Design and Professional Skills II (CENG0007)

Description

Aims:
The module aims to offer the student a variety of authentic engineering problems and experiences in order to promote professional values and behaviour, and to locate Chemical Engineering theory in a realistic context.
The topics selected for the scenarios will be related to material taught in other Year 2 modules.

Learning Outcomes:

On completion of this module students should:
1. Understand issues important to engineering designers and which support the development of their own design skills such as decision-making, team organization, idea development, concept testing, material selection, engineering judgment etc;
2. Understand the relation between environment, society and societal development;
3. Be able to perform simple sustainable assessment in process design;
4. Be able to identify hazards and understand the concepts of inherently safe design;
5. Understand the legal framework in which a chemical engineer operates;

Synopsis:
This course comprises four professional design projects (scenarios) designed to complement and, where appropriate, extend the learning opportunities afforded by the modules running throughout Year 2;

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk
Engineering Sciences and external sources as appropriate;

Each scenario will comprise different combinations of practical engineering and design skills, systems integration, ethics, management and sustainability;