

Power electronics [3 – 0 – 1]	Course #:0904428	Prereq.: 0904328+0904204
<p>Introduction to PE, applications of PE, classification of Power conditioners; Power semiconductor devices: classification; V-I and switching characteristics; basic drive circuits and applications; line commutated converters; single-phase rectifiers: half-wave and full-wave rectifiers with freewheeling diodes; 3-phase half-wave and full-wave rectifiers; single-phase and 3-phase controlled and uncontrolled rectifiers; performance of rectifiers circuits; introduction to AC/AC controllers; phase voltage controller; cycloconverters; basics of DC-to-DC converters (choppers). Basics of DC-to-AC converters (inverters)</p>		