

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2022-2023

Discipline: Common

Semester: 1st

Subject: Basic Electrical

Name of the Teaching Faculty: Mr. S.C. Nayak, Mr. S.Nanda, Mr. D.P. Biswal

Subject: Basic Electrical Engg. No. of Days/per week class allotted : 04

Semester From Date: 25.10.22 to Date: 20.02.23

No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
1	1	Concept of Current flow Concept of source load. Ohm's law
	2	Concept of Resistance Series circuit, Parallel circuit
2	3	Effect of power on Series and Parallel circuit
	4	Kirchhoff's law
3	5	Simple problems on Kirchhoff's law.
	6	Generation of alternating emf. Difference between A.C and D.C.
4	7	Define Amplitude, instantaneous value, Cycle time period, frequency, phase angle phase difference.
	8	State and explain R.M.S value, Average value, amplitude factor and form factor
5	9	Simple problems on R.M.S value and average value
	10	Represent AC value in phasor diagram, A.C through pure R
6	11	A.C through L, C, RL
	12	A.C through RC, RLC

Rudesh Chandan Nayak
Signature of the Faculty

Subject: Basic Electrical Engg. No. of Days/per week class allotted : 04

Semester From Date: 25-10-23 To Date: 20-03-23

No. of Weeks : 15

Week	Class Day	Theory/Practical Topics
7	13	Simple problems on R, RC, RLC Series Circuit.
	14	Concept of power, power factor, impedance triangle and power triangle
8	15	Elementary idea on generation of Electricity from thermal power station with block diagram.
	16	Generation of Electricity from hydro electric power station.
9	17	Generation of electricity from Nuclear Power station
	18	Introduction to D.C Machine. Main parts of D.C Machine
10	19	Classification of D.C. Generator.
	20	Classification of D.C. Motor
11	21	Uses of different types of D.C. Generator and Motor
	22	Different types of Single phase induction motor. Uses of diff. types of $1-\phi$ I.M.
12	23	Different types of lamps. Concept of Lumen.
	24	Construction and Principle of different types of lamps (filament, fluorescent & LED bulb)

Sudesh Chandan Nayak
Signature of the Faculty

