



STANLEY
COLLEGE OF ENGINEERING & TECHNOLOGY FOR WOMEN
(Approved by AICTE, New Delhi | Affiliated to Osmania University ,Hyderabad)
Address : Chapel Road, Abids ,Hyderabad

EE 382

POWER ELECTRONICS LAB

(Common to IE & EEE)

LIST OF EXPERIMENTS:

1. S.C.R. BJT, MOSFET and IGBT Characteristics.
2. Gate triggering circuits for SCR, BJT, MOSFET and IGBT using R, RC, UGT and IC's.
3. Single phase step down cyclo converter with Rand RL loads.
4. A.C voltage controllers with R and RL loads.
5. Study of forced commutation techniques.
6. Two quadrant D.C drive.
7. Bridge rectifiers -half control and full control with Rand RL loads.
8. Simulation of Single Phase Full converter and Semi converter.
9. Simulation of Single Phase & Three Phase Inverter.
10. Buck and Boost choppers.
11. Study of 1 kVA UPS and SMPS For variable voltage with constant load,
Constant voltage with variable load.
12. V/f control of AC drive.
13. Single phase inverter with R and RL Load

Note: At least 10 Experiments Should Be Conducted In The Semester.