

COURSE DETAIL

COMPUTER ORGANIZATION

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

107

UCEAP Course Suffix**UCEAP Official Title**

COMPUTER ORGANIZATION

UCEAP Transcript Title

COMPUTER ORGANIZATN

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course teaches the fundamentals of computing devices. The course covers basics of data representation and how the various parts of a computer work, separately and with each other. This provides understanding of the issues in computing devices, and how these issues affect the implementation of solutions. Topics covered include data representation systems, combinational and sequential circuit design techniques, assembly language, processor execution cycles, pipelining, memory hierarchy and input/output systems.

Language(s) of Instruction

English

Host Institution Course Number

CS2100

Host Institution Course Title

COMPUTER ORGANIZATION

Host Institution Campus**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Computer Science

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