S.K D.A.V GOVT. POLYTECHNIC, Rourkela

LESSON PLAN

SEM-4TH | **SUBJECT - ANALOG ELECTRONICS LAB**

ACADEMIC SESSION –DEC 2019 TO MAR -2020 | **SUBJECT CODE- PR-2**

BRANCH-ELECTRICAL ENGG | **NAME OF FACULTY - MRS. ROJALIN PARIDA**

L-T-P=0-0-3

PERIOD	DATE	CYCLE	EXPERIMENTS TO BE CONDUCTED
1st class	10/12/2019	1	Demonstration of **Experiment** 1-Determine the input and output characteristics of CE and CB transistor configuration. Demonstration of **Experiment 2-** Determine Drain and transfer characteristics of JFET. Demonstration of **Experiment 3-**Construct bridge rectifier using filter circuit and to determine ripple factor and analyze waveform with filter and without filter.
2nd class	17/12/2019	1	Cycle 1 continued, Record checking and viva
3rd class	24/12/2019		Cycle 1 continued, Record checking and viva
4th class	7/1/2020		Cycle 1 continued, Record checking and viva
5th class	14/1/2020	2	Demonstration of **Experiment 4-** construct bridge rectifier using different filter and to determine ripple factor. Demonstrations of **Experiment 5-** construct and test the regulator using Zener diode. Demonstration of **Experiment 6-** construct different types of biasing circuits and analyze the waveform a) fixed bias b) emitter bias c) voltage division biasing
6th class	21/01/2020		Cycle 2 continued, Record checking and viva
7th class	28/01/2020		Cycle 2 continued, Record checking and viva
8th class	4/02/2020		Cycle 2 continued, Record checking and viva
9th class	11/02/2020	3	Demonstrations of **Experiment 7**- study the single stage CE amplifier and find gain. Demonstration of **Experiment 8-**study multistage RC coupled amplifier and to determine frequency response and gain Demonstration of **Experiment 9**- construct and find the gain a) class A amplifier b) class B amplifier c) class C tuned amplifier
10th class	18/02/2020		Cycle 3 continued, Record checking and viva
11th class	25/02/2020		Cycle 3 continued, Record checking and viva
12th class	03/03/2020		Cycle 3 continued, Record checking and viva
13th class	17/03/2020	4	Demonstrations of **Experiment 10**- construct and test push pull amplifier and observe the waveform. Demonstration of **Experiment 11**-construct and calculate the frequency of a) Hartley oscillator

			b) Colpitt oscillator c) Wein bridge oscillator d) RC phase shift oscillator and draw waveform and calculate the frequency. Demonstration of **Experiment 12**-study multivibrator (astable, bistable and monostable) circuit and draw its waveform.
14th class	24/03/2020		Cycle 4 continued, Record checking and viva
15th class	31/03/2020		Cycle 4 continued, Record checking and viva + Cycle 4 continued, Record checking and viva

Rojalin Parida

Signature of faculty member

Smaranika Sundar Ray

counter signature of HOD