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 Course Details
https://istd.sutd.edu.sg/undergraduate/courses/50041-distributed-systems-comput...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Information Systems Technology and Design

Course Last Reviewed
2023-2024

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