Academic Year 2023/24

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 module 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			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*
ARA8295	From Data to Knowledge: Introduction to Digital Humanities	20	20					
ARA8391	Archaeology under the microscope – an introduction to sediment micromorphology	20		20		7		

CEG8107	Environmental Engineering in Low and Middle Income Countries	10		10		7		Block
CEG8112	Air Pollution	10	10			7		Block
CEG8501	Quantitative Methods for Engineering	10	10			7		Block
CEG8512	Integrated River Basin Management	10		10		7		Block
CEG8514	Climate Change: Vulnerability, Impacts and Adaptation	10		10		7		Block
CEG8523	Modelling and Forecasting of Floods	10		10		7		Block
CEG8524	Water Management: Issues and Challenges	10	10			7		Block
CEG8525	Hydrosystems Processes and Data Analysis	20	20			7		Block
CEG8526	Hydrosystems Modelling and Management	20	20			7		Block
CEG8527	Fundamentals of Conceptual and Numeric Ground Water Modelling	10		10		7		Block
CEG8704	Theory and Application in Geographic Information Systems	10		10		7		
CEG8705	Geographic Information Systems (GIS)	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
EEE8121	Internet of Things and Wireless Sensor Networks (Coursework)	20	20			7		Block
GEO8021	Cold Environments	10		10				Block
GEO8025	Environmental Geophysics	10		10				Block
NES2503	Oceans and Climates I	20	20			5		
NES8010	Quantitative Ecological Research Methods	20	20			7		Block
NES8100	Habitat Monitoring and Assessment	20		20		7		Block
NES8101	Ecosystem Management	10		10		7		Block
NES8104	Forest Ecology	20	20			7		Block
NES8308	Invasive Species	10		10		7		Block
NES8310	Policy and Licensing	10		10		7		Block
NES8312	Geographical Information systems and Remote Sensing	20		20		7		Block

NES8313	Dynamics of Coupled Human-Natural Systems	20	20			7		Block
SCX8000	Facing up to Climate Change: Tackling Climate Change through solution focused multi-disciplinary collaboration	20	10	10		7		
SPG8008	Renewable Energy: Biomass and Bioenergy	10		10		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.