PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session: 2023-24

1st Semester

BRANCH- COMMON

Basic Electronics Engineering

Sri Niranjan Behera Sr. Lect. in Electronics & tele.com. Engg. Subject: Basic Electronics Engg.

No. of Days/per week class allotted : 02

Semester From Date :16-08-2023 To Date :11-12-2023

No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
1st	1	Basic concept of Electronics and its application
	2	Electron emission and its type
2nd	3	Classification of solid according to energy band diagram.
	4	Intrinsic semiconductor
3rd	5	Extrinsic semiconductor
	6	Difference between Vaccum tube and semi-conductor
4th	7	PN Junction diode , Zener diode and LED
	8	Integrated circuit (IC) and its advantage
5th	9	Rectifier
	10	Half wave & Full wave rectifier with their merits and demerits.
6th	11	Filter and different type of filter.
	12	Working of power supply (dc) with block diagram.
7th	13	Transistor, Different type of transistor CB,CE and CC.
	14	Need of biasing and type of biasing
8th	15	Single stage CE amplifier
	16	Oscillator and its classification.
9th	17	Different element of Oscillator and simple Block diagram
	18	Block diagram of Basics commutations system
10th	19	Modulation and Demodulation
	20	Type of modulation (AM,FM & PM)
11th	21	Concept of transducer
	22	Sensor . Different between sensor and transducer
12th	23	Different type of transducer
	24	Working Principle of photo volatile transducer.

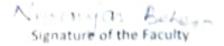
Nirranjan Behora Signature of the Faculty

Subject: Basic Electronics Engg.

No. of Days/per week class allotted : 02

Semester From Date :16-08-2023

To Date :11-12-2023 No. of Weeks : 15 Week Class Day Theory /Practical Topics 13th 25 Working Principle of photo emissive transducer. 26 Multi meter and its application 14th 27 Analag and digital multimeter with block diagram. 28 CRO, Working principle of CRO with block diagram. 15th 29 Different wave parameter and relation between them. 30 Revision and Question discussion. .



PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2023-2024

Discipline: <u>Electrical</u> Engg.

1.

Semester: 1st

Subject: Basic Electrical & Electronics Engineering

Name of the Teaching Faculty: Subesh Chandra Nayak

Subject: Basic Electrical Engg. No. of Days/per week class allotted : <u>04</u> Semester From Date : <u>16-08-2023</u> To Date : <u>11-12-2023</u> No. of Weeks : <u>15</u>

Week	Class Day	Theory /Practical Topics
1	1_	Concept of Current blow Concept of sounce I load. Ohm's law
	2	Concept of Reseistance Series Cincuit, Panallel Circuit
2	3	Effect of power on Series and Panallel Circuit
	4	Kinchhoff's law
3	5	Simple problems on kinchhoff's law.
	6	Generation of alternating emp. Difference between A.C and D.C.
4	Ŧ	Define Amplitude, instantaneous value, Cycle time peniod, frequency, phase angle phase différence.
	8	Størte and explain R.M.S value, Avenage value, amplitude factor & form factor
5	9	Simple problems on R.M.S value and average value
	10	Represent de value én phason diagnam, A.C. through pune R
6	11	A. C through L, C, RL
	12	A.C Rhowgh RC, RLC

Signature of the Faculty

Subject: Basic Electrical Engg. No. of Days/per week class allotted : 04 Semester From Date : 16-08-2023 To Date : 11-12-2023 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
Ŧ	13	Simple problems on RL, RC, RLC services Cencuet
	14	Concept of power, power poeton, impedance triangle and power triangle
8	15	Elementary idea on generation of Electricity from Chennal power Station with block deagram.
	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	ユ1	Uses of different types of D.C. Generaton and Motor
	22.	Different types of Single phase inducation Motor. Uses of diff. types of J-\$ J.M.
12	2 23	Different types og hamps. Concept og Lumen.
	24	Construction and Principle of different type of lamps (filement, flourescent & LED bulb)

Subert Chandme Breeche Signature of the Faculty Subject: Basic Electrical Engg. No. of Days/per week class allotted : 04 Semester From Date : 16-08-2023 To Date : 11-12-2023 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
13	25	Construction and openating principle of LED bulb. Sternating of home appliances.
	24	Types of Wining Single line déagnam.
14	3.7	Basic protection device in house hold wining clater totion of energy consumption in electrical installation.
	28	Inconduction to measuring, instrument. Norque én instrument.
15	29	Different uses of PMMC type of instrument (Ammeter & voltmeter) Uses of MI type of instruments (Ammeter, Voltme
	30	Connection deapnem of AC/DC Ammeter, voltmeter energy meter 1 wattmeter (Singlephase only)

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