COURSE DETAIL

CONCURRENT SYSTEMS AND OPERATING SYSTEMS
Country Ireland
Host Institution Trinity College Dublin
Program(s) Trinity College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 103
UCEAP Course Suffix
UCEAP Official Title CONCURRENT SYSTEMS AND OPERATING SYSTEMS
UCEAP Transcript Title CONCURRENT & OP SYS
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description
The first part of this course introduces students to concurrency and concurrent programming. Students learn to develop concurrent software systems using standard techniques and constructs. To achieve this, students must have a thorough understanding of common problems that arise in concurrent systems and how those problems can be avoided. This course teaches the use of tools and techniques for modeling and verifying the correctness of concurrent systems, applying this through practical laboratory exercises in which small concurrent software systems are developed. The second part of the course addresses various aspects of the design of modern operating systems. Students explore how programmers can apply a knowledge of operating system features to the design of efficient applications. This is achieved by examining common algorithms and policies used by modern operating systems, as well as the facilities provided to application programmers. This knowledge is then applied in laboratory exercises.

Language(s) of Instruction
English

Host Institution Course Number
CS2016

Host Institution Course Title
CONCURRENT SYSTEMS AND OPERATING SYSTEMS

Host Institution Course Details
https://www.tcd.ie/students/orientation/visiting-exchange/module-directory/Comp…

Host Institution Campus
Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science and Statistics

Course Last Reviewed
2018-2019

Print