**EEPE6354 - Power Electronics**

**EEPE 6354** Power Electronics (3 semester credit hours) Power Electronics and applications; Review of power devices including wide band gap devices. Harmonics and power factor in non-sinusoidal systems. AC-DC Phase Controlled Thyristor Converters. DC-DC converters: Buck, Boost, and Buck-Boost converters. Flyback, Cuk, and Full bridge converters. DC-AC Inverters: Square wave, Sinusoidal, Space Vector PWM, and current regulated inverters. Introduction to Active Rectifiers, Resonant Converters, and Multi-level converters. Introduction to AC motor Drives Systems and control. Prerequisite: EE 3311. (3-0) Y (2016-02-06 00:37:21)