

Lab Practice - II (404207)

Advanced Power Electronics and Elective I

Teaching Scheme:
Practical: 4 Hrs/week

Examination Scheme: PR: 50Marks
TW:50Marks

Advanced Power Electronics

Experiments:

1. Study of Dual converter (Single phase/ Three phase)
2. Power Factor improvement techniques for single phase converters (SAC/EAC/PWM)
3. Study of Cycloconverter
4. Feedback Controlled DC Motor Drive
5. Chopper fed 4-Quadrant reversible DC drive
6. V/F controlled AC induction motor drive
7. Speed Control of Universal Motor.
8. Simulation of closed loop controlled DC drive using PSIM/Matlab/MathCad/any open source software
9. Simulation of AC drive using PSIM / Matlab/MathCad
10. Case Study/ Industrial Visit.

Elective I

Experiments to be chosen based on Elective I.