



LESSON PLAN

SUB:-ANALOG ELECTRONICS LAB

BRANCH:- ELECTRICAL ENGG.

SEMESTER: 4TH

NAME OF FACULTY: - TAPAN KU. DAS



**GOVERNMENT POLYTECHNIC,
BHADRAK**

SESSION:2024-25

HOD Electricals

HOD (10.3.24)
G.P.BHADRAK

Academic Co-ordinator

Academic Co-ordinator

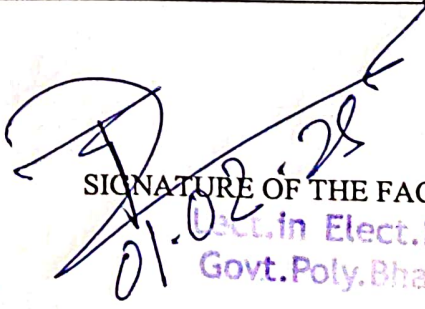
Principal

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
7 TH	E ₁	Study the single stage CE amplifier & find Gain
	E ₂	Study the single stage CE amplifier & find Gain
8 TH	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 & observe the wave form
	E ₂	Construct & test push pull amplifier & observe 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


 SIGNATURE OF THE FACULTY
 Lect. in Elect. Engg.
 Govt. Poly. Bhadrak