Chemical Engineering

Research Methods - Quantitative (CENG0045)

Description

Aims:
To provide students with the skills necessary to carry out the research component of MSc programmes effectively and successfully.

Learning Outcomes:
Upon completion, the students will be expected to have gained:

- understanding of quantitative research methods available and in which domain they are most appropriate;
- the advantages and disadvantages of these methods;
- understanding on the treatment of numerical data and statistics;
- understanding of the appropriate presentation of numerical data

Synopsis:
This module will provide students with an introduction to research, giving an insight into the underlying principles upon which scientific and social research is based. It will then go on to describe the tools and methods used to carry out and disseminate quantitative research. It will include 5 major themes;

- Understanding Quantitative Research & Managing Your Research
- Scientific Methods and Design of Experiments
- Analysis of Numeric Data & Statistics
- Presenting Quantitative Data
- Management, Storage and Archiving of Quantitative Data

Key information

<table>
<thead>
<tr>
<th>Year</th>
<th>2019/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit value</td>
<td>15 (150 study hours)</td>
</tr>
<tr>
<td>Delivery</td>
<td>PGT L7, Campus-based</td>
</tr>
<tr>
<td>Reading List</td>
<td>View on UCL website</td>
</tr>
<tr>
<td>Tutor</td>
<td>Dr Rhodri Jervis</td>
</tr>
<tr>
<td>Term</td>
<td>Term 2</td>
</tr>
<tr>
<td>Timetable</td>
<td>View on UCL website</td>
</tr>
</tbody>
</table>

Assessment

- Written examination (departmentally managed): 10%
- Coursework: 60%
- Oral Presentation: 30%

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.