COURSE DETAIL

PHYSICAL ELECTRONICS
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 110
UCEAP Course Suffix
UCEAP Official Title PHYSICAL ELECTRONICS
UCEAP Transcript Title PHYSICL ELECTRONICS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course develops the ability to understand various physical properties of electronic materials (e.g., semiconductors). Topics include elementary materials science concepts, kinetic molecular theory, thermal process, defects, classical theory of conduction, hall effect and thermal conduction, quantum physics, Schrodinger equation, microscopic physics, modern theory of solid, electronic statistics, waves as a particle, semiconductor fundamentals, conductivity, diffusion and optical properties, and devices.

Language(s) of Instruction
English

Host Institution Course Number
EEE3210

Host Institution Course Title
PHYSICAL ELECTRONICS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical & Electronics Engineering

Print