COURSE DETAIL

COMPUTER FUNDAMENTALS AND PROGRAMMING
Country United Kingdom - England
Host Institution Imperial College London
Program(s) Imperial College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Bioengineering
UCEAP Course Number 103
UCEAP Course Suffix
UCEAP Official Title COMPUTER FUNDAMENTALS AND PROGRAMMING
UCEAP Transcript Title COMP FUNDMT & PROGM
UCEAP Quarter Units 10.00
UCEAP Semester Units 6.70

Course Description

This course instils the principles of digital logic design and computer fundamentals. It provides a basis for students to understand what happens inside digital computers and how they communicate with the real world. It illustrates how both digital computers and complex medical instrumentation are built up from simple logic circuit elements. It relates logic and digital systems to the fundamentals of computer programming. Lastly, it provides the basic skills of programming in the ANSI C language and Matlab to convey a sense of the professionalism required of programmers in order to write reliable C code for safety-critical applications, such as medicine.

Language(s) of Instruction
English

Host Institution Course Number
BIOE40002

Host Institution Course Title
COMPUTER FUNDAMENTALS AND PROGRAMMING 1

Host Institution Course Details
https://www.imperial.ac.uk/study/courses/undergraduate/biomedical-engineering/

Host Institution Campus
South Kensington

Host Institution Faculty

Host Institution Degree

Host Institution Department
Bioengineering

Course Last Reviewed

2023-2024

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