EC 241

ELECTRONIC ENGINEERING LAB - I
(Common to EEE and IE)

Experiments on the following :

1.Comparison of semiconductor diodes (Ge, Si and Zener)

2.Static Characteristics of BJT (CE)

3.Static Characteristics of BJT (CB)

4.Static Characteristics of FET (CS)

5.Design of Half wave and Full wave Rectifier without filters

6.Design of rectifiers with C, L, LC & Pi-filters

7.Static characteristics of SCR

8.Static characteristics of UJT

9.Measurement of phase, frequency and sensitivity with CRO

10.Biasing of BJT and FET

11.RC coupled amplifier BJT frequency response

12.RC coupled amplifier FET frequency response

13.Emitter Follower

14.Source Follower

15.Cascaded Amplifiers

Suggested Reading:

1.Paul B. Zbar, Albert P. Malvino, Michael A.Miller, *Basic Electronics, A Text. Lab Manual*,7th Edition, TMH, 1994.

2.S.Poorna Chandra, B.Sasikala, *Electronics Laboratory Primer, A design approach*, Wheeler publishing, 1998.

General Note:

i)There should not be more than 2 students per batch while performing any of the lab experiment.

ii)Mini Project cum design exercise:

a)The students must design, rig-up, and test the circuits wherever possible and should carry out the experiments individually.

b)This exercise carries sessional marks of 10 out of 25, while the remaining 15 marks are for the remaining lab exercises.