Course Name Analog Electronic Circuits Laboratory

Course Code EC(EE)391

Course Credit 2

Contact Hour 3P

Prerequisite Knowledge in Elements of Electronics Engineering

Course Objective

The objectives of this course are

Students are motivated to design and analyze different electronic circuits. Students can achieve the ability to verify their design practically and compare with the theoretical result

Course Outcome

On completion of the course students will be able to

1. Design Different Electronic Circuits and check their functionality.
2. Design different electronic subsystems using the devices
3. Check the properties of amplifiers and decide to apply them in proper field.
4. Handle different equipments related to the experiments.
5. Perform different real time projects.

CO Mapping with departmental POs

H: High, M: Medium, L: Low

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	H	H	M			L	L		H	L		H
CO 2	H	M	M		M	L	M		H	M		H
CO 3	H	M	H		M	H	H		H	M		H
CO 4	M	H		M					M	L		H
CO 5	H	H	L		L	L	M		M	H		H

Course Content

List of experiments

1. Study of Diode as clipper & clamper
2. Study of Zener diode as a voltage regulator
3. Study of ripple and regulation characteristics of full wave rectifier without and with capacitor filter
4. Design a two-stage R-C coupled amplifier & study of it's gain & Bandwidth.
5. Study of class A & class B power amplifiers.
6. Study of timer circuit using NE555 & configuration for monostable & astable multivibrator.
7. Study of Switched Mode Power Supply & construction of a linear voltage regulator using regulator IC chip.
8. Design a simple function generator using IC.
9. Study of D.A.C & A.D.C. 10.Study on Integrator using OPAMP IC 741 11.Study on Differentiator using OPAMP IC 741