COURSE DETAIL

DATA STRUCTURE

Country
China

Host Institution
Fudan University

Program(s)
Fudan University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
127

UCEAP Course Suffix

UCEAP Official Title
DATA STRUCTURE

UCEAP Transcript Title
DATA STRUCTURE

UCEAP Quarter Units
3.00

UCEAP Semester Units
2.00

Course Description

This course examines common data structures and their implementation, including stack, queue, string, binary tree, tree and graph; common retrieval, indexing and sorting methods, including linear table, hash table, inverted file, B-tree and other common retrieval and indexing technologies, insertion sorting, shell sorting, heap sorting, quick sorting, cardinal sorting and other common sorting algorithms and their time and space overhead; common algorithms and their implementation, including divide and conquer, recursion, backtracking, greedy method.

Language(s) of Instruction
Chinese

Host Institution Course Number
INFO130327

Host Institution Course Title
DATA STRUCTURE

Host Institution Course Details

Host Institution Campus

Host Institution Faculty
Xu Yuedong

Host Institution Degree

Host Institution Department
Information Science

Course Last Reviewed
2021-2022

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