

COURSE DETAIL

MICROCOMPUTERS AND EMBEDDED SYSTEMS

Country

New Zealand

Host Institution

University of Auckland

Program(s)

University of Auckland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

133

UCEAP Course Suffix**UCEAP Official Title**

MICROCOMPUTERS AND EMBEDDED SYSTEMS

UCEAP Transcript Title

MICROCOMP& EMBD SYS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines for embedded system design using the SOPC (system on a programmable chip) approach. It covers embedded applications, microprocessors, microcontrollers, architecture, organization, programming memories, I/O interfacing, sensors, actuators, analog interfaces, hardware/software partitioning and interfacing, concurrency, and implementing data transformations and reactivity.

Language(s) of Instruction

English

Host Institution Course Number

COMPSYS 303

Host Institution Course Title

MICROCOMPUTERS AND EMBEDDED SYSTEMS

Host Institution Course Details

https://study.auckland.ac.nz/ords/r/uoa/catalogue/course?p6_code=COMPSYS%20303&...

Host Institution Campus

Auckland

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Systems Engineering

Course Last Reviewed

2026-2027

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