

**Course wise Teaching Plan for Session : Summer 2019****Course : MEASUREMENTS AND CONTROLS Faculty : abdulhai.pathan@raisoni.net - ABDUL HAI KHAN MOHMMED MUSTAFA****KHAN PATHAN**

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Unit – I : Instrument types and performance characteristics	03/12/2018	MHPL511E	A
1	2	Active and Passive instruments Null type and deflection type instruments	05/12/2018	MHPL511E	A
1	3	Analogue and digital instruments	08/12/2018	MHPL511E	A
1	4	Indicating instruments and instruments with signal output	10/12/2018	MHPL511E	A
1	5	smart and non smart instruments.	12/12/2018	MHPL511E	A
1	6	Static and Dynamic characteristics of instruments	15/12/2018	MHPL511E	A
1	7	Necessity of calibration	17/12/2018	MHPL511E	A
1	8	Unit – II : Measurement Uncertainty 10 Sources of Systematic Error	19/12/2018	MHPL511E	A
2	9	System Disturbance due to Measurement Errors due to Environmental Inputs	22/12/2018	MHPL511E	A
2	10	Wear in Instrument Components Accumulation of Accepted Error	24/12/2018	MHPL511E	A
2	14	Quantification of Systematic Errors	01/01/2019	MHPL511E	A
2	11	Improper Functioning of Instruments Dual Sensitivity Errors Other Sources of Error	02/01/2019	MHPL511E	A
2	16	parameter estimation regression analysis correlations	03/01/2019	MHPL511E	A
2	12	Minimizing Experimental Error Statistical Analysis of Measurements subject to Random Errors	05/01/2019	MHPL511E	A
2	17	analysis of data	07/01/2019	MHPL511E	A
3	18	Unit – III : Measurement of field quantities Temperature	08/01/2019	MHPL511E	A
3	19	heat flux measurement	09/01/2019	MHPL511E	A
3	20	heat transfer coefficient	14/01/2019	MHPL511E	A
3	21	measurement of force	15/01/2019	MHPL511E	A
3	22	measurement of pressure	16/01/2019	MHPL511E	A
3	23	measurement of flow rate velocity	17/01/2019	MHPL511E	A



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4	24	measurement of humidity noise vibration	21/01/2019	MHPL511E	A
4	25	Unit – IV : Measurement of derived quantities :Force	22/01/2019	MHPL511E	A
4	26	Acceleration Torque power	23/01/2019	MHPL511E	A
4	27	thermo physical properties radiation and surface properties	24/01/2019	MHPL511E	A
4	28	Miscellaneous Measurements - Time Frequency and	28/01/2019	MHPL511E	A
4	29	Miscellaneous Measurements: Phase-Angle Measurement Liquid Level	29/01/2019	MHPL511E	A
4	30	Miscellaneous Measurements: Chemical Composition	30/01/2019	MHPL511E	A
4	31	Miscellaneous Measurements: Current and Power Measurement	31/01/2019	MHPL511E	A