LESSON PLAN

DEPARTMENT OF ELECTRICAL ENGINEERING, ITT, CHOUDWAR

SUBJECT: AE LAB

Periods: 3 per week

SEMESTER: 4TH

NAME OF FACULTY: Mr.T R Sahoo & S. PATTNAIK

No. of weeks: 15

Week	Class	Theory Topics
1 st	1st	Determine the input and output Characteristics of CE & CB transistor
		configuration
2 nd	2^{nd}	Determine Drain & Transfer Characteristics of JFET
3 rd	3 rd	Construct Bridge Rectifier using different filter circuit and to determine
		Ripple factor & analyze wave form with filter & without filter.
4 th	4 th	Construct Bridge Rectifier using different filter and to determine Ripple
		factor.
5 th	5 th	Construct & test the regulator using Zener diode
6 th	6 th	Construct different types of biasing circuit and analyze the wave form (i)
		Fixed bias (ii) Emitter bias (iii) Voltage divider bias
7 th	7 th	Study the single stage CE amplifier & find Gain
8 th	8 th	Study multi stage R-C coupled amplifier & to determine frequency-
		response & gain.
9 th	9^{th}	Construct & Find the gain (I) Class A. Amplifier (ii) Class B. Amplifier (iii)
		Class C Tuned Amplifier
10 th	10 th	Construct & test push pull amplifier & observer the wave form
11 th	11 th	Construct & calculate the frequency of (i) Hartly Oscillator (ii) Collpit's
		Oscillator and draw wave form & calculate the frequency
12 th	12 th	Construct & calculate the frequency of (iii) Wein Bridge Oscillator (iv) R-C
		phase shift oscillator and draw wave form & calculate the frequency
13 th	13 th	Construct & Test Differentiator and Integrator using R-C Circuit
14 th	14 th	Study of Multivibrator (Astable, Monstable) Circuit & Draw its Wave
		forms
15 th	15 th	Study of Bistable Multivibrator Circuit & Draw its Wave forms

Teaching Faculty