

COURSE DETAIL

DISTRIBUTED SYSTEMS AND COMPUTING

Country

Singapore

Host Institution

Singapore University of Technology and Design

Program(s)

Singapore University of Technology and Design

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

DISTRIBUTED SYSTEMS AND COMPUTING

UCEAP Transcript Title

DISTRIBUTED SYSTEMS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces fundamental concepts for designing and implementing large-scale distributed systems. The course not only focuses on the design aspects of distributed systems, but also on the fundamental principles to ensure the correctness in a distributed environment. Students apply the concepts via hands on assignments using GO programming language. The course also examines specific concepts of distributed systems e.g. designing distributed file systems (such as in Google File Systems) to accommodate arbitrarily many application-level users. Finally, it discusses concepts on recovering from faults (both normal and byzantine) in a distributed system.

Language(s) of Instruction

English

Host Institution Course Number

50.041

Host Institution Course Title

DISTRIBUTED SYSTEMS AND COMPUTING

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Information Systems Technology and Design

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