

EE3203: Power Electronics Laboratory

List of Experiments

1. Familiarization of dSPACE and TMS microcontrollers.
2. Study of 1-phase and 3-phase diode rectifiers with capacitive filter.
3. Study the switching characteristics of IGBT.
4. Study of DC-DC Buck converter.
5. Study of DC-DC Boost converter.
6. Study of 1-phase full-bridge Inverter.
7. Study of 3-phase full-bridge Inverter for resistive load by operating in 120° and 180° conduction modes.
8. Study of 3-phase full-bridge Inverter for induction motor by using SPWM.