

LESSON PLAN

SUB:-ANALOG ELECTRONICS LAB

BRANCH:- ELECTRICAL ENGG.

SEMESTER: 4TH

NAME OF FACULTY: - TAPAN KU. DAS



GOVERNMENT POLYTECHNIC,
BHADRAK

SESSION:2023-24

[Signature]
HOD Electrical
13.1.24
HOD (ELECT.)
G.P. BHADRAK

[Signature]
13.1.24
Academic Co-ordinator
Academic Co-ordinator

[Signature]
13.1.24
Principal
Govt. Polytechnic Bhadrak
Principal
Govt. Polytechnic
Bhadrak

DISCIPLINE ELECTRICAL ENGG.	SEMESTER 4 TH	NAME OF THE TEACHING FACULTY: TAPAN K.U. DAS (Lect. in Electronics Engg.)
SUBJECT: ANALOG ELECTRONICS LAB	NO. OF DAYS/WEEK CLASS ALLOTTED – 45 (3P/week)	SEMESTER FROM DATE 16.01.2024 to 26.04.2024
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
	E ₁	Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter.
3rd	E ₂	Construct Bridge Rectifier using different filter circuit and to determine Ripple factor & analyze wave form with filter & without filter.
	E ₁	Construct Bridge Rectifier using different filter and to determine Ripple factor.
4th	E ₂	Construct Bridge Rectifier using different filter and to determine Ripple factor.
	E ₁	Construct & test the regulator using Zener diode
5TH	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.

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 9 16 23 30

E ₂	Study multi stage R-C coupled amplifier & to determine frequency- response & gain.
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
E ₁	Construct & test push pull amplifier & observe the wave form
E ₂	Construct & test push pull amplifier & observe the wave form
E ₁	Construct & calculate the frequency of Hartly Oscillator (i) 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
E ₁	Construct & Test Differentiator and Integrator using R-C Circuit
E ₂	Construct & Test Differentiator and Integrator using R-C Circuit
E ₁	Study Multivibrator (Astable, Bistable, Monstable) Circuit & Draw its Wave forms
E ₂	Study Multivibrator (Astable, Bistable, Monstable) Circuit & Draw its Wave forms
E ₁	REVISION
E ₂	REVISION
E ₁	REVISION
E ₂	REVISION

LAB.

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Signature of the Faculty

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