

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	2019/20
Credit value	15 (150 study hours)
Delivery	UG L6, Campus-based
Reading List	View on UCL website
Tutor	Dr Luiza Campos
Term	Term 1
Timetable	View on UCL website

Assessment

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

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Year	2019/20
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