Water and Wastewater Treatment (CEGE0022)

Description
This module gives a brief overview of processes for municipal water and wastewater treatment. It includes coagulation-flocculation, sedimentation, rapid sand filtration, adsorption, ion exchange, membranes, dissolved air flotation, disinfection; and biological wastewater treatment such as activated sludge, trickling filters, and anaerobic digestion. Most of the lectures consist of theoretical background and application exercises. The module assessment consists of a written-exam (80%) and a laboratory report (20%). Laboratory report is usually done by a group of two students. A site visit to a treatment plant is usually arranged for Reading week, however, attendance is not compulsory.

Learning Outcomes:

- To explain the aims of water and wastewater treatment
- To explain the importance of drinking water and discharge standards
- To identify and explain the main physical, chemical and biological processes for water and wastewater treatment
- To understand the main design criteria and operational parameters for water and wastewater treatment processes
- To determine the dimensions of basic treatment units

Key information

<table>
<thead>
<tr>
<th>Year</th>
<th>2020/21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit value</td>
<td>15 (150 study hours)</td>
</tr>
<tr>
<td>Delivery</td>
<td>UG L6, Campus-based</td>
</tr>
<tr>
<td>Reading List</td>
<td>View on UCL website</td>
</tr>
<tr>
<td>Tutor</td>
<td>Dr Luiza Campos</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

- Written examination (main exam period): 80.0%
- Coursework: 20.0%

Find out more
For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk
Water and Wastewater Treatment (CEGE0022)

Description
This module gives a brief overview of processes for municipal water and wastewater treatment. It includes coagulation-flocculation, sedimentation, rapid sand filtration, adsorption, ion exchange, membranes, dissolved air flotation, disinfection; and biological wastewater treatment such as activated sludge, trickling filters, and anaerobic digestion. Most of the lectures consist of theoretical background and application exercises. The module assessment consists of a written-exam (80%) and a laboratory report (20%). Laboratory report is usually done by a group of two students. A site visit to a treatment plant is usually arranged for Reading week, however, attendance is not compulsory.

Learning Outcomes:
- To explain the aims of water and wastewater treatment
- To explain the importance of drinking water and discharge standards
- To identify and explain the main physical, chemical and biological processes for water and wastewater treatment
- To understand the main design criteria and operational parameters for water and wastewater treatment processes
- To determine the dimensions of basic treatment units

Key information
- Year: 2020/21
- Credit value: 15 (150 study hours)
- Delivery: PGT L7, Campus-based
- Reading List: View on UCL website
- Tutor: Dr Luiza Campos
- Term: Term 1
- Timetable: View on UCL website

Assessment
- Written examination (main exam period): 80.0%
- Coursework: 20.0%

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 March 2020. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
Water and Wastewater Treatment (CEGE0022)

Description
This module gives a brief overview of processes for municipal water and wastewater treatment. It includes coagulation-flocculation, sedimentation, rapid sand filtration, adsorption, ion exchange, membranes, dissolved air flotation, disinfection; and biological wastewater treatment such as activated sludge, trickling filters, and anaerobic digestion. Most of the lectures consist of theoretical background and application exercises. The module assessment consists of a written-exam (80%) and a laboratory report (20%). Laboratory report is usually done by a group of two students. A site visit to a treatment plant is usually arranged for Reading week, however, attendance is not compulsory.

Learning Outcomes:
- To explain the aims of water and wastewater treatment
- To explain the importance of drinking water and discharge standards
- To identify and explain the main physical, chemical and biological processes for water and wastewater treatment
- To understand the main design criteria and operational parameters for water and wastewater treatment processes
- To determine the dimensions of basic treatment units

Key information
- Year: 2020/21
- Credit value: 15 (150 study hours)
- Delivery: UGM L7, Campus-based
- Reading List: View on UCL website
- Tutor: Dr Luiza Campos
- Term: Term 1
- Timetable: View on UCL website

Assessment
- Written examination (main exam period): 80.0%
- Coursework: 20.0%

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 March 2020. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.