

## Academic Year 2022/23

### Master of Research in Environmental Geoscience

Code: 4867F

#### Notes

- (i) *These programme regulations should be read in conjunction with the University's Research Masters Degree Regulations.*
- (ii) *A core module is a module which a student must pass and in which a fail mark may not be compensated; such modules are designated by the board of studies as essential.*
- (iii) *A compulsory module is a module which a student must take.*
- (iv) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (v) *Not all modules may be offered in all years and they are listed subject to availability.*
- (vi) *As a Research Masters degree, this programme reflects specific research themes and aims incorporating research preparation. The programme comprises at least 180 credits of which at least 80 credits will be dedicated to the research project/dissertation.*

#### 1. Programme Structure

- (a) The MRes in Environmental Geoscience is available for study in full-time mode only.
- (b) The period of study for full-time mode shall be 1 year starting in September.
- (c) The programme comprises modules to a credit value of 180.
- (d) All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Type	Mode
GEO8020	Research Dissertation in Environmental Geoscience	120	30	40	50	7	Core	
GEO8026	Data Analysis for Geoscience	20	20	0	0	7	Core	Block

- (e) All candidates shall take further optional modules to a value of **40** credits from the following list of which at least 10 credits must be taken in Semester 1:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Type	Mode
ACE8016	Habitat Monitoring and Assessment	20		20		7		Block
ACE8041	Ecosystem Management	10		10		7		Block
ACE8116	Forest Ecology	20	20			7		Block
ARA8234	Landscape Archaeology: Theory and Practice	20		20		7		

BIO8063	Invasive Species	10		10		7		Block
BIO8066	Policy and Licensing	10		10		7		Block
BIO8072	Dynamics of Coupled Human-Natural Systems	20	20			7		Block
CEG8107	Environmental Engineering for the Global South	10		10		7		Block
CEG8112	Air Pollution	10	10			7		Block
CEG8501	Quantitative Methods for Engineering	10	10			7		Block
CEG8511	Ground Water Assessment	10		10		7		Block
CEG8512	Integrated River Basin Management	10		10		7		Block
CEG8514	Climate Change: Vulnerability, Impacts and Adaptation	10		10		7		Block
CEG8516	Groundwater Modelling	10		10		7		Block
CEG8524	Water Management: Issues and Challenges	10	10			7		Block
CEG8525	Hydro systems processes and data analysis	20	20			7		Block
CEG8526	Hydro systems modelling & management	20	20			7		Block
CEG8604	Introduction to Microbiology and Microbial Transformation of Pollutants	10	10			7		Block
CEG8605	Aqueous Geochemistry	10	10			7		Block
CEG8606	Sources, Fates and Control of Pollutants	10		10		7		Block
CEG8608	Remediating Contaminated Land	10		10		7		Block
CEG8641	Environmental Inorganic Analysis	10	10			7		Block
CEG8642	Environmental Organic Matter	10		10		7		Block
CEG8704	Theory and Application in Geographic Information Systems	10		10		7		
CEG8705	Geographic Information Systems	10		10		7		Block
CEG8709	Introduction to Surveying for Town Planning	10	10			7		
CME8012	Business and Environmental Management	10		10		7		Block
CSC8631	Data Management and Exploratory Data Analysis	10	10			7		Block
EEE8098	Image Processing and Computer Vision	20		20		7		Block

EEE8121	Internet of Things and Wireless Sensor Networks (Coursework)	20	20			7		Block
MST2203	Oceans and Climate I	20	20			5		
NES8010	Quantitative Ecological Research Methods	20	20			7		Block
SPG8013	Environmental Impact Assessment	10		10		7		Block

With the approval of the Degree Programme Director and depending upon the academic background of the candidate, alternative optional modules to those listed above may be selected.

## 2. Assessment methods

Details of the assessment pattern for each module are explained in the module outline.

## 3. Other

Candidates must pass the research dissertation proposal to proceed with the programme.

## 4. Exemption

Candidates on this programme are exempt from the research Master's Degree Programme Regulations and can take up to 80 credits in a semester.