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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