UNIVERSITY of TECHNOLOGY, MAURITIUS

School of Sustainable Development & Tourism

MSc. Climate Change and Disaster Management (Full-time and Part-Time)

PROGRAMME DOCUMENT

VERSION 2.0
MCCDM v2.0
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MSc. Climate Change and Disaster Management

A. PROGRAMME INFORMATION

Climate change includes higher temperatures, changing precipitation and runoff patterns, and extreme weather conditions, leading to reported increasing incidences of weather-induced disasters including floods, droughts, wild fires, strong winds, heat and cold waves. Such climate change agents contribute to an increase in disaster risks, thus making disaster management a vital and urgent component of any climate change adaptation programme. As a Small Island Developing State, Mauritius has been ranked as the 13th country with the highest disaster risk and ranked 7th on the list of countries most exposed to natural hazards is highly vulnerable to the effects of climate change and its adverse impacts on socio-economic development.

This postgraduate course in Climate Change and Disaster Management, unique to the Mauritian landscape so far, will cumulate the dearth of tertiary level courses in this area of serious current concern for Mauritius, as part of small island developing state. The urgency of this course is being felt in the various sectors of the island including the police force, the fire services, the national coast guard division, social security, environment division, local government and other allied sectors to successfully adjust to changing environments and develop safe and sustainable societies.

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B. PROGRAMME AIM

This postgraduate course aims to offer students with multidisciplinary knowledge and skills required to underpin successful approaches to addressing the management of climate change and disasters. Providing an overview of the interconnections between health and human security in the context of globalization and forced migration from many causes. The programme is thus to provide students with theoretical, practical and innovative knowledge and competencies to deal with the dangers and risks of climate change. It will support the professional development of those already involved in disaster management by exposing them to the climatic challenges of the 21st century.

C. PROGRAMME OBJECTIVES

- To equip students with up-to-date knowledge regarding climatic changes affecting our planet
- To provide students with the skills and competencies required to mitigate, manage and adapt to such changing conditions
- To formulate innovative ways of dealing with climate change and disaster management and risk reduction
- To enable students and professionals to understand the management of disasters from a humanitarian and logistic point of view
- To provide knowhow about the importance of innovation in organisations in dealing with climate change
- To develop an in-depth appreciation of the science, policies and technologies linked to climate change, including the scientific basis underpinning international agreements on carbon reduction targets
- To contribute to research in this field
- To cover the clinical challenges associated with disasters or humanitarian crises.

Part I - REGULATIONS

D. GENERAL ENTRY REQUIREMENTS

As per UTM ‘Admissions Regulations’ and ‘Admission to Programmes of Study at Masters Level’.

E. PROGRAMME ENTRY REQUIREMENTS

None

F. PROGRAMME MODE AND DURATION

Full Time: 1½ years comprising of 3 semesters
Part Time: 2 years comprising of 4 semesters

Each academic year includes 2 semesters.

G. TEACHING AND LEARNING STRATEGIES

The programme consists of a wide variety of teaching methods, including face-to-face, blended or online lectures, individual or group projects, presentations, workshops, seminars and case studies.

Self-learning will be the key feature of the programme, enabling students to explore, investigate and research in various issues related to communication and public relations. Throughout, the emphasis will be on high levels of student participation, both individually and within small groups.

H. STUDENT SUPPORT AND GUIDANCE

In addition to traditional lectures, group tutorials or individual tutorials are arranged for students as and when required.

I. ATTENDANCE REQUIREMENT

As per UTM Regulations

J. CREDIT SYSTEM

This programme is aligned with the European Credit and Transfer System (ECTS):
Each module is equivalent to 6 credits and the Dissertation will carry 18 credits.

K. STUDENT PROGRESS AND ASSESSMENT

For the award of the Master degree all modules must be passed overall with passes in the examinations, coursework and other forms of assessment.

This course is comprised of 12 (twelve) modules including the final year dissertation. All modules will have equal weighting and the dissertation carries 18 (eighteen) credits. Six (6) modules are assessed by exams and six (6) modules including Research Methods will be assessed 100% by coursework as follows: project-based assignments including fieldwork and presentation.

Written examinations will be of a maximum of 3 hours' duration. Continuous assessment will carry up to 50% of the total marks and will be based on seminars, case studies, class tests and/or assignments.

L. EVALUATION OF PERFORMANCE

Masters of Science	90 credits (inclusive of dissertation)
Postgraduate Diploma	60 credits
Postgraduate Certificate	30 credits

Grading

Grade	Marks x (%)
A	$70 \leq x \leq 100$
B	$60 \leq x < 70$
C	$50 \leq x < 60$
D	$40 \leq x < 50$
F	< 40
A-D	Pass
F	Fail

M. AWARD CLASSIFICATION

Overall weighted mark (%)	Classification
CPA ≥ 70	Master of Science with Distinction
60 ≤ CPA < 70	Master of Science with Merit
40 ≤ CPA < 60	Master of Science
CPA < 40	No Award

N. PROGRAMME ORGANISATION AND MANAGEMENT

Programme Development Committee:

Ms P. Naidoo – pnaidoo@umail.utm.ac.mu; Dr P. Ramseook-Munhurrun – pmunhurrun@umail.utm.ac.mu; Ms V.N. Seebaluck – vseebaluck@umail.utm.ac.mu; Mrs T. Makoondlall-Chadee – t.m.chadee@umail.utm.ac.mu ; Assoc Prof (Dr) C. Bokhoree – sbokhoree@umail.utm.ac.mu, ; Dr S.D. Lukea-Bhiwajee – sbhiwajee@umail.utm.ac.mu ; and Dr P. Ramasamy Coolen -vrcoolen@umail.utm.ac.mu

O. Part II - PROGRAMME STRUCTURE AND SYLLABUS OUTLINE - FULL-TIME

YEAR 1

Semester 1

Code	Core Modules	Hrs L + SL	Credits
ENVT 5801B	Global Climate Change and Governance	3+7	6
SSDV 5105B	Demography, The Environment, and Challenges of Sustainability	3+7	6
ENVT 5114B	Natural Resource Management	3+7	6
OPS 5701B	Disaster and Risk Reduction	3+7	6
STAT 5301B	Research Methods	3+7	6

Semester 2

Code	Core Modules	Hrs L + SL	Credits
ENVT 5802B	Climate Change: Mitigation and Adaptation	3+7	6
ENVT 5702B	Local and Global Health Disaster Management	3+7	6
UPLN 5301B	Risk Based Land Use Planning	3+7	6
OPS 5209B	Sustainable Project Management	3+7	6
DISS 5000	Dissertation*		

Semester 1

YEAR 2

Code	Core Modules	Hrs L + SL	Credits
SSDV 5603B	Risk Perception, Communication, and Human Behaviours	3+7	6
ENVT 5803B	Smart Climate and Disaster Response Technologies	3+7	6
SSDV 5604B	Humanitarian Logistics and Social Resilience	3+7	6
DISS 5000	Dissertation*		18

*Dissertation starts in Semester 1 of Year 1. Credits earned at the end of Semester 1 of Year 2

Total number of credits: 90

P. PROGRAMME STRUCTURE AND PLAN - PART- TIME

YEAR 1

Semester 1

Code	Core Modules	Hrs/Wk L + SL	Credits
ENVT 5801B	Global Climate Change and Governance	3 +7	6
SSDV 5105B	Demography, The Environment, and Challenges of Sustainability	3 +7	6
ENVT 5114B	Natural Resources Management	3 +7	6
OPS 5701B	Disaster and Risk Reduction		6

Semester 2

Code	Core Modules	Hrs/Wk L + SL	Credits
STAT 5301B	Research Methods	3 +7	6
ENVT 5802B	Climate Change: Mitigation and Adaptation	3 +7	6
ENVT 5702B	Local and Global Health Disaster Management	3 +7	6

YEAR 2

Semester 1

Code	Core Modules	Hrs/Wk L + T + P	Credits
UPLN 5301B	Risk Based Land Use Planning	3 +7	6
OPS 5209B	Sustainable Project Management	3 +7	6
SSDV 5603B	Risk Perception, Communication, and Human Behaviours	3 +7	6
	Dissertation*		

Semester 2

Code	Core Modules	Hrs/Wk L + T + P	Credits
ENVT 5803B	Smart Climate and Disaster Response Technologies	3 +7	6
SSDV 5604B	Humanitarian Logistics and Social Resilience	3 +7	6
DISS 5000	Dissertation*		18

*Dissertation starts in Semester 1 of Year 1. Credits earned at the end of Semester 1 of Year 2

Total number of credits: 90