

COURSE DETAIL

DISTRIBUTED SYSTEMS

Country

Ireland

Host Institution

University College Dublin

Program(s)

University College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

145

UCEAP Course Suffix**UCEAP Official Title**

DISTRIBUTED SYSTEMS

UCEAP Transcript Title

DISTRIBUTED SYSTEMS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

Distribution is a key technology for constructing systems that can scale to meet high demand (such as web applications) or which are required to operate over large geographical areas (such as sensor networks). Understanding how to do this effectively is an important challenge in computer science, especially given the continued emergence of systems that are required to handle millions of concurrent users where fluctuations in demand require the addition or removal of hundreds of servers at any point in time. This course explores this space from a practical perspective. Students learn about and use a range of distribution techniques. They explore the state-of-the-art and key theoretical issues by reviewing academic articles on some of the most successful solutions and presenting their findings to their peers. A final project allows the students to apply these techniques through the development of a significant application.

Language(s) of Instruction

English

Host Institution Course Number

COMP30220

Host Institution Course Title

DISTRIBUTED SYSTEMS

Host Institution Course Details

https://sisweb.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=COMP30220

Host Institution Campus

Host Institution Faculty

School of Computer Science

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

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