Process Systems Modelling and Design (CENG0025)

**Description**

**Aims:**
The module aims to develop modelling concepts and simulation skills to consider complex process design in the context of safety and sustainable process plant development.

**Learning Outcomes:**
On completion of this module, the students will be expected to be:

- able to develop computational models for complex plant items;
- able to use contemporary simulation tools to modelling process behaviour;
- able to make informed decisions on process design based on conflicting and missing information in the context of safety and sustainable process plant development.

**Synopsis:**
The following issues will be considered:

- process systems engineering
- process modelling
- process design
- process optimisation
- dynamic simulation
- uncertainty analysis
- model validation

Lectures, tutorials and e-learning resources will provide training in the techniques and tools required to carry out design projects applying advanced design concepts and computational tools.

**Key information**

- **Year:** 2019/20
- **Credit value:** 15 (150 study hours)
- **Delivery:** PGT L7, Campus-based
- **Reading List:** View on UCL website
- **Tutor:** Dr Michail Stamatakis
- **Term:** Term 1
- **Timetable:** View on UCL website

**Assessment**

- Coursework: 100%

**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.
Chemical Engineering

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**Credit value** 15 (150 study hours)

**Delivery** UGM L7, Campus-based

**Reading List** View on UCL website

**Tutor** Dr Federico Galvanin

**Term** Term 1

**Timetable** View on UCL website

**Assessment**

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