COURSE DETAIL

ADVANCED ALGORITHMS AND DATA STRUCTURES

Country
Denmark

Host Institution
University of Copenhagen

Program(s)
University of Copenhagen

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics Computer Science

UCEAP Course Number
166

UCEAP Course Suffix

UCEAP Official Title
ADVANCED ALGORITHMS AND DATA STRUCTURES

UCEAP Transcript Title
ALGORITHMS&DATA

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course covers the following topics: graph algorithms such as max flow; data structures such as van Emde Boas Trees; NP-completeness; exponential and parameterized algorithms for NP-hard problems; approximation algorithms; randomized algorithms; computational geometry; linear programming and optimization.

Language(s) of Instruction
English

Host Institution Course Number
NDAA09023U

Host Institution Course Title
ADVANCED ALGORITHMS AND DATA STRUCTURES

Host Institution Course Details
https://kurser.ku.dk/course/ndaa09023u/2025-2026

Host Institution Campus

Host Institution Faculty
Science

Host Institution Degree
Master

Host Institution Department
Computer Science

Course Last Reviewed
2025-2026

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