

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

POWER ELECTRONICS

Host Institution Campus

Host Institution Faculty

College of Electrical Engineering and Computer Science

Host Institution Degree

Host Institution Department

Department of Electrical Engineering

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