation | - | 9 |

ELECTIVE MODULES

| | | | |
|-----------|-------------------------------------|-----|---|
| OET 6002 | Climate Modelling | 2+2 | 3 |
| OET 6006 | Integrated Coastal Zone Management | 2+2 | 3 |
| OET 6007 | Community Preparedness & Resilience | 2+2 | 3 |
| ENGG 6101 | Principles of Project Management | 3+0 | 3 |

And/or any new modules offered by the Department

NOTE: NOT ALL ELECTIVES MAY BE ON OFFER. The choice rests with the Department.

12 Programme Plan – MSc Climate Change Adaptation & Risk Reduction

(Part Time)

YEAR 1

| Semester 1 | | | | Semester 2 | | | |
|-------------------|---|-----------------------|----------------|-------------------|----------------------------------|-----------------------|----------------|
| Code | Module Name | Hrs/Wk L+P | Credits | Code | Module Name | Hrs/Wk L+P | Credits |
| OET 6109 | Climate Change, Impacts & Adaptation | 2+2 | 3 | OET 6206 | Climate Change & Infrastructure | 2+2 | 3 |
| OET 6110 | Geographical Information Systems & Remote Sensing | 2+2 | 3 | OET 6207 | Climate Change & Risk Management | 2+2 | 3 |
| OET 6111 | Environmental Legislation & Policy | 2+2 | 3 | OET 6208 | Disaster Risk Reduction | 2+2 | 3 |

YEAR 2

| | | Semester 1 | | | Semester 2 | | | | |
|--|---------------------|---------------|---------|---------------------|---------------------|---------------|---------|--|--|
| Code | Module Name | Hrs/Wk L+P | Credits | Code | Module Name | Hrs/Wk L+P | Credits | | |
| OET 6000 | Dissertation | - | - | OET 6000 | Dissertation | - | 9 | | |
| OET 6005 | Research Methods | 2+2 | 3 | | | | | | |
| | | | | | | | | | |
| One Elective | | 3+0 | 3 | One Elective | | 3+0 | 3 | | |
| <p>For the MSc Award, students have to complete ALL core modules, dissertation and ANY two (2) electives offered by the Department.</p> | | | | | | | | | |