

# COURSE DETAIL

## POWER ELECTRONICS

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

104

**UCEAP Course Suffix****UCEAP Official Title**

POWER ELECTRONICS

**UCEAP Transcript Title**

POWER ELECTRONICS

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces the basics of power electronics. It takes a flipped-learning approach that involves pre-class, in-class and post-class activities. Problem sets and online simulation problems are used to solidify the concepts covered in the course and exams are utilized to evaluate students' understanding. The primary goal of the course is to finish the semester with a clear understanding of how various power converters operate and how they relate to real applications.

## Language(s) of Instruction

English

## Host Institution Course Number

EE4010

## Host Institution Course Title

INTRODUCTION TO POWER ELECTRONICS

## Host Institution Course Details

[https://nol.ntu.edu.tw/nol/coursesearch/print\\_table.php?course\\_id=901%2024120&c...](https://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=901%2024120&c...)

## Host Institution Campus

## Host Institution Faculty

College of Electrical Engineering and Computer Science

## Host Institution Degree

## Host Institution Department

Department of Electrical Engineering

## Course Last Reviewed

2023-2024

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