

UNIVERSITY OF EAST LONDON

POSTGRADUATE PROGRAMME SPECIFICATION

PGDIP Civil Engineering

Final award	PgDip
Intermediate awards available	PgCert
Mode of delivery	UEL on campus
Details of professional body accreditation	N/A
Relevant QAA Benchmark statements	Masters in Engineering (MEng)
Date specification last updated	October 2015

Alternative locations for studying this programme

Location	Which elements?	Taught by UEL staff	Taught by local staff	Method of Delivery
Linton Education Group, Malaysia. This programme is no longer recruiting.	EG7001, EG7006, EG7004 & EG7010	No	Yes	Full Time

The summary - Programme advertising leaflet

Programme content

The programme can be taken either in part-time or in full-time mode. The PGDip is offered for full-time students with the possibility of being completed in one academic year's duration with enrolment on the programme possible either in September or February. The PGDip for part-time students have half load during the semesters and, consequently, the length of these studies is doubled. Part-time students require two years to complete the PGDip programme.

The maximum registration period is six years.

Students require one 30-credit module for a Postgraduate Associate Certificate, two 30-credit modules for the PGCert (Intermediate awards) and four 30-credit modules for the PGDip.

PGDip in Civil Engineering at UEL

The programme offers several optional and self-contained modules in the field of Civil Engineering. Different areas, such as structural analysis and design, earthquake engineering,

soil structure engineering, hydraulics and coastal engineering, highway and transportation engineering are covered through the optional modules of this programme.

Postgraduate programmes in the field of Civil Engineering have been successfully run at the UEL since 1964.

Entry requirements

- BEng(Hons) minimum class 3 or BSc (Hons) minimum 2:2, both in Civil Engineering
- Appropriate professional qualifications such as MICE or MIStructE
- Applicants with other qualifications will be considered on an individual basis

In the case of applicants whose first language is not English, then IELTS Academic 6.0 Overall, with no less than 6.0 in writing and speaking and 5.5 in reading and listening components, or equivalent, is required. International qualifications will be checked for appropriate entry to UK Higher Education postgraduate programmes.

Students who apply to enter stages of the programme may be admitted through normal Accreditation of Experiential Learning (AEL) or Accreditation of Certificated Learning (ACL) processes, or through an approved articulation agreement. Therefore such applicants must be able to demonstrate and evidence that they have the required learning outcomes as listed in the modules for which they are seeking exemption.

At UEL we are committed to working together to build a learning community founded on equality of opportunity - a learning community which celebrates the rich diversity of our student and staff populations. Discriminatory behaviour has no place in our community and will not be tolerated. Within a spirit of respecting difference, our equality and diversity policies promise fair treatment and equality of opportunity for all. In pursuing this aim, we want people applying for a place at UEL to feel valued and know that the process and experience will be transparent and fair and no one will be refused access on the grounds of any protected characteristic stated in the Equality Act 2010.

Programme structure

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Learning environment

Teaching methods include lectures, tutorials, seminars, laboratory work and external site visits.

Assessment

Assessment is by a mix of coursework and end of semester examination. The aggregate pass mark for a module is 50% with minimum module component mark of 40%.

Students with disabilities and/or particular learning needs should discuss assessments with the Programme Leader to ensure they are able to fully engage with all assessment within the programme.

Relevance to work/profession

Our teaching is informed by strong links with industry and the profession.

Added value

Transfer from the PGDip to the MSc programme in Civil Engineering is possible depending on results achieved, and students may obtain details of current requirements from the programme leader.

Your future career

Transfer from the PGDip to the MSc programme in Civil Engineering is possible depending on results achieved, and students may obtain details of current requirements from the programme leader.

How we support you

Students may approach staff for help with personal or academic problems either in person or by e-mail. A programme handbook provides all relevant information on the programme and the teaching resources.

Programme aims and learning outcomes

What is this programme designed to achieve?

This programme is designed to give you the opportunity to:

- Gain a depth of knowledge and understanding of the most up to date practices and theories in Civil Engineering
- Develop techniques for analysing and solving problems. These may arise in various Civil Engineering projects.
- Understand the role of the engineer as an important professional in society and the built environment.

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

What will you learn?

Knowledge

Understand the latest theories and practices in:

- Water and Geotechnical Engineering
- Highways and Transportation Engineering
- Analysis and Design of Structures
- Project Organisation and Construction Management
- Relevant scientific principles of the specialisation.
- New and emerging technologies.
- Appropriate models for solving problems in engineering, and the ability to assess the limitations of particular cases.

Thinking skills

Develop skills in:

- Analysing data
- Critical assessment of current theories
- Solving practical problems
- Applying original thought to the development of practical solutions for products, systems, components or processes.
- Developing a thorough understanding of current practice and its limitations, and some appreciation of likely new developments.
- Developing advanced level knowledge and understanding of a wide range of engineering materials and components.
- Making general evaluations of risks through some understanding of the basis of such risks.

Subject-Based Practical skills

Ability to:

- Interpret experimental data
- Use various computer design packages
- Complete design projects
- Apply engineering techniques taking account of a range of commercial and industrial constraints

Skills for life and work (general skills)

Ability to:

- Communicate effectively both verbally and in writing

- Use Word, Excel, Outlook and PowerPoint programs
- Work as a part of a design team
- Exercise initiative and personal responsibility, which may be as a team member or leader.
- Learn new theories, concepts, methods etc and apply these in unfamiliar situations.
- Develop, monitor and update a plan, to reflect a changing operating environment.

The programme structure

Introduction

All programmes are credit-rated to help you to understand the amount and level of study that is needed.

One credit is equal to 10 hours of directed study time (this includes everything you do e.g. lecture, seminar and private study).

Credits are assigned to one of 5 levels:

- | | |
|---|---|
| 3 | equivalent in standard to GCE 'A' level and is intended to prepare students for year one of an undergraduate degree programme |
| 4 | equivalent in standard to the first year of a full-time undergraduate degree programme |
| 5 | equivalent in standard to the second year of a full-time undergraduate degree programme |
| 6 | equivalent in standard to the third year of a full-time undergraduate degree programme |
| 7 | equivalent in standard to a Masters degree |

Credit rating

The overall credit-rating of this programme is 120 for PgDip, 60 for PgCert.

Typical duration

The duration of this programme is one calendar year full-time if enrolment is in September, and two calendar years part-time.

It is possible to move from full-time to part-time study and vice-versa to accommodate any external factors such as financial constraints or domestic commitments. Many of our students make use of this flexibility and this may impact on the overall duration of their study period.

How the teaching year is divided

The teaching year is divided into two semesters of roughly equal length. A full-time student will study two 30 credit modules per semester and a part-time student will study one module per semester

What you will study when

Students may choose modules from the optional 30 credit modules on offer each semester. The modules offered are selected from the following list:

Level	UEL Module Code	Available by distance learning (Y/N)	Module Title	Credit	Status
7	EG7001	N	Hydraulic Structures, Coastal and River Engineering	30	Option
7	EG7003	N	Engineering Management and Project Organisation	30	Option
7	EG7004	N	Soil Structure Engineering	30	Option
7	EG7005	N	Design in Steel and Concrete	30	Option
7	EG7006	N	Advanced Structural Analysis	30	Option
7	EG7010	N	Structural Dynamics and Earthquake Engineering	30	Option
7	EG7012	N	Highway Engineering	30	Option
7	EG7013	N	Transportation Engineering	30	Option
7	EG7015	N	Design in Timber and Masonry	30	Option

Please Note – All modules greater than 20 credits are non-compensatable

Requirements for gaining an award

In order to gain a Postgraduate Certificate, you will need to obtain 60 credits at Level 7.

In order to gain a Postgraduate Diploma, you will need to obtain 120 credits at Level 7

In order to obtain a Masters, you will need to obtain 180 credits at Level 7. These credits will include a 60 credit level 7 core module of advanced independent research.

Masters Award Classification

Where a student is eligible for an Masters award then the award classification is determined by calculating the arithmetic mean of all marks and applying the mark obtained as a percentage, with all decimal points rounded up to the nearest whole number, to the following classification

70% - 100%	Distinction
60%- 69%	Merit
50% - 59%	Pass
0% - 49%	Not passed

Teaching, learning and assessment

Teaching and learning

Knowledge is developed through:

- Lectures
- Tutorials
- Seminars
- Site visits

Thinking skills developed through:

- Coursework
- Mini projects

Practical skills:

- Laboratory experiments
- Design projects

Skills for life developed through:

- Seminars
- Presentation of analysis data

Assessment

Knowledge is assessed by:

- Coursework
- Examinations

Thinking skills are assessed by:

- Solutions to practical problems
- Evaluation of literature
- Evaluation of experimental data

Practical skills are assessed by:

- Use of design aids
- Use of computer aided design packages
- Laboratory experiments

Skills for life are assessed by:

- Seminars
- Design drawings
- Oral examinations

How we assure the quality of this programme

Before this programme started

Before this programme started, the following was checked:

- there would be enough qualified staff to teach the programme;
- adequate resources would be in place;
- the overall aims and objectives were appropriate;
- the content of the programme met national benchmark requirements;
- the programme met any professional/statutory body requirements;
- the proposal met other internal quality criteria covering a range of issues such as admissions policy, teaching, learning and assessment strategy and student support mechanisms.

This is done through a process of programme approval which involves consulting academic experts including some subject specialists from other institutions.

How we monitor the quality of this programme

The quality of this programme is monitored each year through evaluating:

- external examiner reports (considering quality and standards);
- statistical information (considering issues such as the pass rate);
- student feedback.

Drawing on this and other information, programme teams undertake the annual Review and Enhancement Process which is co-ordinated at School level and includes student participation. The process is monitored by the Quality and Standards Committee.

Once every six years an in-depth review of the whole subject area is undertaken by a panel that includes at least two external subject specialists. The panel considers documents, looks at student work, speaks to current and former students and speaks to staff before drawing its conclusions. The result is a report highlighting good practice and identifying areas where action is needed.

The role of the programme committee

This programme has a programme committee comprising all relevant teaching staff, student representatives and others who make a contribution towards the effective operation of the programme (e.g. library/technician staff). The committee has responsibilities for the quality of the programme. It provides input into the operation of the Review and Enhancement Process and proposes changes to improve quality. The programme committee plays a critical role in the quality assurance procedures.

The role of external examiners

The standard of this programme is monitored by at least one external examiner. External examiners have two primary responsibilities:

- To ensure the standard of the programme;
- To ensure that justice is done to individual students.

External examiners fulfil these responsibilities in a variety of ways including:

- Approving exam papers/assignments;
- Attending assessment boards;
- Reviewing samples of student work and moderating marks;

- Ensuring that regulations are followed;
- Providing feedback through an annual report that enables us to make improvements for the future.

The external examiner reports for this programme are located on the UEL virtual learning environment (UELPlus / Moodle) on the school notice board under the section entitled 'External Examiner Reports & Responses'. You can also view a list of the external examiners for the UEL School by clicking on the link below.

<http://www.uel.ac.uk/ga/CurrentExternalExaminers.htm>

Listening to the views of students

The following methods for gaining student feedback are used on this programme:

- Module evaluations
- Student representation on programme committees

Students are notified of the action taken through:

- circulating the minutes of the programme committee
- providing charts on student feedback on the programme notice board

Listening to the views of others

The following methods are used for gaining the views of other interested parties:

- Questionnaires to former students
- Industrial liaison committee

Further information

Where you can find further information

Further information about this programme is available from:

- The UEL web site (<http://www.uel.ac.uk>);
- The student handbook;
- Module study guides;
- UEL Manual of General Regulations (<http://www.uel.ac.uk/ga/>);
- UEL Quality Manual (<http://www.uel.ac.uk/ga/>);
- Regulations for the Academic Framework (<http://www.uel.ac.uk/academicframework/>);
- School web pages (www.uel.ac.uk/ace);