

# FACULTY OF ENGINEERING

## DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

### HYDROGEOLOGY

**Master of Science in Hydrogeology**  
**Postgraduate Diploma in Hydrogeology**  
**Postgraduate Certificate in Hydrogeology**

*These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).*

#### Admission

1. Notwithstanding the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#), applicants shall:
  - i. possess a degree (or in the case of direct entry to the degree of MSc, a first or upper second class Honours degree) from a United Kingdom university (in an appropriate discipline); or
  - ii. a qualification deemed by the Programme Leader acting on behalf of Senate to be equivalent to i. above.
2. In all cases, applicants whose first language is not English, shall be required to demonstrate an appropriate level of competence.

#### Duration of Study

3. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

#### Mode of Study

4. The programmes are available full-time and part-time flexibly via on campus study or off campus (Online).

#### Curriculum

5. All students shall undertake an approved curriculum as follows:
  - i. for the Postgraduate Certificate no fewer than 60 credits
  - ii. for the Postgraduate Diploma no fewer than 120 credits
  - iii. for the degree of MSc no fewer than 180 credits including a dissertation

#### Compulsory Modules

| Module Code | Module Title   | Level | Credits |
|-------------|--|-------|---------|
| Either      |  |       |         |
| CL906       | Site Investigation and Risk Assessment                       | 5     | 10      |
| Or          |  |       |         |
| CL949       | Site Investigation and Risk Assessment                       | 5     | 10      |
| Either      |  |       |         |
| CL804       | Research Methods for Quantitative and Qualitative Approaches | 5     | 10      |

| Or                             |  |   |    |
|--------------------------------|--|---|----|
| CL997                          | Research Methods for Quantitative and Qualitative Approaches | 5 | 10 |
| CL935                          | Hydrogeology   | 5 | 10 |
| CL946                          | Global Water Policy  | 5 | 10 |
| CL952                          | Aquifer Mechanics  | 5 | 10 |
| CL951                          | Groundwater Flow Modelling                                   | 5 | 10 |
| CL954                          | Contaminated Land  | 5 | 10 |
| CL805                          | Environmental Geochemistry                                   | 5 | 10 |
| Students for the degree of MSc |  |   |    |
| CL980                          | Project  | 5 | 60 |

### **Optional Modules**

No fewer than 40 credits chosen from:

| Module Code | Module Title                                     | Level | Credits |
|-------------|--|-------|---------|
| CL904       | Waste Management and Landfill Design             | 5     | 10      |
| CL948       | Principles of Environmental Microbiology         | 5     | 10      |
| CL960       | Fundamentals of Environmental Forensics          | 5     | 10      |
| CL961       | Geographical Information Systems (GIS)           | 5     | 10      |
| CL973       | Independent Study in Collaboration with Industry | 5     | 10      |
| CL987       | Engineering Hydrology                            | 5     | 10      |
| CL989       | Isotope Hydrology                                | 5     | 10      |
| EV921       | Water and Environmental Management               | 5     | 10      |
| Either      |  |       |         |
| EV939       | Environmental Impact Assessment                  | 5     | 10      |
| Or          |  |       |         |
| CL941       | Best practice in environmental impact assessment | 5     | 10      |

Exceptionally, such other Level 5 modules totalling no more than 20 credits, as approved by the Programme Leader.

Not all optional modules on this list will be available in each academic year.

### **Examination, Progress and Final Assessment**

6. See [General Academic Regulations - Postgraduate Taught Degree Programme Level.](#)

7. The final award will be based on performance in the examinations, coursework and, the Dissertation where undertaken.

#### **Award**

8. **Degree of MSc:** In order to qualify for the degree of MSc in Hydrogeology a candidate must have accumulated no fewer than 180 credits from the programme curriculum and a 60 credits dissertation CL980.
9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Hydrogeology a candidate must have accumulated no fewer than 120 credits from the taught modules of the programme curriculum.
10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Hydrogeology a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme curriculum.