



# MGeol Geological Hazards

## *Programme Specification*

### **Primary Purpose**

Course management and quality assurance.

### **Secondary Purpose**

Detailed information for students, staff and employers. Current students should refer to the related Course Handbook for further detail.

### **Disclaimer**

The University of Portsmouth has checked the information given in this Programme Specification. We will endeavour to deliver the course in keeping with this Programme Specification; however, changes may sometimes be required arising from annual monitoring, student feedback, review and update of units and courses. Where this activity leads to significant changes to units and courses, there will be prior consultation of students and others, wherever possible, and the University will take all reasonable steps to minimize disruption to students. It is also possible that the University may not be able to offer a unit or course for reasons outside of its control, for example; the absence of a member of staff or low student registration numbers. Where this is the case, the University will endeavour to inform applicants and students as soon as possible. Where appropriate, the University will facilitate the transfer of affected students to another suitable course.

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## **Course Details**

### **1. Named Awards**

MGeol Geological Hazards

### **2. Course Code (and UCAS Code if applicable)**

C2597F (F611)

### **3. Awarding Body**

University of Portsmouth

### **4. Teaching Institution**

University of Portsmouth

### **5. Accrediting Body**

Geological Society of London

### **6. QAA Benchmark Groups**

Earth Sciences, Environmental Sciences and Environmental Studies

### **7. Document Control Information**

July 2018

### **8. Effective Session**

2018/2019

### **9. Author**

Dr Carmen Solana

### **10. Faculty**

Science

### **11. Department**

School of Earth and Environmental Sciences

## **Curriculum**

### **12. Educational Aims**

The course aims to equip students to work as applied geoscientists or within relevant alternative employment.

- To train scientists to have a sound knowledge and understanding of the nature of geological hazards.
- To develop an awareness of the particular strategies needed to work in the field of geological hazards.

- To train students of geological hazards with a specialist knowledge of specific aspects of applied geosciences, such as geomechanics, volcanology, seismology, landslide and slope instability assessment, disaster management and communication, computer-based techniques for hazard and risk assessment such as risk analysis, GIS and remote sensing.

In addition, and more generally, the course aims to:

- Provide a stimulating, wide ranging yet integrated programme in the applied geosciences.
- Develop critical, analytical, practical, professional, research and communication skills and prepare students for postgraduate study and / or professional qualifications.
- Develop the skills necessary for life-long independent learning and acquisition of knowledge
- Provide a challenging, stimulating and self-rewarding study environment.
- Develop a range of key skills by opportunities provided in the study units.
- Maximise student career potential by enabling them to develop knowledge, understanding and skills in their chosen subject area.

This course would be of interest to any students currently studying science subjects who have a vocational interest in understanding the relationship between earth systems, man's interaction with these systems and the management of geological hazards. Excellent employment possibilities in the UK and overseas make this pathway highly attractive to science students.

### 13. Reference Points

**Programme Philosophy:** The Geological Hazards programme is one of three degree courses in the Applied Geosciences. The programme is designed specifically to deal with an increasing awareness of the impact of a wide range of geological processes on society and its infrastructure. This is achieved by offering a sound education in the scientific study and analysis of geological hazards, backed-up with a good awareness of current issues and concerns in the applied geosciences. The programme is intended to provide a professionally accredited education that will help students find good quality employment on graduation, and provide the basis for a lifetime of learning.

**Programme Rationale:** The programme was designed at a point where there was increased awareness and concern about a wide range of geological hazards in the earth science community but there was virtually no undergraduate teaching provision in this area. It remains the only programme that combines detailed study of a broad range of geological hazards underpinned by a sound training in the applied geosciences.

**Benchmark Statement and Other Reference Elements:** The major reference points are:

- University of Portsmouth Curriculum Framework Document (2016)
- The scholarship, research and practical expertise of academic members of staff
- QAA Code of Practice for the Assurance of Academic Quality and Standards in Higher Education
- Framework for Higher Education Qualifications (FHEQ)
- National Qualifications Framework
- Accreditation requirements of the Geological Society of London
- Subject Benchmark Statements: Earth Sciences, Environmental Sciences and Environmental Studies (indicated [B] below).

### 14. General Learning Outcomes

#### Level 4

Certificates of Higher Education are awarded to students who have demonstrated:

- knowledge of the underlying concepts and principles associated with their area(s) of study, and an ability to evaluate and interpret these within the context of that area of study
- an ability to present, evaluate and interpret qualitative and quantitative data, in order to develop lines of argument and make sound judgements in accordance with basic theories and concepts of their subject(s) of study

Typically, holders of the qualification will be able to:

- evaluate the appropriateness of different approaches to solving problems related to their area(s) of study and/or work
- communicate the results of their study/work accurately and reliably, and with structured and coherent arguments
- undertake further training and develop new skills within a structured and managed environment

And holders will have:

- the qualities and transferable skills necessary for employment requiring the exercise of some personal responsibility

#### Level 5

Diplomas in Higher Education are awarded to students who have demonstrated:

- knowledge and critical understanding of the well-established principles of their area(s) of study, and of the way in which those principles have developed
- ability to apply underlying concepts and principles outside the context in which they were first studied, including, where appropriate, the application of those principles in an employment context
- knowledge of the main methods of enquiry in the subject(s) relevant to the named award, and ability to evaluate critically the appropriateness of different approaches to solving problems in the field of study
- an understanding of the limits of their knowledge, and how this influences analyses and interpretations based on that knowledge

Typically, holders of the qualification will be able to:

- use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis
- effectively communicate information, arguments and analysis in a variety of forms to specialist and non-specialist audiences, and deploy key techniques of the discipline effectively
- undertake further training, develop existing skills and acquire new competences that will enable them to assume significant responsibility within organisations

And holders will have:

- the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and decision-making

#### Level 6

Bachelors degrees/Bachelors degrees with honours are awarded to students who have demonstrated:

- a systematic understanding of key aspects of their field of study, including acquisition of coherent and detailed knowledge, at least some of which is at, or informed by, the forefront of defined aspects of a discipline
- an ability to deploy accurately established techniques of analysis and enquiry within a discipline
- conceptual understanding that enables the student:
  - to devise and sustain arguments, and/or to solve problems, using ideas and techniques, some of which are at the forefront of a discipline
  - to describe and comment upon particular aspects of current research, or equivalent advanced scholarship, in the discipline
- an appreciation of the uncertainty, ambiguity and limits of knowledge
- the ability to manage their own learning, and to make use of scholarly reviews and primary sources (for example, refereed research articles and/or original materials appropriate to the discipline)

Typically, holders of the qualification will be able to:

- apply the methods and techniques that they have learned to review, consolidate, extend and apply their knowledge and understanding, and to initiate and carry out projects
- critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), to make judgements, and to frame appropriate questions to achieve a solution - or identify a range of solutions - to a problem
- communicate information, ideas, problems and solutions to both specialist and non-specialist audiences

And holders will have:

- the qualities and transferable skills necessary for employment requiring:
  - the exercise of initiative and personal responsibility
  - decision-making in complex and unpredictable contexts
- the learning ability needed to undertake appropriate further training of a professional or equivalent nature

### Level 7

Integrated Master's degrees are awarded to students who have demonstrated:

- a systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of study or area of professional practice
- a comprehensive understanding of techniques applicable to their own research or advanced scholarship
- originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline
- conceptual understanding that enables the student:
  - to evaluate critically current research and advanced scholarship in the discipline
  - to evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses

Typically, holders of the qualification will be able to:

- deal with complex issues both systematically and creatively, make sound judgements in the absence of complete data, and communicate their conclusions clearly to specialist and non-specialist audiences
- demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level
- continue to advance their knowledge and understanding, and to develop new skills to a high level

And holders will have:

- the qualities and transferable skills necessary for employment requiring:
  - the exercise of initiative and personal responsibility
  - decision-making in complex and unpredictable situations
- the independent learning ability required for continuing professional development

## **15. Learning Outcomes**

Programme learning outcomes derived directly from the SBS and are denoted by the abbreviation [B] after the learning outcome.

### **A. Knowledge and Understanding of:**

- A.1 The evolution, structure and composition of the Earth. [B]
- A.2 The nature of Earth materials: minerals and rocks, including the mechanical behaviour of natural materials. [B]

- A.3 Methods of geological data acquisition and analysis. [B]
- A.4 The principles of stratigraphy and the relationships between rock bodies. [B]
- A.5 The complexity and cycling of energy, water and materials in Earth systems. [B]
- A.6 The processes that control the evolution of the Earth's crust at different temporal and spatial scales and their relationship to human activities [B]
- A.7 The numerical assessment of geological hazard and risk and the communication of this hazard and risk to a 3rd party [B]
- A.8 Research methods related to the understanding of geological hazard processes [B]
- A.9 Current topical research problems in specialised fields of geological hazards [B].
- A.10 Advanced research and analytical techniques [B].

**B. Cognitive (Intellectual or Thinking) Skills, able to:**

- B.1 Plan, conduct and report on a programme of original research at undergraduate level including the formulation and testing of hypotheses. [B]
- B.2 Select and apply appropriate scientific, laboratory, mathematical and computer-based methods and principles in the analysis and solution of problems related to geological hazard processes.
- B.3 Be creative and innovative in the analysis and solution of problems in the applied Geosciences.
- B.4 Work with confidence from basic principles and apply essential applied Geoscience techniques to unfamiliar situations.
- B.5 Estimate and scope the scale of common geological hazards and their potential consequences.
- B.6 Integrate and evaluate relevant information from a variety of sources and recognise legal, moral, ethical and other social issues. [B]
- B.7 Contribute to topical debate on environmental issues relating to geological hazards and use specialist knowledge to propagate informed views. [B]
- B.8 Critically evaluate current research and advanced scholarship in a specialised field.
- B.9 Evaluate research methodologies and, where appropriate, to develop new hypotheses.

**C. Practical (Professional or Subject) Skills, able to:**

- C.1 Plan, conduct and report on geological hazard investigations, including the use of secondary data. [B]
- C.2 Collect record and analyse data using appropriate techniques in the field and laboratory. [B]
- C.3 Undertake field and laboratory investigations in a responsible and safe manner, paying due attention to risk assessment, rights of access, relevant health and safety regulations, and sensitivity to the impact of investigations on the environment and stakeholders. [B]
- C.4 Reference work in an appropriate manner. [B]
- C.5 Identify and work towards targets for personal, academic and career development. [B]
- C.6 Develop an adaptable and flexible approach to study and work. [B]
- C.7 Develop the skills necessary for self-managed and lifelong learning. [B]
- C.8 Demonstrate self-direction and the ability to operate complex analytical equipment independently following appropriate training, and to tackle and solve problems as they arise
- C.9 Act autonomously in planning and implementing analytical tasks at an advanced research level

#### **D. Transferable (Graduate and Employability) Skills, able to:**

- D.1 Communicate appropriately to a variety of audiences in written, verbal and visual forms, using information from a variety of sources. [B]
- D.2 Appreciate issues of sample selection, accuracy, precision and uncertainty during collection, recording and analysis of data in the field and laboratory. [B]
- D.3 Use the Internet critically as a means of communication and a source of information. [B]
- D.4 Identify individual and collective goals and responsibilities and perform in a manner appropriate to these roles. [B]
- D.5 Recognise and respect the views of others and evaluate performance as an individual and a team member. [B]
- D.6 Solve numerical problems using both computer and non-computer based techniques. [B]
- D.7 Continue to advance their knowledge and understanding and to develop new skills at an advanced level.

#### **16. Learning and Teaching Strategies and Methods**

Subject knowledge and understanding is delivered via lectures, practical classes and tutorials and fieldwork (A1-A7). Student-centred activities focus on practical classes, tutorials and fieldwork (A3-A6 and especially A7) with computer-based practical classes forming a significant component. All level 4, 5, and 6 students complete geological mapping training exercises (A7) and conduct an independent, field based project (A3-A7). During level 7, the literature review and exposure to a range of research techniques and methods will allow the student to demonstrate LO A8-A10.

Cognitive skills are embedded throughout the programme. The levels 6 and 7 projects develop skills in formulating and testing hypotheses, and conducting a programme of research (B1-B2). Lectures, seminars, tutorials and practical classes encourage the integration and analysis of data (B3-B5). Student-centred activities such as literature reviews, case studies and the levels 6 and 7 projects encourage research, analysis and synthesis (B1-B5). The level 7 project and literature review enable students to demonstrate critical evaluation of current research and methodologies at an advanced level (B6-B7).

Practical skills are developed in practical classes, and via projects and portfolios, literature reviews, case studies, and assignments (C1-C6). The recognition and acquisition of professional skills are embedded in many units, such as the level 5 unit Professional Skills for Applied Geoscientists. The level 7 unit Research Methodology and Technical Training enables students to develop and demonstrate practical skills at an advanced level (C7-C9).

Transferable skills are developed in lectures, practical/IT classes, worked examples, subject specific and generic tutorials, group oral presentations, assignments (including literature reviews, case studies and projects) (D1-D6). During level 7, the project, the literature review and exposure to a range of research techniques and methods will allow the student to demonstrate LO D7.

#### **17. Assessment Strategy**

Level 4: Although all students on this degree pathway will have had a science based education, the A-level profile can be quite diverse. The main aim of Level 4 is to introduce the student cohort to the subject of Earth Science and consolidate the key science and maths skills that will be required in Levels 5, and 6. The assessment approaches reflect this aim and therefore the core units include short closed exams, in-class tests, small focussed laboratory reports or portfolios and poster presentations. These have been selected so as to enable students to practice time restricted thinking, consolidate scientific data presentation techniques and start to gain and build confidence in transferable skills such as producing academic posters. Formative assessment is primarily given during laboratory and workshop practical's. Core units do not contain complex coursework assignments such as technical reports, fieldwork assignments or long closed exams as we believe that these assessments test higher-level cognitive skills and are best suited to levels 5 and particularly 6.



Level 5: The assessment approaches for the core units include 2 hour closed exams, technical and fieldwork reports, presentations, academic research articles and portfolios. Closed exams are used to enable students to practice time restricted thinking primarily for the more numerical subjects such as geomechanics where clarity of thought and calculation accuracy under pressure are key skills required by industry. The technical and fieldwork reports develop the student's ability to collect and assimilate large data sets into coherent, scientific technical reports, this being a key transferable skill. Confidence in presentation techniques is enhanced by group presentation work. Formative assessment is given during laboratory and workshop practical's and during the production of technical reports by feedback being given on sections of the report prior to final submission.

Level 6: The assessment approaches for the core units include closed exams, technical reports, presentations and a final year dissertation (40 Credits). Closed exams are used to enable students to practice time restricted thinking primarily for the more numerical subjects such as Landslides and Slope Stability where clarity of thought and calculation accuracy under pressure are key skills required by industry. The technical reports continue to develop the student's ability to collect and assimilate large data sets into coherent, scientific technical reports. Confidence in presentation techniques is enhanced by individual presentations made as part of the Disaster Management and Communication Unit. The final year dissertation allows the student to carry out a guided independent piece of work from the initial planning, data collection and mapping exercise, through laboratory testing and final engineering design. Formative assessment on the dissertation is given throughout the year by the project tutor assigned to the student.

Level 7: The assessment emphasis at this level is on independent research-led investigations, as befitting the development of future researchers in academia and industry. The primary assessments are related to the research project, where aspects of hypothesis testing, experimental design, laboratory behaviour, data analysis, time management, and scientific communication form parts of the overall assessment. Formal examination does not form part of this assessment, however, students are expected to present their findings orally at an open symposium to staff and other students. Two 20-credit units support the activities associated with the research project, where assessments deal with literature reviewing, and research methods or techniques.

Many of the main learning outcomes are assessed at all levels:

Assessment of Knowledge and Understanding learning outcomes is through a combination of:

- Unseen examination and in-class tests [A1, A2, A4, A5, A6, A8]
- Assessed coursework that takes the form of technical reports, coursework reports, fieldwork reports, laboratory reports and presentations appropriate to particular units [A3, A7]
- At level 6 and 7 the projects are key elements in the assessment of knowledge and understanding. [A1 to A10]

Assessment of Cognitive Skills learning outcomes is through a combination of:

- Integrated technical reports where students have to solve complex Geoscience problems primarily in levels 4 and 5 [B1, B3, B4]
- Formal examinations require time-limited intellectual responses [B2, B3, B4]
- Levels 6 and 7 projects that require longer periods of intellectual reflection [B1 – B9]
- Presentations where intellectual ideas have to be translated into visually attractive images and explanations [B1 – B7]

Practical and Professional Skills are assessed through a combination of:

- Coursework and fieldwork tasks and reports appropriate to particular units [C1-C7]
- The levels 6 and 7 project reports and presentations [C1-C9]

Transferable skill assessment is embedded in the formal assessment of units through:

- Examinations [D1, D6]
- A variety of coursework elements comprising computer-based exercises [D3, D6], problem solving exercises [D6], laboratory and field exercises [D2, D4, D5] and group work [D1, D4, D5].

- Many transferable and key skills are assessed in work for the projects in levels 6 and 7 [D1, D2, D3, D4, D7]

## 18. Course Structure, Progression and Award Requirements

See [Unit Web Search](#)<sup>1</sup> for full details on the course structure and units

This is a 4-year full-time programme. Standard University rules apply. The regulations must be consulted for a full description of exit awards. Students wishing to exit the programme at level 6 will graduate with a BSc (Hons) qualification provided 360 credits have been obtained. To achieve an MEnvSci degree, 480 credits must be passed with 120 credits being obtained at levels 4, 5, 6 and 7. The programme is composed of 20-credit units, with a 40-credit project at level 6 and an 80-credit research project at level 7.

## 19. Employability Statement

Students graduating from this course will be equipped to find employment in a wide range of areas in the applied geosciences primarily in the Insurance, Aid NGO's, Civil, Mining, and Offshore sectors. They will also be equipped for roles in other areas of science as well as the opportunities open to graduates of any degree.

The School has strong links with industry and students professional and career development skills are supported by an Industrial Liaison Officer (ILO), who is responsible for liaising with industrial partners and alumni with regards to site and office visits, guest speakers, paid summer placements, research projects and graduate employment opportunities, in addition, the project allows students to engage with industry and potential employers if so desired. The ILO, in conjunction with the Programme Manager, also supports students in the preparation of CV and application forms/letters. PDP is embedded in the Personal Tutor System at all levels.

As the degree offered is vocational in nature, graduate employability has always been embedded as a matter of course. The main aspects of the curriculum that addresses this important aspect of student learning are as follows:

- PDP is integrated into the tutorial programme at Levels 4-7. Students are also encouraged to consider work experience, career opportunities and working environments in the L5 unit Professional Skills for Applied Geosciences and L6 unit Research and Professional Practice in Geohazards.
- Throughout the academic year professionals from industry give either evening lectures or lectures as part of specific Units. This enables students to gain first hand exposure to professionals in their chosen field and to engage in one-to-one discussions regarding career opportunities. Many of these speakers are University of Portsmouth Alumni.
- CV writing, interview techniques (mock interviews), and letter writing skills are embedded into the Professional Skills for Applied Geosciences Unit at Level 5.
- Team work skills are developed throughout the curriculum through activities such as group fieldwork exercises, group laboratory work (Soil Mechanics Unit as an example), group problem based learning exercises. Through the team work exercises leadership skills are understood through the role as team leader.
- Writing skills are developed through the production of reports and portfolios as part of the assessment strategy. For instance, Technical report writing is addressed as course work in several Units across degree pathways (for instance Technical Report – Introduction to Geomechanics Unit). This develops key skills in structures writing, accurate spelling, grammar and punctuation, referencing to Harvard APA, research skills and proof reading work (for instance – Research Article in GIS and Hazard Modelling Unit and in Final Year Project).
- Independent research, oral communication skills and technical writing skills are developed during the projects undertaken in levels 6 and 7. This also develops their study and self-

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<sup>1</sup> [www.port.ac.uk/unitwebsearch](http://www.port.ac.uk/unitwebsearch)

management skills together with their problem solving skills both in a practical sense (organising field work) and technical (solving a complex problem).

- Oral communication skills are developed throughout the curriculum with students required to present work orally as an assessed piece of work (for example – Research and professional practice in Geohazards - Level 6).
- Numeracy and IT skills are embedded into the curriculum through the use of professional software applications such as ArcGIS. The numerical analyses of problems are covered in many of the Geological Hazards Units for instance, GIS and Hazard Modelling, Introduction to Geomechanics, Landslides and Slope Stability, Hazard and Risk Analysis.
- The level 5 overseas study tour and the separate Level 6 optional Study Tour introduces the students to professional work place normally in an overseas location. Students have the opportunity of meeting professionals working in their field of interest actually in situ. Students can therefore gain insights and learning into the world of work, reflect on their graduate and employability skills and discuss these with professionals in a work environment. The opportunity to enhance cultural awareness, language skills and international perspectives is also developed through the Study Tour together with other overseas field trips (Tenerife for example).

## **Course Management**

### **20. Support for Student Learning**

- The Course is managed by a Course Leader
- Extensive induction programme introduces the student to the University and their course
- Each student has a personal tutor, responsible for pastoral support and guidance
- University support services include careers, financial advice, housing and counselling
- Pre-entry information is available from the University's pre-entry web site.
- Personal Development Planning is embedded into the Tutorial System at all Levels.
- Student Learning is supported by fully equipped laboratories for analysing the behaviour of soil and rock, optical mineralogy laboratory, research laboratories equipped with Scanning Electron Microscopy, X-ray diffractometer, sequential x-ray fluorescence spectrometer, Nuclear Instrumentation, atomic absorption spectrophotometer, Inductively-coupled plasma mass spectrometer.
- A new Student Centre incorporates Student Services and the Student's Union.
- The University provides an Academic Skills Unit and Maths Café to assist students in their studies and in particular in developing their key skills.
- The Student handbook provides information about course structure, local regulations and Departmental details.
- Electronic versions of all of the unit descriptors are available to all students.
- Key Skills opportunities are incorporated into all units.
- Written feedback is provided for all assessments.
- Study skills are covered and developed within the structured 1st year tutorial programme.
- The programme has access to a wide range of specialist laboratories and facilities and their support staff.
- The University Library provides reference support to the programme with a wide range of written, electronic and audio-visual material, and has a dedicated subject librarian.
- The University of Portsmouth has consistently been awarded an excellent rating for student support and guidance in a number of Quality Assurance Agency inspections

## 21. Admissions Criteria

### A. Academic Admissions Criteria

- Students are normally expected to have GCSE Maths, Science and English at grade B or above, or equivalent.
- Admission offers are usually made between 120-128 points, which may be derived from A2-levels, AS-levels, vocational A-levels, and other point rated qualifications. For A-level students, this must include achievement at A2 standard or equivalent in two subjects including at least one relevant science subject.
- Key skills qualifications will be considered, particularly those relating to numeracy and IT skills.
- IELTS Grade 6.0 or equivalent is required for international students where English is not their first language.
- Students will be admitted if they have completed a recognised, appropriate Access course.
- Professional skills and experience will be recognised and applications from mature students are encouraged.
- Other qualifications and experience will be considered on an individual basis.
- Current University policy on Recognition of Prior Learning is applied on an individual basis.
- Applications from international students are encouraged.

Students taking the BSc (Hons) Geological Hazards course may apply to transfer onto this course provided they have achieved an average mark at level 5 of at least 60%.

### B. Disability

The University makes no distinction in its admissions policy with regard to disability and will endeavour to make all reasonable adjustments in order to make it possible for students to study at Portsmouth on a course of their choice.

## 22. Evaluation and Enhancement of Standards and Quality in Learning and Teaching

### A. Mechanisms for Review and Evaluation

- Course Leader's Annual Standards and Quality Evaluative Review
- Head of Department's Annual Standards and Quality Evaluative Review
- Unit and Course Level student feedback considered at Board of Studies
- Unit Assessment Board consideration of student performance for each programme
- Annual Standards and Quality Reports to Board of Studies, including consideration of Subject and Award External Examiner Reports
- Periodic Programme Review
- Student Representatives and Student/Staff Consultative Committees
- National Student Survey
- National Postgraduate Taught Experience Survey
- Staff Performance and Development Review
- Peer Review and Development Framework
- Faculty Learning and Teaching Committee

### B. Responsibilities for Monitoring and Evaluation

- Unit Co-ordinators for unit content and delivery
- Course Leader for day-to-day running of course
- Board of Studies with overall responsibilities for operation and content of course
- Head of Department
- Associate Dean (Academic)

- Associate Dean (Students)
- Quality Assurance Committee
- Unit, Award and Progression Board of Examiners

### **C. Mechanisms for Gaining Student Feedback**

- Student Representation on Board of Studies
- Student Staff Consultative Committees
- Unit and Course level student feedback questionnaires
- University participates in external student surveys, e.g. National Student Survey (NSS), Postgraduate Taught Experience Survey (PTES), and International Student Barometer (ISB)

### **D. Staff Development Priorities**

- Academic staff undertake activities related to research, scholarship, teaching and learning and student support and guidance
- Annual staff performance and development reviews match development to needs
- Managers undertake a variety of management development programmes
- New academic staff required to undertake appropriate University of Portsmouth learning and teaching programmes
- All academic staff encouraged to seek Higher Education Academy membership
- Academic staff undertake initial and continuing professional development within the Academic Professional Excellence Framework (APEX) programme which is aligned with the Higher Education Academy (HEA)'s UK Professional Standards Framework (UKPSF)
- Support staff are encouraged to attend short courses in areas such as minute taking, and specific IT packages

## **23. Assessment Regulations**

The current University of Portsmouth academic regulations will apply to this programme (see [Assessment and Regulations<sup>2</sup>](#)).

## **24. Role of Externals**

Subject External Examiners who will:

- Oversee unit assessment and usually attend Unit Assessment Boards
- Review unit assessment strategy
- Sample assessment artefacts
- Present report to Unit Assessment Boards

Award External Examiners (usually also a Subject External Examiner) who will:

- Oversee and attend Award/Progression Boards
- Scrutinise and endorse the outcomes of assessment
- Ensure that the standard of the award is maintained at a level comparable with that of similar awards elsewhere in the United Kingdom

## **25. Indicators of Standards and Quality**

### **A. Professional Accreditation/Recognition**

Geological Society of London

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<sup>2</sup> [www.port.ac.uk/departments/services/academicregistry/qualitymanagementdivision/assessmentandregulations/](http://www.port.ac.uk/departments/services/academicregistry/qualitymanagementdivision/assessmentandregulations/)

## **B. Periodic Programme Review (or equivalent)**

21st January 2016 University of Portsmouth Periodic Programme Review – course confirmed as fit for purpose.

## **C. Quality Assurance Agency**

QAA Higher Education Review, March 2015, judgements about standards and quality meet UK expectations (*for full report see [Higher Education Review of the University of Portsmouth, March 2015](#)*<sup>3</sup>).

## **D. Others**

In the 2014 REF, research based in Earth Systems & Environmental Sciences was rated as 72% internationally excellent or world-leading, and 100% of our research impact was classed as outstanding or very considerable in terms of reach and significance.

## **26. Further Information**

Further information may be found in:

- Student Handbook
- University of Portsmouth Curriculum Framework Document
- University of Portsmouth Prospectus
- [University of Portsmouth](#)<sup>4</sup> and [School](#)<sup>5</sup> websites

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<sup>3</sup> [www.qaa.ac.uk/en/ReviewsAndReports/Documents/University%20of%20Portsmouth/University-of-Portsmouth-HER-15.pdf](http://www.qaa.ac.uk/en/ReviewsAndReports/Documents/University%20of%20Portsmouth/University-of-Portsmouth-HER-15.pdf)

<sup>4</sup> [www.port.ac.uk/](http://www.port.ac.uk/)

<sup>5</sup> [www.port.ac.uk/school-of-earth-and-environmental-sciences/](http://www.port.ac.uk/school-of-earth-and-environmental-sciences/)