

# COURSE DETAIL

## ELECTRONIC CIRCUITS

**Country**

Ireland

**Host Institution**

University College Dublin

**Program(s)**

University College Dublin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

120

**UCEAP Course Suffix****UCEAP Official Title**

ELECTRONIC CIRCUITS

**UCEAP Transcript Title**

ELECTRONIC CIRCUITS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course deals with the analysis and design of electronic circuits containing diodes and transistors. Topics that are covered include physical operation and modeling of diodes (pn junction diode, zener diode) and transistors (MOSFET, BJT); DC analysis, large-signal and small-signal analysis of basic electronic circuits containing diodes and transistors; and design of basic electronic circuits, including simulation and laboratory exercises.

## Language(s) of Instruction

English

## Host Institution Course Number

EEEN20040

## Host Institution Course Title

ELECTRONIC CIRCUITS

## Host Institution Campus

University College Dublin

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Engineering

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