COURSE DETAIL

SCALABLE SYSTEMS AND DATA
Country United Kingdom - England
Host Institution Imperial College London
Program(s) Imperial College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 175
UCEAP Course Suffix
UCEAP Official Title SCALABLE SYSTEMS AND DATA
UCEAP Transcript Title SCALABLE SYS & DATA
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

The course provides an overview of data center technologies, the infrastructure needed to run a variety of workloads, and the design decisions when engineering scalable distributed applications. Students analyze the full system stack for managing and scheduling data-center resources. Further, they discuss the design principles for scalable systems; investigate concepts and techniques to build large scale systems, with a focus on distributed storage, coordination, computation and resource allocation. They get an overview of NewSQL and NoSQL technologies, learn new data models, their associated query languages and systems, and discuss new storage technology and its impact on query execution and data management systems in general.

Language(s) of Instruction
English

Host Institution Course Number
COMP70022

Host Institution Course Title
SCALABLE SYSTEMS AND DATA

Host Institution Course Details
https://www.imperial.ac.uk/computing/current-students/courses/70022/

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computing

Course Last Reviewed
2024-2025

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