COURSE DETAIL

ELECTRONIC CIRCUITS
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 115
UCEAP Course Suffix
UCEAP Official Title ELECTRONIC CIRCUITS
UCEAP Transcript Title ELECTRONIC CIRCUITS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

Building on basic circuit concepts, this course introduces the operating principles of transistors and how they are used in amplifier circuits. It discusses the foundational concepts of transistor amplifiers and analyses their performance. It also introduces operational amplifiers as a circuit component and describes how functional analog circuits, which can be applied to solving complex engineering problems, can be designed and analyzed using operational amplifiers. LTSpice is introduced as a circuit analysis tool. To augment learning, two laboratory sessions are included focusing on the topics of single transistor amplifiers and Op-Amp circuits, respectively.

Language(s) of Instruction
English

Host Institution Course Number
EE2027

Host Institution Course Title
ELECTRONIC CIRCUITS

Host Institution Course Details
https://luminus.nus.edu.sg/modules/7651ff14-83e8-4989-bb42-b00ef3d49003/details...

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical and Computer Engineering

Course Last Reviewed
2022-2023

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