

COURSE DETAIL

INTRODUCTION TO ELECTRICAL ENGINEERING

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

104

UCEAP Course Suffix

E

UCEAP Official Title

INTRODUCTION TO ELECTRICAL ENGINEERING

UCEAP Transcript Title

INTRO ELEC ENGR

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course explores the purposes and operation of analog and digital electronic systems. Topics include: electronic signals and systems; electronic instrumentation-- sensors and transducers; amplifiers and analog electronic subsystems; electronic components and integrated circuits; digital electronic subsystems and analog-to-digital (A/D) and digital-to-analog (D/A) conversion; power systems and energy conversion. *Previous coursework in Calculus 1, Calculus 2, Physics are required. Completion of Fundamentals of Electrical Engineering is strongly recommended. Texts: Thomas L. Floyd.. Digital Fundamentals. Pearson Prentice Hall.. Thomas L. Floyd.. Electronic Devices. Pearson Prentice Hall.. Thomas L. Floyd.. Electric Circuits Fundamentals . Pearson Prentice Hall..

Language(s) of Instruction

English

Host Institution Course Number

15079

Host Institution Course Title

FUNDAMENTOS DE INGENIERÍA ELECTRÓNICA

Host Institution Course Details

Host Institution Campus

Escuela Politécnica Superior. (Leganés)

Host Institution Faculty

Host Institution Degree

Host Institution Department

Tecnología Electrónica

Course Last Reviewed

[Print](#)