

**Course wise Teaching Plan for Session : Summer 2019****Course : AIR CONDITIONING TECHNOLOGY Faculty : saurabh.gupta@raisoni.net - SAURABH HARISHCHANDRA GUPTA**

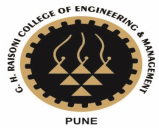
Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Moist Air properties	03/12/2018	MHPL508	A
1	1	Psychrometric Processes	04/12/2018	MHPL508	A
1	2	Use of Psychrometric Chart	06/12/2018	MHPL508	A
1	3	Air washer, Bypass Factor, ADP	07/12/2018	MHPL508	A
1	4	Applied Psychrometry – RSHF, GSHF and ESHF	10/12/2018	MHPL508	A
1	2	Numericals on Psychrometric Processes	11/12/2018	MHPL508	A
1	5	Applied Psychrometry – RSHF, GSHF and ESHF	13/12/2018	MHPL508	A
1	6	Numericals on RSHF, GSHF and ESHF	14/12/2018	MHPL508	A
1	7	Numericals on Applied Psychrometry	17/12/2018	MHPL508	A
2	3	Cooling Load	18/12/2018	MHPL508	A
2	8	Solar Radiation-Heat Gain through Glasses, Heat transfer through roofs and walls	20/12/2018	MHPL508	A
2	9	Total Cooling Load Estimation	21/12/2018	MHPL508	A
2	10	Total Cooling Load Estimation	24/12/2018	MHPL508	A
2	11	Total Cooling Load Estimation (Numericals)	27/12/2018	MHPL508	A
2	4	Total Cooling Load Estimation (Numericals)	01/01/2019	MHPL508	A
2	14	Total Cooling Load Estimation (Numericals)	03/01/2019	MHPL508	A
3	15	Fundamentals of air flow in ducts	04/01/2019	MHPL508	A
3	16	pressure drop in ducts	07/01/2019	MHPL508	A
3	5	pressure drop calculations	08/01/2019	MHPL508	A
3	17	sizing of ducts using equal friction method	10/01/2019	MHPL508	A
3	18	Equal velocity method	11/01/2019	MHPL508	A
3	19	static regain method	14/01/2019	MHPL508	A
3	20	duct materials and properties, insulating materials	18/01/2019	MHPL508	A



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3	21	types of grills, diffusers, wall registers, etc	21/01/2019	MHPL508	A
4	22	Definition of various terms like level, pitch, attenuation, frequency	28/01/2019	MHPL508	A
3	6	Duct Design Calculations	29/01/2019	MHPL508	A
4	23	sources of noise in air conditioning plants	31/01/2019	MHPL508	A
4	24	sources of noise in air conditioning plants	01/02/2019	MHPL508	A
4	25	design procedure for noise prevention	04/02/2019	MHPL508	A
4	7	design for noise prevention	05/02/2019	MHPL508	A
4	26	Fans and Blowers: Types	07/02/2019	MHPL508	A
4	27	performance characteristics, series and parallel arrangement	08/02/2019	MHPL508	A
5	28	Basic psychrometry of evaporative cooling	11/02/2019	MHPL508	A
4	8	design for noise prevention	12/02/2019	MHPL508	A
5	29	Basic psychrometry of evaporative cooling	18/02/2019	MHPL508	A
5	30	types of evaporative coolers	21/02/2019	MHPL508	A
5	31	design calculations	22/02/2019	MHPL508	A
5	32	indirect evaporative cooling for tropical countries	25/02/2019	MHPL508	A
5	9	design calculations	26/02/2019	MHPL508	A
5	33	Heating: Heat loss calculations, heat pumps	28/02/2019	MHPL508	A
5	34	heating coils, electric heating, warm air systems, hot water systems	01/03/2019	MHPL508	A
5	10	Design Calculations	05/03/2019	MHPL508	A
6	35	Cooling coils, humidifiers, dehumidifiers	07/03/2019	MHPL508	A
6	36	various types of filters, air washers	08/03/2019	MHPL508	A
6	37	thermostat, humidistats, cycling and sequence controls,	11/03/2019	MHPL508	A
5	11	Design Calculations	12/03/2019	MHPL508	A



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6	38	modern controls for purity, odour and bacteria	18/03/2019	MHPL508	A
6	12	Numericals on cooling coil, humidifiers	19/03/2019	MHPL508	A
6	39	Air conditioning systems : Classification, study of central and unitary systems	22/03/2019	MHPL508	A
6	40	typical air conditioning systems such as automobile, air planes, ships	25/03/2019	MHPL508	A
6	13	design of air conditioning systems	26/03/2019	MHPL508	A
6	41	railway coach air-conditioning systems,	28/03/2019	MHPL508	A
6	42	Clean Rooms	29/03/2019	MHPL508	A