PROGRAMME SPECIFICATION DOCUMENT

1. Qualification	2. Programme Title	3. UCAS Code	4. Programme Type
PgC/PgD/MSc	**Civil Engineering**		**Master Programme**

5. Main Purposes and Distinctive Features of the Programme

The Postgraduate Diploma (PgD) in Civil Engineering programme is intended to provide a distinctive educational platform to encourage the development of articulate, numerate, literate, imaginative, versatile, confident and inquisitive engineers who are able to link the theoretical with the practical. The course is designed for those who have already graduated with a civil engineering or engineering related degree. Over an above the PgD, the MSc aims to provide the ability to undertake research work to contribute to the body of knowledge in a field of inquiry related to civil engineering.

The objectives of the MSc Civil are to produce post-graduates who:

- **Have the skills to take responsibility for innovation and change and to promote advanced designs and design methods (PgC/PgD/MSc).**
- **Are released to use their innate creativity founded on a depth of understanding of engineering principles (PgC/PgD/MSc).**
- **Have the skills to critically analyse theory and practice relating to construction business performance with emphasis on efficiency and effectiveness(PgD and MSc)**
- **Have the ability to undertake a substantial piece of academic research (MSc only)**

6. What a postgraduate should know and be able to do on completion of the programme

Design and manage the construction of civil engineering installations effectively and with ingenuity having regard to sustainability and safety.

Knowledge and understanding in the context of the subject(s)

K1 Comprehend the role of engineers in leading and controlling projects and strategies.

Cognitive skills in the context of the subject(s)

C1 Be numerate and capable of conceptualising engineering problems in mathematical form.

C2 Be creative and able to offer a variety of solutions to engineering problems.

C3 Be literate and be able to express ideas succinctly and clearly both in writing and orally.

Subject-specific practical/professional skills

S1 Skill to deploy civil engineering technology and/or techniques in designing solutions to engineering problems.

S2 Comprehend the practical implications and buildability issues in civil engineering

S3 Deploy the skills to manage projects and strategies.

Other skills (e.g. key/transferable) developed in subject or other contexts

O1 By virtue of other skills gained on the course, be versatile, confident and inquisitive.

A Cognitive	B Practical	C Personal & Social	D Other
Power of quantitative and qualitative analysis	Writing skills	Self-motivation	Application of management theories
Critical reasoning	Information and data handling skills	Teamwork	Develop confidence in theory
Ability to design and be imaginative	Organisational ability and versatility		Application of requirements of environmental and health and safety policies and practices
Develop powers of inquisition			

8. Duration and Structure of Programme/Modes of Study/Credit Volume of Study Units
(1 Year full-time; 3 years part-time). Postgraduate certificate 60 credits, Postgraduate diploma 120 credits, MSc 180 credits.

Part

Masters	Core	Options	Dissertation BLT5000 (60 credits)
Post-graduate diploma		**Semester 1** COM4011 Project Management (30 credits) *or 2No from* BLT4012 Advanced Structural Analysis (15 credits) BLT4013 Geotechnical Engineering (15 credits) BLT4014 Urban drainage systems (15 credits) BLT4018 Concrete technology and sustainability (15 credits) **Semester 2** *1No from* COM4013 Environmental Management (30 credits)or COM4015 Construction Law and Sustainable Procurement (30 credits) *Or 2No from* BLT4015 Transport Analysis (15 credits) BLT4016 Appraisal and re-use of old buildings (15 credits) BLT4017 Geotechnical modelling and analysis (15 credits) BLT4019 Assessment and repair of concrete structures (15 credits) (Note: Students must study one 30 credit module COM4011, COM4013 or COM4015)	
Post-graduate certificate		**Semester 1** *2No from* BLT4012 Advanced Structural Analysis (15 credits) BLT4013 Geotechnical Engineering (15 credits) BLT4014 Urban drainage systems (15 credits) BLT4018 Concrete technology and sustainability (15 credits) **Semester 2** *2No from* BLT4015 Transport Analysis (15 credits) BLT4016 Appraisal and re-use of old buildings (15 credits) BLT4017 Geotechnical modelling and analysis (15 credits) BLT4019 Assessment and repair of concrete structures (15 credits)	

9. Learning, Teaching and Assessment Strategy

Learning and Teaching Methods
Intensive tutorial sessions, individual and group work in a design studio, teaching, seminars and discussions and guest lectures.

Assessment Methods
Unseen time constrained examinations, submission of the products of design processes (calculations, specifications, drawings and models), report and essay submissions, seminar presentations and oral examinations.

Assessment Classification System
Exceptional 70% and above
Very Good 60%-69%
Good 50%-59%
Satisfactory 40%-49%
Unsatisfactory 39% and below

Distinction Classification Bands
70% and above

10. Other Information *(including compliance with relevant University policies)*

Date programme first offered

September 2006

Admissions Criteria
Standard Requirements

Three year Civil Engineering honours degree or equivalent, usually with an upper second or first class classification.

International English Language Testing System Score of 6.5 or higher for overseas students

Non Standard Entry

First degree in Civil Engineering or other equivalent engineering degree or equivalent when combined with extensive relevant experience

Indicators of Quality and Standards

The MSc Civil Engineering is designed to offer the opportunity to learn skills and develop ingenuity sufficient to meet the base educational need to become a Chartered Civil Engineer.