COURSE DETAIL

ADVANCED COMPUTER SYSTEMS

Country
Denmark

Host Institution
University of Copenhagen

Program(s)
University of Copenhagen

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
147

UCEAP Course Suffix

UCEAP Official Title
ADVANCED COMPUTER SYSTEMS

UCEAP Transcript Title
ADV COMP SYSTEMS

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course offers an understanding of techniques in computer systems with a focus on correctness and adherence to system properties, such as modularity and atomicity, while at the same time achieving high performance. It highlights various system mechanisms, especially from distributed systems, database systems, and network systems. Topics include system abstractions and design principles; modularity with clients and services; performance; atomicity and transactions; concurrency control and recovery; reliability, fault-tolerance, and redundancy; distributed protocols for replication; and large-scale data processing. Prerequisites include basic principles of operating systems and/or databases and working knowledge of a standard programming language (Java, C#), including concurrency and communication mechanisms.

Language(s) of Instruction
English

Host Institution Course Number
NDAK15006U

Host Institution Course Title
ADVANCED COMPUTER SYSTEMS

Host Institution Course Details
https://kurser.ku.dk/course/ndak15006u/2024-2025

Host Institution Campus

Host Institution Faculty
Science

Host Institution Degree
Master

Host Institution Department

Computer Science

Course Last Reviewed

2024-2025

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