Fluid Particle Systems (CENG0024)

Description

Aims:
This course is designed to convey the fundamentals of fluidization and crystallization and their applications to industrial scale units and sustainable development.

Learning Outcomes:
On completion, students are expected:

- to be able to formulate realistic differential equation descriptions of multiphase systems;
- to have an understanding of the two-phase nature of gas-solid fluidized beds and of how to apply their basic quantitative features to the design of reactors;
- to be able to apply methods to analyse the characteristics and performance of particulate crystal formation systems and to design crystallization equipment.

Synopsis:

- Crystallization processes and crystallizers. The population balance equation and crystallizer design.

Key information

Year 2019/20
Credit value 15 (150 study hours)
Delivery PGT L7, Campus-based
Reading List View on UCL website
Tutor Dr Luca Mazzei
Term Term 2
Timetable View on UCL website

Assessment

- Written examination (main exam period): 80%
- Coursework: 20%

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.
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