

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN Session(2023-2024)

Discipline : Electrical Engineering	Semester : 4 th Summer/2024	Name of the Faculty : Dr. Binodini Tripathy Assistant Professor Email ID : binodinifet@kp.kiit.ac.in
Subject : Analog Electronics Lab	No. of Days/Week: 01 (3 periods/Day) Experiments will be performed in small groups of 5 students.	Start Date : 16/01/2024 End Date : 26/04/2024

Week	Class Day	Practical Topics
1st	1st	Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter.
	2nd	Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter.
2nd	1st	Construct Bridge Rectifier using different filter and to determine Ripple factor.
	2nd	Construct Bridge Rectifier using different filter and to determine Ripple factor.
3rd	1st	Construct & test the regulator using Zener diode

	2nd	Construct & test the regulator using Zener diode
4th	1st	Repeat class/Defaulter
	2nd	Repeat class/Defaulter
5th	1st	Construct different types of biasing circuit and analyze the wave form (i) Fixed bias (ii) Emitter bias (iii) Voltage divider bias
	2nd	Construct different types of biasing circuit and analyze the wave form (i) Fixed bias (ii) Emitter bias (iii) Voltage divider bias
6th	1st	Determine the input and output Characteristic of CE & Common base configuration
	2nd	Determine the input and output Characteristic of CE & Common base configuration
7th	1st	Study the single stage CE amplifier & find Gain
	2nd	Study the single stage CE amplifier & find Gain
8th	1st	Study multi stage R-C coupled amplifier & to determine frequency- response & gain
	2nd	Study multi stage R-C coupled amplifier & to determine frequency- response & gain
9th	1st	<ul style="list-style-type: none"> • Construct & Find the gain Class A. Amplifier , Class B. Amplifier ,Class C Tuned amplifier • Construct & test push pull amplifier & observer the wave form
	2nd	<ul style="list-style-type: none"> • Construct & Find the gain Class A. Amplifier , Class B. Amplifier ,Class C Tuned amplifier • Construct & test push pull amplifier & observer the wave form
10th	1st	Repeat class/ Defaulter for experiment 5,6,7,8
	2nd	Repeat class/ Defaulter for experiment 5,6,7,8

11th	1st	Construct & calculate the frequency of (i) Hartly Oscillator (ii) Collpit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift oscillator and draw wave form & calculate the frequency
	2nd	Construct & calculate the frequency of (i) Hartly Oscillator (ii) Collpit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift oscillator and draw wave form & calculate the frequency
12th	1st	Construct & Test Differentiator and Integrator using R-C Circuit
	2nd	Construct & Test Differentiator and Integrator using R-C Circuit
13th	1st	<ul style="list-style-type: none"> • Determine Drain & Transfer Characteristics of JFET • Study Multivibrator (Astable, Bistable, Monstable) Circuit & Draw its Wave forms
	2nd	<ul style="list-style-type: none"> • Determine Drain & Transfer Characteristics of JFET • Study Multivibrator (Astable, Bistable, Monstable) Circuit & Draw its Wave forms
14th	1st	Repeat class for experiment 9,10,11,12,13
	2nd	Repeat class for experiment 9,10,11,12,13
15th	1st	Practice Test
	2nd	Practice Test