Civil Engineering in Practice (CEGE0021)

Description

Brief Description

- Structural Design
- Sustainable Infrastructure
- Scenario
- Project Management
- Constructionarium Field Course

Aims:

- The aims of this module are to develop students’ aptitude and understanding in the practical application of engineering knowledge gained in years 1 and 2.
- The design sessions are aimed at developing students understanding of structural mechanics and engineering materials through project work.
- The scenario aims to build on experience gained in previous scenarios in years 1 and 2 in order to extend students ability to apply engineering theory to the design of an engineering project and solve a practical problem.
- The Constructionarium project is aimed giving the students experience of site working and the considerations relating to health and safety, design, the construction process and legal, financial implications of their decisions.

Learning Outcomes:

- To provide students with first-hand experience of the processes involved in the execution of civil engineering projects;
- To develop in students an understanding of structural mechanics and engineering materials through project work;
- To introduce/extend certain expertise in construction (steel, masonry, timber, precast concrete, detailing,

Key information

Year 2019/20
Credit value 30 (300 study hours)
Delivery UG L6, Campus-based
Reading List View on UCL website
Tutor Dr Tristan Robinson
Term Terms 1 and 2
Timetable View on UCL website

Assessment

- Group project: 20%
- Group project: 15%
- Practical examination (departmentally managed): 15%
- Group project: 15%
- Individual project: 15%
- Individual project: 20%

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

Disclaimer: All information correct as of August 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
manufacture and assembly, etc.);

- To reinforce students’ understanding of the designer’s roles and responsibilities under the CDM regulations;

- To develop an appreciation of certain aspects of the legal, financial and organizational framework relevant to the design, procurement and execution phases of civil engineering projects.

- Understand that engineers work in complex social, political, cultural and ecological contexts.

- Identify the influence of social and political values on engineering projects and decisions.

- Allow students to understand the environmental and sustainability issues relating to construction in the functional flood plain.

- Gain experience of producing a multi-discipline design drawing on knowledge and experience in the fields of structures, architecture, geotechnics, water, environmental, financial, social and political.