

MSc Coastal Engineering (P/T and FT) – OS500

1 Aim and Objectives

The aim of this Programme is to cater for the training needs required to ensure protection and management of the coastlines. The course covers the theory of waves, tides and surges along with coastal data collection, project management skills and environmental law. Emphasis is also placed on research in the field of coastal protection and adaptation with focus on design of coastal structures. The course is geared towards research and development with modules on entrepreneurship to encourage students towards business opportunities. This course will support the national project on Climate Change Adaptation in the Coastal zone of Mauritius, in addressing the needs for expertise in Coastal Engineering.

The flexible MSc Coastal Engineering programme adopts a blended learning approach comprising core and elective modules that can be studied full-time or part time. Course modules are delivered with a mix of traditional face-to-face lectures and online study options to allow maximum flexibility to learners especially those already in service.

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

An undergraduate degree in Engineering. Applicants should be conversant in IT and in Science subjects such as (Physics & Mathematics).

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 either on a full-time (F/T) or a part-time (P/T) basis. The duration of the Postgraduate Programme should normally not exceed 2 years (4 semesters) for F/T and 4 years (8 semesters) for P/T.

		Normal	Maximum
	Master's Degree (F/T):	1 Year	2 Years
	Postgraduate Diploma (F/T):	1 Year	2 Years
	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	Minimum Credits Required for the Award of		
	Master's Degree:	36	
	Postgraduate Diploma:	24	
	Postgraduate Certificate:	12	
	Breakdown as follows:		
	Modules		
	Master's Degree:		
	Postgraduate Diploma:		
	Postgraduate Certificate:		
8	Assessment		
	Each module will carry 100 marks and will be assessed as follows (unless otherwise specified):		
	<ul style="list-style-type: none"> Written Exams 		
	All 3- credit Modules will be assessed by a <u>2 hr written exam paper</u>		
	All 6-credit Modules will be assessed by a <u>3 hr written exam paper</u>		
	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>		
	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 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.		

Research Seminar

This includes mini-projects, oriented-discussion, coached group-work, presentations and other structured activities associated to enhancing the communication skills, interpersonal skills, teamwork, the professional and personal attributes of the students. Research seminars will be included in modules in which assignments form part of the coursework.

10 NOTE:

Each module will consist of 45 contact hours (this includes lectures (L) and practicals (P) in the form of tutorials, seminars, workshops, external visits, etc.). The total contact (taught) hours of the course therefore will be 405 hours. The Research Project will involve 135 working hours including 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 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 6101	Fundamentals of Coastal Engineering	2+2	3
OET 6102	Wave Hydrodynamics & Ocean Data Analysis	2+2	3
OET 6103	Coastal Planning	2+2	3
OET 6005	Research Methods	2+2	3
OET 6201	Design of Coastal Structures	2+2	3
OET 6202	Disaster Risk Management in the Coastal Zone	2+2	3
OET 6203	Cost Benefit Analysis of Coastal Adaptation Measures	2+2	3
OET 6000	Research Project	-	9
ELECTIVE MODULES			
OET 6001	Entrepreneurship and SME Management	3+0	3
OET 6002	Remote Sensing & Geographical Information Systems	2+2	3
OET 6003	Creativity, Innovation and Entrepreneurship	3+0	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 Coastal Engineering (Full Time)						
YEAR 1							
	Semester 1				Semester 2		
Code	Module Name	Hrs/Wk L+P	Credits	Code	Module Name	Hrs/Wk L+P	Credits
OET 6101	Fundamentals of Coastal Engineering	2+2	3	OET 6201	Design of Coastal Structures	2+2	3
OET 6102	Wave Hydrodynamics & Ocean Data Analysis	2+2	3	OET 6202	Disaster Risk Management in the Coastal Zone	2+2	3
OET 6103	Coastal Planning	2+2	3	OET 6203	Cost Benefit Analysis of Coastal Adaptation Measures	2+2	3
OET 6005	Research Methods	2+2	3	OET 6000	Research Project	-	9
OET 6000	Research Project	-	-				
One Elective			3	One Elective			3
(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 6101	Fundamentals of Coastal Engineering	2+2	3	OET 6201	Design of Coastal Structures	2+2	3
OET 6102	Wave Hydrodynamics & Ocean Data Analysis	2+2	3	OET 6202	Disaster Risk Management	2+2	3
OET 6103	Coastal Planning	2+2	3	OET 6005	Research Methods	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	Research Project	-	-	OET 6000	Research Project	-	9
OET 6203	Cost Benefit Analysis of Coastal Adaptation Measures	2+2	3				
One Elective			3	One Elective			3
<p>For the MSc Award, students have to complete ALL core modules, research project and ANY two (2) electives offered by the Department.</p>							