LESSON PLAN

SUB:-ANALOG ELECTRONICS LAB

BRANCH:- ELECTRICAL ENGG.

SEMESTER: 4TH

NAME OF FACULTY: - TAPAN KU. DAS

GOVERNMENT POLYTECHNIC, BHADRAK

SESSION:2024-25

HOD Electrical

HOD (ELECT.)
G.P.BHADRAK

Academic Co-ordinator

Academic Co-ordinator

Principal
Govt. Polytechnic Bhadrak

Principal
Govt. Polytechnic
Bhadrak

DISCIPLINE ELECTRICAL ENGG.	SEMESTER 4TH	NAME OF THE TEACHING FACULTY: TAPAN KU. DAS (Lect. in Electronics Engg.)
SUBJECT: ANALOG ELECTRONICS LAB	NO. OF DAYS/WEEK CLASS ALLOTTED – 45 (3P/week)	SEMESTER FROM DATE 04.02.2025 – 17.05.2025
WEEK	CLASS DAY	PRACTICAL TOPICS
1st	E_1	Determine the input and output Characteristics of CE & CB transistor configuration
	E_2	Determine the input and output Characteristics of CE & CB transistor configuration
2nd	E_1	Determine Drain & Transfer Characteristics of JFET
	E_2	Determine Drain & Transfer Characteristics of JFET
3rd	E_1	Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter.
	E_2	Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter.
4th	E_1	Construct Bridge Rectifier using different filter and to determine Ripple factor.
	E_2	Construct Bridge Rectifier using different filter and to determine Ripple factor.
5TH	E_1	Construct & test the regulator using Zener diode
	E_2	Construct & test the regulator using Zener diode
6TH	E_1	Construct different types of biasing circuit and analyze the wave form (i) Fixed bias (ii) Emitter bias (iii) Voltage divider bias
	E_2	Construct different types of biasing circuit and analyze the wave form (i)Fixed bias (ii) Emitter bias (iii) Voltage divider bias
7TH	E_1	Study the single stage CE amplifier & find Gain
	E_2	Study the single stage CE amplifier & find Gain
8TH	E_1	Study multi stage R-C coupled amplifier & to determine frequency- response & gain.

	E_2	Study multi stage R-C coupled amplifier & to determine frequency- response & gain.
9^{TH}	E_1	Construct & Find the gain (I) Class A. Amplifier (ii) Class B. Amplifier (iii) Class C Tuned Amplifier
	E_2	Construct & Find the gain (I) Class A. Amplifier (ii) Class B. Amplifier (iii) Class C Tuned Amplifier
10^{TH}	E_1	Construct & test push pull amplifier & observer the wave form
	E_2	Construct & test push pull amplifier & observer the wave form
11^{TH}	E_1	Construct & calculate the frequency of Hartly Oscillator (ii) Collpit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift oscillator and draw wave form & calculate the frequency
	E_2	Construct & calculate the frequency of Hartly Oscillator (ii) Collpit's Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift oscillator and draw wave form & calculate the frequency
12^{TH}	E_1	Construct & Test Differentiator and Integrator using R-C Circuit
	E_2	Construct & Test Differentiator and Integrator using R-C Circuit
13^{TH}	E_1	Study Multivibrator (Astable, Bistable, Monstable) Circuit & Draw its Wave forms
	E_2	Study Multivibrator (Astable, Bistable, Monstable) Circuit & Draw its Wave forms
14^{TH}	E_1	REVISION
	E_2	REVISION
15^{TH}	E_1	REVISION
	E_2	REVISION

01.02.25

SIGNATURE OF THE FACULTY

Lect. in Elect. Engg.
Govt. Poly. Bhadrak