

GOVT. POLYTECHNIC KENDRAPARA
LESSON PLAN
Session(2024-2025)

Discipline: Electronics and Telecommunication.	Semester: 3 RD , Winter/2024	Name of the Teaching Faculty: PRAFULLA KUMAR PANDA(GUEST FACULTY)
Subject: Electronics Instrumentation and Measurement Theory-4	No. of Days/Week: 04	Start Date: 01/07/2024 End Date: 08/11/2024
Week	Class Day	Theory Topics
1st week 1st july to 6th july	1st	Discuss the Static Characteristics, Accuracy,
	2nd	Describe sensitivity, reproducibility & static error of instruments.
	3rd	Dynamic characteristics & speed of instruments.
	4th	Errors of an instrument & explain various types.
2nd week 08th july to 13th july	1st	Introduction to Indicator & Display devices & its types.
	2nd	Basic principle of meter movement, permanent magnetic moving coil movement & its advantages & disadvantages.
	3rd	Operation of Moving Iron Instrument.
	4th	Basic principle of operation of DC Ammeter and Multi range Ammeter.
3rd week 15th july to 20th july	1st	Basic principle of operation of AC Ammeter and Multi range Ammeter.
	2nd	Basic principle of operation of DC Voltmeter and its applications.
	3rd	Basic principle of operation of AC Voltmeter and its application.
	4th	Basic principle of Ohm Meter (Series & Shunt type).
4th week 22nd july to 27th july	1st	Basic principle of Ohm Meter (Series & Shunt type).
	2nd	Basic principle of Analog Multimeter, its types & applications.
	3rd	Operation of Q meter and its essentials.
	4th	Operation of Q meter and its essentials.
5th week 29july to 3rd august	1st	Principle of operation of Ramp type Digital Voltmeter & applications,
	2nd	Operation of display of 3 1/2, 4 1/2– Digital Multimeter & Resolution and Sensitivity.
	3rd	Basic principle of operation of working of Digital Multimeter.
	4th	Digital Multimeter, types & applications. Basic principle of operation of working of Digital Frequency Meter.
	1st	Operation of working of Digital Measurement of Time. Measurement of Frequency.

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er. Principles

1st week 2nd Nov to 8th Nov	1st	Function of basic Wave Analyzer & Spectrum Analyzer.
	2nd	Function of basic Wave Analyzer & Spectrum Analyzer.
	3rd	Basic concept of Data Acquisition System (DAS).
	4th	Basic concept of Data Acquisition System (DAS).

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