Programme Regulations: 2024/25

Programme Title:
Degree of Master of Science in Geotechnical and Geological Engineering - Code: 5041F/P

Notes

(i) These programme regulations should be read in conjunction with the University's Taught Programme Regulations.

(ii) A compulsory module is a module which a student is required to study.

(iii) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.

(iv) All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.

1. Programme Structure

(a) The programme is available for study in both full-time and part-time modes.

(b) The period of study for full-time mode shall be 1 year starting in September. The period of study for part-time mode shall be 2 years 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*
CEG8201	Geomechanics	10	10			7		Block
CEG8202	Ground Investigation - Design, Principles and Practice	10	10			7		Block
CEG8204	Ground Improvement Techniques	10		10		7		Block
CEG8207	Engineering Geology Field Skills	10		10		7		Block
CEG8212	Assessment of slope stability; design of slopes and retaining structures	20	20			7		Block
CEG8213	Applied Rock Engineering	20	20			7		Block
CEG8217	Ground Engineering Practice and Professional Skills	10		10		7		Block
CEG8220	Data-centric Ground Engineering	10		10		7		Block

(e) All candidates taking the Engineering Geology stream will take:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Credits Sem 3*	*Level*	*Type*	*Mode*
CEG8514	Climate Change: Vulnerability, Impacts and Adaptation	10		10		7		Block
CEG8527	Fundamentals of Conceptual and Numeric Ground Water Modelling	10		10		7		Block
CEG8297	MSc Project and Dissertation in Engineering Geology	60	3	3	54	7		

(a) All candidates taking the Geotechnical Engineering stream will take:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Credits Sem 3*	*Level*	*Type*	*Mode*
CEG8205	Soil Modelling and Numerical Methods	10		10		7		Block
CEG8218	Foundation Design	10		10		7		Block
CEG8296	MSc Project and Dissertation in Geotechnical Engineering	60	3	3	54	7		

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. If a candidate is a graduate of Newcastle University they are not permitted to take any module which has already been taken as part of another programme. In such a case the Degree Programme Director shall substitute appropriate modules.

2. Assessment methods

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

For the purpose of professional accreditation, the University's Education Committee has approved a variation to the Taught Programme Regulations to the effect that a candidate who passes all core modules and fails up to 20 credits of non-core modules is recommended, as of right, for the award of an appropriate Master's degree or Postgraduate Diploma, provided that no mark is below 40 and the weighted average mark for all modules and all non-modular aggregated assessment is at least 50.