

## 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 Course Details

[http://ysweb.yonsei.ac.kr:8888/curri120601/curri\\_pop2.jsp?hakno=EEE3210&bb=01&s...](http://ysweb.yonsei.ac.kr:8888/curri120601/curri_pop2.jsp?hakno=EEE3210&bb=01&s...)

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Electrical & Electronics Engineering

## Course Last Reviewed

2021-2022

[Print](#)