

99-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	電力電子電路	Serial No. / ID	0724 / EEI4162
Dept.	電機工程學系	School System / Class	大學日間部4年1班
Lecturer	黃登淵	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	Yes
Time / Place	(三)4 / H367 (四)34 / H371	Language	Chinese

Introduction
Power electronics focuses on the technique of power transformation and its related control. This course emphasizes on teaching students in understanding the properties of electronic devices, the technique of circuit analysis, and the design of various electronic converters.

Outline
Principles of Electrical Power Diode Rectifier Circuits Phase-Controlled Rectifier Circuits Introduction to DC-DC Converters: The Buck Converter General Theory of Two-Level DC-DC Converters: Boost and Buck/Boost Converters Dynamic Modeling and Simulation of DC-DC Converters Inverters: Converting DC to AC

Prerequisite
Electric circuits Electronics