



KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Discipline : - Electronics & Telecommunication Engineering	Semester – 4 th Summer / 2024	Name of the Faculty - Mr. Jiban Kumar Jena Email ID – jiban.jenafet@kp.kiit.ac.in
Subject – AE&LI Practical (Pr.4)	No of days /Week: 04 (4 periods /day) Experiment will be performed in small group of 5 to 6 students	Start date : 29/01/2024 End Date :14/05/2024

Week	Class Day	Practical Topics
1st	1 st	Determine the forward & reverse characteristics of any two types of Diode
	2 nd	Construct Bridge Rectifier using different filter circuits and to determine ripple factor and analyse wave form with filter and without filter of above circuit.
	3 rd	Determine the input and output characteristics of CE & CB transistor configurations .
	4 th	Construct and test the transistor regulator using zener diode.
2 nd	1 st	Determine the forward & reverse characteristics of any two types of Diode
	2 nd	Construct Bridge Rectifier using different filter circuits and to determine ripple factor and analyse wave form with filter and without filter of above circuit.
	3 rd	Determine the input and output characteristics of CE & CB transistor configurations .
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	3 rd	Determine the input and output characteristics of CE & CB transistor configurations .
	4 th	Construct and test the transistor regulator using zener diode.
5 th	1 st	Construct & test Class B Push –Pull Amplifier & observe the wave form
	2 nd	Determine Drain & Transfer characteristics of JEFET & MOSFET
	3 rd	Construct & Calculate the frequency and draw the wave form of (i) HartlyOscillator

		(ii) Colipit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift Oscillator
	4th	Construct & test Astable , Monostable&BistableMutivibrator using OPAMP or IC 555
6th	1st	Construct & test Class B Push –Pull Amplifier & observe the wave form
	2nd	Determine Drain & Transfer characteristics of JEFET & MOSFET
	3rd	Construct & Calculate the frequency and draw the wave form of (i) Hartly Oscillator (ii) Colipit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phaseshift Oscillator
	4th	Construct & test Astable , Monostable&BistableMutivibrator using OPAMP or IC 555
7th	1st	Construct & test Class B Push –Pull Amplifier & observe the wave form
	2nd	Determine Drain & Transfer characteristics of JEFET & MOSFET
	3rd	Construct & Calculate the frequency and draw the wave form of (i) Hartly Oscillator (ii) Colipit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift Oscillator
	4th	Construct & test Astable , Monostable&BistableMutivibrator using OPAMP or IC 555
8th	1st	Construct & test Class B Push –Pull Amplifier & observe the wave form
	2nd	Determine Drain & Transfer characteristics of JEFET & MOSFET
	3rd	Construct & Calculate the frequency and draw the wave form of (i) Hartly Oscillator (ii) Colipit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift Oscillator
	4th	Construct & test Astable , Monostable&BistableMutivibrator using OPAMP or IC 555
9th	1st	Construct & Test timer circuit using IC 555 timer
	2nd	Observe the wave form the clipper and clamper circuits
	3rd	Construct & test voltage power supply using 78xx, 79xx, LM317 ICS(+5v, -5v,+9v, -9v)
	4th	Construct and test voltage power supply using LM723
10th	1st	Construct & Test timer circuit using IC 555 timer
	2nd	Observe the wave form the clipper and clamper circuits
	3rd	Construct & test voltage power supply using 78xx, 79xx, LM317 ICS(+5v, -5v,+9v, -9v)
	4th	Construct and test voltage power supply using LM723
11th	1st	Construct & Test timer circuit using IC 555 timer
	2nd	Observe the wave form the clipper and clamper circuits
	3rd	Construct & test voltage power supply using 78xx, 79xx, LM317 ICS(+5v, -5v,+9v, -9v)
	4th	Construct and test voltage power supply using LM723
12th	1st	Construct & Test timer circuit using IC 555 timer
	2nd	Observe the wave form the clipper and clamper circuits
	3rd	Construct & test voltage power supply using 78xx, 79xx, LM317 ICS(+5v, -5v,+9v, -9v)
	4th	Construct and test voltage power supply using LM723
13th	1st	Repeat class
	2nd	Repeat class for experiment 1 & 2
	3rd	Repeat class for experiment 3& 4
	4th	Repeat class for experiment 5&6
14th	1st	Repeat class for experiment 7 &8
	2nd	Repeat class for experiment 9&10
	3rd	Repeat class for experiment 11 &12
	4th	Repeat class / Doubt clear
15th	1st	Revision
	2nd	Doubt clear
	3rd	Practice test
	4th	Practice test

