

ACADEMIC LESSON PLAN OF WINTER 2023

Discipline: ELECTRONICS AND TELECOMMUNICATION	Semester:3 RD Sem (G1 & G2)	Name of the Teaching Faculty: Bibhu Prasad Das and Smaranika Dalai
Subject: ELECTRONICS MEASUREMENT& INSTRUMENTATION	No. of days/per week class allotted: 4p(4hr)/week	Semester From: 1 st Aug 2023 to 30 th Nov 2023 No. of Weeks: 17 weeks
Lab		
Week	Class Day	Practical Topics
1 st	1 st	Introduction
	2 nd	Introduction
2 nd	1 st	EXP-1. Study and construction of moving coil and moving iron instruments& calibrate.(cont..)
	2 nd	EXP-1Study and construction of moving coil and moving iron instruments& calibrate.
3 rd	1 st	EXP-2.Study of static and dynamic characteristic of PMMC & moving iron instruments (cont..)
	2 nd	EXP-2. Study of static and dynamic characteristic of PMMC & moving iron instruments
4 th	1 st	EXP-3.Study of Resolution, Sensitivity of Digital Instrument. (cont..)
	2 nd	EXP-3. Study of Resolution, Sensitivity of Digital Instrument
5 th	1 st	EXP-4. Measurement of Current and Voltages by Low range ammeter and voltmeter respectively with shunt and multiplier. (cont..)
	2 nd	EXP-4. Measurement of Current and Voltages by Low range ammeter and voltmeter respectively with shunt and multiplier.
6 th	1 st	EXP-5.Observe the wave forms of different frequency by using Function generator and draw its diagram measure the amplitude and frequency & calculates average & R.M.S. Values, frequency, Time Periods using CRO. (cont..)
	2 nd	EXP-5. Observe the wave forms of different frequency by using Function generator and draw its diagram measure the amplitude and frequency & calculates average & R.M.S. Values, frequency, Time Periods using CRO.
7 th	1 st	EXP-6. Measure the unknown frequency and phase angle using CRO by Lissajous figure. . (cont..)
	2 nd .	EXP-6. Measure the unknown frequency and phase angle using CRO by Lissajous figure.
8 th	1st	EXP-7. Measurement of resistance using Wheatstone's Bridge (cont..)
	2 nd	EXP-7 Measurement of resistance using Wheatstone's Bridge
9 th	1 st	EXP-8. Measure the inductance by Maxwell's Bridge &Hay's Bridge. (cont..)
	2 nd	EXP-8.Measure the inductance by Maxwell's Bridge &Hay's Bridge
10 th	1 st	EXP-9. Measure the capacitance by Schering's Bridge(cont..)

	2 nd	EXP-9. Measure the capacitance by Schering's Bridge
11 th	1 st	EXP-10. Mini Project : To collect data like base configuration, Operational characteristics, applications and critical factors etc. on all measuring devices & studied in theory and compile a project report through out and submit at the end of the semester(cont..)
	2 nd	EXP-10. Mini Project : To collect data like base configuration, Operational characteristics, applications and critical factors etc. on all measuring devices & studied in theory and compile a project report through out and submit at the end of the semester(cont..)
12 th	1 st	EXP-10. Mini Project : To collect data like base configuration, Operational characteristics, applications and critical factors etc. on all measuring devices & studied in theory and compile a project report through out and submit at the end of the semester(cont..)
	2 nd	EXP-10. Mini Project : To collect data like base configuration, Operational characteristics, applications and critical factors etc. on all measuring devices & studied in theory and compile a project report through out and submit at the end of the semester.
13 th	1 st	Lab Practice
	2 nd	Lab Practice
14 th	1 st	Lab practice
	2 nd	Lab practice
15 th	1 st	Lab Practice
	2 nd	Lab practice
16 th	1 st	Sessional
	2 nd	Sessional
17 th	1 st	Sessional
	2 nd	Sessional

Bibhu P. Das
01/08/23

Signature of Teaching Faculty