Kingdom of Saudi Arabia
Ministry of Education
University of Bisha
College of Engineering
Dept. of Electrical Engineering



المملكة العربية السعودية وزارة التعليـــــم جامعة بيشة

> كلية الهندسة قسم الهندسة الكهربائية

Course Syllabus

Course Code and Name	EE 26452 – Power Electronics
Credit and contact hours	3 (2, 1, 1) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (7) / Year (4)
Course Prerequisite	EE 26231 Fundamental of Electronic Devices
Textbook	M. Rashid, "Power Electronics Handbooh", 4th Ed., Butterworth-Heinemann, 2017.
Course Description	This course covers the following topics: Power Electronic Devices – Power conversion - Diode rectifiers – Thyristors – Controlled rectifiers – DC-DC converters (Choppers) – Inverters – AC-AC Converters - AC voltage controllers - Cycloconverters – Gate circuits.
Brief List of Topics to be Covered	 Power Electronics Devices. Power conversion - Diode rectifiers. Thyristors (construction and application). Controlled rectifiers – DC-DC converters. AC voltage controllers – Cycloconverters. Inverters (DC-AC converters). AC-AC Converters
Course is prerequisite for	EE26564 Electric Drive Systems