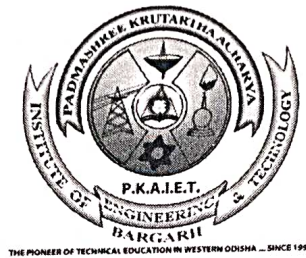


PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER Session-2022-2023

Discipline: Electrical Engg.

Semester: 1st Section-B Subject: Basic Electrical & Electronics Engg.

Name of the Teaching Faculty: Mr. Subesh Chandra Nayak

Subject: Basic Electrical Engg. No. of Days/per week class allotted 2

Semester From Date : 25.10.2022 To Date : 20.02.2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
27.10.2022	Concept of current flow, source, load ohm's law	Concept of current flow, source, load Ohm's law	Defn of current various sources Ohm's law	Boy
1.11.2022	Concept of resistance Series circuit parallel circuit	Concept of resistance Series circuit parallel circuit	Defn of resistance Laws of resistance.	Boy
3.11.2022	Effect of power in series and parallel circuit	Effect of power in series and parallel circuit	Derivation of formulae Resistance in series and parallel	Boy
10.11.2022	Kirchhoff's law	Kirchhoff's Law	KCL KVL Definition.	Boy
15.11.2022	Simple problems on kirchhoff's law	Simple problems on kirchhoff's law	Simple numericals in KCL, KVL	Boy
17.11.2022	Generation of Alternating emf Difference between AC and DC	Generation of alternating emf Difference between AC and DC	Generation of AC Difference	Boy
22.11.2022	Define Amplitude, inst. value, cycle, time period, frequency, ph angle phase difference	Define Amplitude, inst. value, cycle, time period, frequency, ph. angle, ph. difference.	Definition formulae	Boy
24.11.2022	State & explain RMS value, Avg. value Amplitude factor, form factor	State & explain RMS value, Avg. value, Amplitude factor form factor	Definition formulae values.	Boy
29.11.2022	Simple problems on RMS value Average value	Simple problems on RMS value Average value	Simple Numericals	Boy
6.12.2022	Represent AC value in phase diagram AC through pure R	Represent AC value in phase diagram AC through pure R	Various diagram	Boy
8.12.2022	AC through L, C, RL	AC through L, C, RL	Circuit diagram and formulae	Boy

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13.12.2022	Ac through R, C, RLC	Ac through R, C, RLC	Circuit diagrams discussion. Formulae	<u>Gay</u>
15.12.2022	Simple problems on RL, RLC, RC Series circuit.	Simple problems on RL, RLC, RC Series circuit	Numerical solved	<u>Gay</u>
20.12.2022	Concept of power, Power factor, impedance triangle and power triangle.	Concept of power, power factor, impedance triangle and power triangle	Definition and formulae	<u>Gay</u>
22.12.2022	Elementary idea on generation of electricity from thermal power station with block diagram	Elementary idea on generation of electricity from thermal power station with block diagram	Advantages disadvantages Raw material Site selection Block diagram	<u>Gay</u>
27.12.2022	Generation of electricity from hydro power station	Generation of electricity from hydro power station	Adv. & disadv. fuel, site selection Block diagrams	<u>Gay</u>
29.12.2022	Generation of electricity from nuclear power station	Generation of electricity from nuclear power station	Adv & disadv. Site selection Block diagram discussion	<u>Gay</u>
3.01.2023	Introduction to DC machine Main parts of DC Machine	Introduction to DC Machine Main parts of DC machine	Various parts of DC Machine	<u>Gay</u>
5.01.2023	Classification of DC generator formula derivation	Classification of DC generator formula derivation	Discussion about various types of DC generator	<u>Gay</u>
10.01.2023	Problems on DC generator	Problems on DC generator	Simple numericals solved	<u>Gay</u>
12.01.2023	Classification of DC Motor	Classification of DC Motor	Types of DC Motor	<u>Gay</u>
17.01.2023	Problems on DC Motor	Problems on DC motor	Simple numericals discussed	<u>Gay</u>

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
19.01.2023	Use of DC generator & motor, types & uses of single phase induction motor.	Uses of DC generator & motor, types & uses of single phase induction motor.	Uses of DC generator & motor Types of single phase induction motor.	GM
24.01.2023	Concept of Lumen, filament lamp, const. & principle, of fluorescent lamp its construction.	Concept of Lumen, filament lamp, const. & principle of fluorescent lamp its construction.	Definition of lumen Construction & principle of fluorescent lamp.	GM
31.01.2023	Fluorescent lamp its operating principle LED - construction principle & operation of home appliances.	Fluorescent lamp its operating principle, LED construction & principle & operation of appliances.	Fluorescent lamp, LED Ratings	GM
7.02.2023	Types of wiring Single line diagram.	Types of wiring Single line diagram.	Types of wiring diagram.	GM
9.02.2023	Basic protective devices in house wiring calculate energy consumed in the electrical installation.	Basic protective devices in house wiring, calculate energy consumed in electrical installation.	Fuse various types of fuse M.C.B etc.	GM
11.02.2023	Introduction to measuring instrument, torque in instrument.	Introduction to measuring instrument, torque in instrument.	Discussion about measuring instruments torque.	GM
16.02.2023	Torque in instrument uses of PMMC, M.I type instrument.	Torque in instrument Uses of PMMC, M.I type instrument.	Various PMMC, M.I instrument.	GM
16.02.2023	Draw connection diagram of AC/DC Ammeter, voltmeter, wattmeter.	Draw connection diagram of AC/DC Ammeter, voltmeter, wattmeter.	idea about Ammeter voltmeter wattmeter diagrams.	GM