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 synthesis, process optimisation, dynamic simulation and 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

Year: 2018/19
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%
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 synthesis, process optimisation, dynamic simulation and 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>2018/19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit value</td>
<td>15 (150 study hours)</td>
</tr>
<tr>
<td>Delivery</td>
<td>UGM L7, Campus-based</td>
</tr>
<tr>
<td>Reading List</td>
<td>[View on UCL website]</td>
</tr>
<tr>
<td>Tutor</td>
<td>Dr Federico Galvanin</td>
</tr>
<tr>
<td>Term</td>
<td>Term 1</td>
</tr>
<tr>
<td>Timetable</td>
<td>[View on UCL website]</td>
</tr>
</tbody>
</table>

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](http://ucl.ac.uk).

Disclaimer: All information correct as of December 2018. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.