Programme Regulations: 2025/26

Programme Titles:
Degree of Master of Engineering with Honours in Civil Engineering - UCAS Code: H290
Degree of Master of Engineering with Honours in Civil Engineering with Year in Industry – 1952U
Degree of Master of Engineering with Honours in Civil Engineering with Year in Industry - Code: H295**
Degree of Master of Engineering with Honours in Civil & Structural Engineering - UCAS Code: H242
Degree of Master of Engineering with Honours in Civil & Structural Engineering with Year in Industry – UCAS Code: H296**
Degree of Master of Engineering with Honours in Civil & Structural Engineering with Year in Industry – 1951U

Exit Award Titles:
Degree of Master of Engineering with Honours in Civil Engineering Science – Code 1658U*
Degree of Master of Engineering with Honours in Civil Engineering Science with Year in Industry – *Code TBC*

Notes

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

(ii) 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.

(iii) Unless otherwise stated under 'Type', modules are not core.

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

(v) A core module is a module which a student must pass, and in which a fail mark may neither be carried nor compensated; such modules are designated by the board of studies as essential for progression to a further stage of the programme or for study in a further module.

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

(vii) Candidates with a Stage 2 average mark of below 55% must normally transfer to the equivalent BEng programme.

(viii) Programme transfers for Student Visa students may be restricted. Please refer to the Visa Team for advice.

*(ix) *The Master of Engineering with Honours in Civil Engineering Science and the Master of Engineering with Honours in Civil Engineering Science with Year in Industry are non-accredited Honours degree titles and are awarded where a candidate only meets the requirements of the University's Taught Programme Regulations.*

*(x) ** Programmes coded H295 and H296 are withdrawn from entry as of September 2024.*

1. Stage 1

All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*
ENG1001	Engineering Mathematics 1	20	10	10	4	Core
ENG1003	Electric and Magnetic Systems	15	10	5	4	
ENG1004	Electronics and Sensors	10		10	4	
ENG1005	Thermofluid Mechanics	15	5	10	4	
ENG1006	Properties and behaviour of Engineering Materials	15	15		4	
ENG1007	Mechanics I	15	5	10	4	
ENG1008	Introduction to Programming Languages (C, Matlab and Python)	15	7	8	4	
ENG1009	Sustainable Design, Creativity, and Professionalism	15	7	8	4	

Year in Industry Only:
To be eligible for the intercalating year candidates are required to obtain an overall pass of at least 50% at the end of Stage 1.

2. Stage 2

All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*
CEG2002	Statistics and Numerical Methods for Civil Engineers	10		10	5	
CEG2004	Design of Sustainable Engineering Systems 2	20	10	10	5	Core
CEG2005	Construction Management	10	10		5	Core
CEG2101	Water Treatment Engineering for the 21st Century	10		10	5	
CEG2102	Environmental Systems and Quantification	10	10		5	
CEG2201	Geotechnics	10	10		5	Core
CEG2302	Design of Building Elements	10	10		5	Core
CEG2401	Land Traffic and Highways	10	10		5	
CEG2502	Hydraulics	10		10	5	
CEG2711	Engineering Surveying	10		10	5	
ENG2033	Engineering Mechanics: Statics	10	10		5	Core

To progress to Stage 3 of this programme, candidates are required to obtain an overall average over all modules taken at Stage 2 of at least 55%.

Year in Industry Only: Students who are required to resit their stage 2 assessment must delay the start of their placement until they have done so. Students who fail stage 2 may not complete a placement year.

3. Year 3 (Intercalating) – Careers Placement Year

(a) Upon successful completion of Stage 2 (with an overall pass threshold of 50% at the end of Stage 1) and before entering Stage 3, candidates shall spend the equivalent of one academic year in an approved placement. If a candidate is not successful in securing an approved placement, or fails the assessment of the placement year, then the candidate will be required to transfer to Stage 3 of the equivalent programme without Year in Industry.

(b) All candidates shall take the following compulsory module:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*
NCL3000	Career Service Placement Year Module	120	60	60	6	

4. Stage 3

(a) All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*
CEG3001	Design of Sustainable Engineering Systems 3	20	20		6	

CEG3003	Engineering Ethics and Sustainability	10		10	6	
CEG3004	Sustainable Engineering Systems Design Project	20		20	6	
CEG3005	The Data-Centric Urban Environment	10		10	6	
CEG3203	Foundation Design	10	10		6	
CEG3204	Exploring the Ground: Investigating and improving our terrestrial environment	10	10		6	
CEG3301	Design of Building Systems	10	10		6	
CEG3708	Spatial Data Engineering and BIM	10	10		6	

(b) All candidates for Master of Engineering with Honours shall follow one of the streams (i) to (ii) below, for which they are registered.

(i) Civil Engineering (H290/H295/1952U)

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*
CEG3401	Design of Transport Infrastructure	10		10	6	
CEG3503	Hydrosystems Engineering	10	10		6	

(ii) Civil and Structural Engineering (H242/H296/1951U)

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*
ARC3020	Introduction to Architecture	10		10	6	
CEG3302	Structural Mechanics	10	10		6	

5. Stage 4

(a) All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8003	Public Policy: Infrastructure and Climate Change	10	10		7		Block
CEG8006	Digital Engineering and Analytics	10	10		7		Block
CEG8011	Construction Project Management	10	10		7		Block
CEG8099	Investigative Research Project	30	10	20	7		

(b) All candidates shall take 20 credits of optional modules normally selected from the following list (subject to timetabling):

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8005	Global Engineering – An International Design and Build Challenge	20	5	15	7		Block
CEG8010	Bridge to industry	20	5	15	7		Block
SPG8016	Design, Innovation and Entrepreneurship in Science and Engineering	20		20	7		Block

(i) Civil Engineering (H290/H295/1952U).

All candidates shall take technical optional modules with a total value of 40 credits from one of the subject areas below:

ENVIRONMENTAL ENGINEERING

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8105	Solid Waste and Resource Management	10	10		7		Block
CEG8107	Environmental Engineering in Low and Middle Income Countries	10		10	7		Block
CEG8112	Air Pollution	10	10		7		Block
CEG8115	Remediation Technologies for Contaminated Environments	10		10	7		Block

GEOTECHNICAL ENGINEERING

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8229	Geotechnical investigation, modelling and design	20	20		7		Block
CEG8316	Structural and Geotechnical Finite Element Analysis	20		20	7		Block

TRANSPORT ENGINEERING

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8421	Traffic Flow and Control	10		10		7	Block
CEG8422	Connected, Automated and Intelligent Transport Systems	10	10		7		Block
CEG8431	Technologies for Future Mobility	10		10	7		Block
CEG8437	Human Systems Engineering for Transport	10	10		7		Block

WATER RESOURCES ENGINEERING – All candidates Shall take the following compulsory module;

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8526	Hydrosystems Modelling and Management	20	20		7		Block

Candidates shall take a further 20 credits of technical optional modules selected from the following list (subject to timetabling):

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8514	Climate Change: Vulnerability, Impacts and Adaptation	10		10	7		Block
CEG8517	State of the Art Modelling in Hydraulics	10		10	7		Block
CEG8523	Modelling and Forecasting of Floods	10		10	7		Block

(ii) Civil and Structural Engineering (H242/H296/1951U).

All candidates shall take the following compulsory modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Type*	*Mode*
CEG8304	Structural Reliability	10	10		7		Block
CEG8314	Seismic Resistant Design	10	10		7		Block
CEG8316	Structural and Geotechnical Finite Element Analysis	20		20	7		Block

Up to 20 credits of alternative optional modules may be selected subject to the approval of the Degree Programme Director.

6. Assessment methods

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

7. Condonement and Compensation

For students entering the programme in 2021/22 onwards, the Engineering Council's policy on compensation and condonement will apply to marks awarded for modules at all stages, to satisfy accreditation requirements. To be awarded an accredited honours degree, only a maximum of 30 credits can be compensated over the duration of the degree programme, where the final mark is up to 5 percentage points below the pass mark. Core modules cannot be compensated. Individual projects and group projects worth more than 20 credits cannot be compensated.

There is no condonement of modules delivering Accreditation of Higher Education Programmes (AHEP) learning outcomes.

Any student not satisfying the accreditation requirements, but satisfying the University's Degree and Assessment regulations, will have the opportunity to be awarded a non-accredited honours degree with its classification based on the overall final stage averages beyond stage one.

8. Degree classification

Candidates will be assessed for degree classification on the basis of all the modules taken at Stages 2, 3 and 4 with the weighting of the stages being 1:2:3 for Stage 2, Stage 3 and Stage 4 respectively.