COURSE DETAIL

ELECTRONIC CIRCUITS

Country KOREA, SOUTH

Host Institution Yonsei University

Program(s) Yonsei University

UCEAP Course Level Upper Division

UCEAP Subject Area(s) Electrical Engineering

UCEAP Course Number 103

UCEAP Course Suffix

UCEAP Official Title ELECTRONIC CIRCUITS

UCEAP Transcript Title ELECTRONIC CIRCUITS

UCEAP Quarter Units 4.50

UCEAP Semester Units 3.00

Course Description

This course provides basic understanding of active elements and how to analyze/design analog circuits. Starting from basic device physics, this course covers fundamentals of micro electronics such as, PN Junction, BJT, MOS transistor and analog circuit design (Small signal analysis and basic amplifier configurations). Topics include basic physics of semiconductor, physics of bipolar transistor, bipolar amplifier, operational amplifier, cascode stage and current mirror, and digital circuit. Textbook: Razavi, FUNDAMENTAL OF MICROELECTRONICS. Prerequisite: Basic circuit theory

Language(s) of Instruction English

Host Institution Course Number EEE2050

Host Institution Course Title ELECTRONIC CIRCUITS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department Electrical and Electronics Engineering

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