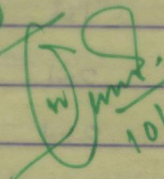


Discipline	Semester	Name of the teaching faculty
Electrical	4th	Sanghamitra Nahak
Subject	No. of classes per week/class Allotted	Semester from 10-03-2022 to 10-06-2022 No. of Weeks 14
EM&I	05	
Weeks	Class Day	<u>THEORY / PRACTICAL TOPICS</u>
	1st	
	2nd	
07.03.22	3rd	<u>Measuring Instruments: Define Accuracy</u>
	4th	• Precision, Error, Resolutions
12.03.22	5th	• Classification of measuring instruments
	1st	• Explain Deflecting, Controlling, damping
14.3.22	2nd	• Calibration of Instruments
	3rd	<u>Analog Ammeters and Voltmeters: Construction</u>
19.3.22	4th	← DOLA PURNIMA →
	5th	← HOLI →
	1st	• Operation principle, error, Range
21.3.22	2nd	• Moving iron type instruments
	3rd	• PMMC Instruments
26.3.22	4th	• Dynamometer type Instruments
	5th	• Rectifier type Instruments.
	1st	• Induction type Instruments
28.3.22	2nd	• Extend the range by shunts
	3rd	• Extend the Range by Multipliers
2.4.22	4th	← Utkal Divas →
	5th	• Numerical Solving
	1st	<u>Wattmeter and measurement of power: Construction</u>
4.4.22	2nd	• Principle of Operation, errors Dynamometer
	3rd	• Ranges merits and demerits of (LPF, UPF)
9.4.22	4th	• Method of Correction.
	5th	• Induction Type Wattmeter.
	1st	- Continue -
	2nd	<u>Energy meters & Measurement of Energy: Intro</u>
11.4.22	3rd	← MAHA VISUBHA SANKRANTI →
	4th	← GOOD FRIDAY →
16.4.22	5th	• Single phase type energy meter: Construction.

Weeks	Class Day	Theory / Practical Topics
18.4.22	1st	• Working principle
	2nd	• Compensation & Adjustments
	3rd	• Testing of Energy meters
	4th	• — Continue —
	5th	<u>Measurement of speed, frequency & PF: Tachometers</u>
25.4.22	1st	• Types and Working principles
	2nd	• Mechanical Resonance type frequency meter
	3rd	• — Cont. —
30.4.22	4th	• — Cont. —
	5th	• Electrical Resonance type frequency meter
	1st	• — Cont. —
2.5.22	2nd	← ID - UL - FITRE →
	3rd	• Dynamometer type single phase PF meter.
	4th	• — Cont. —
7.5.22	5th	• — Cont. —
	1st	• Dynamometer type three phase PF meter.
	2nd	• — Cont. —
14.5.22	3rd	<u>Measurement of resistance, Inductance, Capacitance</u>
	4th	• Potentiometer method
	5th	• Wheatstone Bridge method
16.5.22	1st	← BUDDHA PURNIMA →
	2nd	• Loss of charge Method
	3rd	• Operation of megger & Earth tester
21.5.22	4th	• Analog Multimeter
	5th	• Digital Multimeter
	1st	• Maxwell's Bridge method
13.5.22	2nd	• Schering Bridge method
	3rd	<u>Sensors and Transducers: Definition.</u>
	4th	• Classification
28.5.22	5th	• Linear and angular motion potentiometer

Weeks	Class Day	Theory / Practical Topics
	1st	← SABITRI AMABASTYA →
30.5.22	2nd	• Thermistors, Strain gauges, LVDT
	3rd	• Capacitive Transducers
4.6.22	4th	• Piezo electric Transducers.
	5th	• Hall effect Transducers.
	1st	<u>Oscilloscope:</u> Cathode ray tube
6.6.22	2nd	• Operation.
	3rd	• Measurement of Dc Voltage & Current
11.6.22	4th	• Measurement of AC Voltage & phase
	5th	

Verified

 10/03/2022