Process Engineering Modelling and Design (CENG0053)

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 synthesis
- process optimisation
- dynamic simulation
- control system design

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

<table>
<thead>
<tr>
<th>Year</th>
<th>2019/20</th>
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<tbody>
<tr>
<td>Credit value</td>
<td>15 (150 study hours)</td>
</tr>
<tr>
<td>Delivery</td>
<td>PGT L7, Campus-based</td>
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<tr>
<td>Reading List</td>
<td>View on UCL website</td>
</tr>
<tr>
<td>Tutor</td>
<td>Dr Michail Stamatakis</td>
</tr>
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<td>Term</td>
<td>Term 1</td>
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<tr>
<td>Timetable</td>
<td>View on UCL website</td>
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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