COURSE DETAIL

MICROELECTRONICS WITH DESIGN AND MANUFACTURING 3
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 137
UCEAP Course Suffix
UCEAP Official Title MICROELECTRONICS WITH DESIGN AND MANUFACTURING 3
UCEAP Transcript Title MICROELECTRONICS 3
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description

This course provides students with an in-depth understanding of electronic device operation as well as the fabrication techniques used in their manufacture, and it introduces students to the design and manufacture of electronic products and the importance of quality control and design for manufacture. It covers the basics of semiconductor physics, the important building blocks of the p-n junction and MOS capacitor, and the operation and fabrication of MOS and bipolar transistors. Students are also introduced to electronics industry relevant materials relating to product design and manufacture as well as the important developments that are driving future technologies.

Language(s) of Instruction
English

Host Institution Course Number
ELEE09034

Host Institution Course Title
MICROELECTRONICS WITH DESIGN AND MANUFACTURING 3

Host Institution Course Details
http://www.drps.ed.ac.uk/24-25/dpt/cxelee09034.htm

Host Institution Campus
Edinburgh

Host Institution Faculty
School of Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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