COURSE DETAIL

INTRODUCTION TO ALGORITHMS

Country
China

Host Institution
Tsinghua University

Program(s)
Tsinghua University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
110

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO ALGORITHMS

UCEAP Transcript Title
INTRO ALGORITHMS

UCEAP Quarter Units
3.00

UCEAP Semester Units
2.00

Course Description

This course is an introduction to algorithms. Lectures are about the fundamental skills of algorithm design and analysis. The course will teach the students how to analysis the asymptotic performance of algorithms with the growth of functions, as well as the probabilistic analysis and amortized analysis. Basic algorithm design skills such as divide-and-conquer, dynamic program functions and greedy algorithm are also included. Some specific topics, such as sorting algorithms, string matching algorithms, NP completeness theory and approximation algorithms will also be discussed.

Language(s) of Instruction
Chinese

Host Institution Course Number
44100582

Host Institution Course Title
INTRODUCTION TO ALGORITHMS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
School of Software

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