COURSE DETAIL

ALGORITHMS
Country Singapore
Host Institution Singapore University of Technology and Design
Program(s) Singapore University of Technology and Design
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 65
UCEAP Course Suffix
UCEAP Official Title ALGORITHMS
UCEAP Transcript Title ALGORITHMS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces algorithms and algorithmic thinking. Students examine common algorithms, algorithmic paradigms, and data structures that can be used to solve computational problems. Emphasis is placed on understanding why algorithms work, and how to analyze the complexity of algorithms. Students learn the underlying thought process on how to design their own algorithms, including how to use suitable data structures and techniques such as dynamic programming to design algorithms that are efficient. The course includes a prerequisite.

Language(s) of Instruction
English

Host Institution Course Number
50.004

Host Institution Course Title
ALGORITHMS

Host Institution Course Details
https://www.sutd.edu.sg/course/50-004-algorithms

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Information Systems and Technology Design

Course Last Reviewed
2025-2026

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