

LESSON SCHEDULE

Academic Year: 2020-2021

Semester: 5th

Course Title: **Electrical Measurement-II**

Course Code: **PCC-EE-504**

Name of Faculty: **Shafqat Nabi Mughal**

Unit	Date	Execution Date	Lecture No.	Topic
I	19-08-2020		1	Introduction to Course & Potentiometer
	20-08-2020		2	DC Potentiometer-Principle of Operation
	25-08-2020		3	Standardization of Potentiometer
	26-08-2020		4	Crompton's Potentiometer
	27-08-2020		5	Duo range Potentiometer
	28-08-2020		6	Applications of Potentiometer and Numericals
	01-09-2020		7	AC Potentiometer-Principle of Operation
	02-09-2020		8	Polar type AC Potentiometer
	03-09-2020		9	Co-ordinate type AC Potentiometer
	04-09-2020		10	Application of AC Potentiometer
	05-09-2020		11	Numericals
II	08-09-2020		12	Introduction to Transducers
	09-09-2020		13	Principle of Operation of Transducers
	10-09-2020		14	Classification of Transducers
	11-09-2020		15	Factors influencing the choice of Transducers
	18-09-2020		16	Introduction to Strain Gauge
	19-09-2020		17	Measurement using Strain Guage
	22-09-2020		18	Introduction to LVDT
	23-09-2020		19	Measurement using LVDT
	24-09-2020		20	Introduction to Thermocouple & Operation
	25-09-2020		21	Introduction to Piezoelectric crystal & Operation
	29-09-2020		22	Introduction to Photoelectric Transducers & Operation
30-09-2020		23	Numericals on Transducers	
III	01-10-2020		24	Introduction to Frequency Measurement
	03-10-2020		25	Types of Frequency meters
	06-10-2020		26	Vibrating reed type-Operation
	07-10-2020		27	Electrical resonance type-Operation
	08-10-2020		28	Weston type-Operation
	09-10-2020		29	Digital Frequency Meter-Operation
	13-10-2020		30	Introduction to Phase Measurement
	15-10-2020		31	Analog Phase Meters-Operation
	16-10-2020		32	Digital Phase Meters-Operation
17-10-2020		33	Comparison of Phase Meters & Numericals	

IV	20-10-2020		34	Introduction to Digital Instruments
	21-10-2020		35	Digital Voltmeters-Operation
	22-10-2020		36	Millimeters-Operation
	23-10-2020		37	Automation in Voltmeters
	27-10-2020		38	Accuracy & Resolution of DVM
	28-10-2020		39	Guarding Techniques-Introduction
	31-10-2020		40	Frequency Counter-Operation
	03-11-2020		41	Data loggers-Operation
	04-11-2020		42	Introduction to IEEE 4888/GPIB Buses
V	05-11-2020		43	Introduction to Cathode Ray Oscilloscope
	06-11-2020		44	Cathode Ray Tube-Discussion
	07-11-2020		45	Block Diagram CRO-Explanation
	11-11-2020		46	Components Description of CRO
	12-11-2020		47	Voltage, Current, Phase & Frequency measurement using CRO
	13-11-2020		48	Dual Beam Oscilloscope
	17-11-2020		49	Dual Trace Oscilloscope
	18-11-2020		50	Analog & Digital Recorders
	19-11-2020		51	Measurement system Application to Micro & Nanotechnology

Sarafat.