COURSE DETAIL

ALGORITHM ANALYSIS

Country
Korea, South

Host Institution
Yonsei University

Program(s)
Yonsei University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
110

UCEAP Course Suffix

UCEAP Official Title
ALGORITHM ANALYSIS

UCEAP Transcript Title
ALGORITHM ANALYSIS

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description
An algorithm is a well-defined mechanical procedure that solves a computational problem (Cormen et al., 1990). This course introduces students to elementary algorithm design techniques including divide and conquer, dynamic programming, greedy algorithms, and network flow, together with the mathematical proof techniques used to establish the correctness of algorithms. The course also covers NP-completeness. Textbook: J. Kleinberg and E. Tardos, ALGORITHM DESIGN. Prerequisites: Data Structure, DISCRETE MATHEMATICS

Language(s) of Instruction
English

Host Institution Course Number
CSI3108

Host Institution Course Title
ALGORITHM ANALYSIS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science

Course Last Reviewed
2024-2025

Print