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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