

# COURSE DETAIL

## INTRODUCTION TO 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**

111

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

INTRODUCTION TO POWER ELECTRONICS

**UCEAP Transcript Title**

POWER ELECTRONICS

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This upper-level course introduces the basics of power electronics through a flipped-learning approach that involves pre-class, in-class, and post-class activities. To solidify the concepts covered in the course, a number of problem sets, online simulation problems, and exams will be assigned to assess students' understanding. The primary goal of the course is for students 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 Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Electrical Engineering

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