

COURSE DETAIL

DESIGN AND ANALYSIS OF ALGORITHMS

Country

Hong Kong

Host Institution

University of Hong Kong

Program(s)

University of Hong Kong

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

125

UCEAP Course Suffix**UCEAP Official Title**

DESIGN AND ANALYSIS OF ALGORITHMS

UCEAP Transcript Title

ANALYSIS ALGORITHMS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The course studies various algorithm design techniques, such as divide and conquer, and dynamic programming. These techniques are applied to design highly non-trivial algorithms from various areas of computer science. Topics include: advanced data structures; graph algorithms; searching algorithms; geometric algorithms; overview of NP-complete problems. Assessment: final exam, continuous assessment.

Language(s) of Instruction

English

Host Institution Course Number

COMP3250/CSIS0250

Host Institution Course Title

DESIGN AND ANALYSIS OF ALGORITHMS

Host Institution Course Details**Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Computer Science

Course Last Reviewed

2023-2024

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