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 Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical and Electronics Engineering

Course Last Reviewed

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