

# DRONACHARYA

## College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Mechanical Engineering

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject With code- Heat Transfer (ME-306-F)

Name of Faculty with designation : Mr. Abhi Bansal (Assistant Professor)

S.No.	Month	Date & Day	Sem-Class	Section/Unit	Topic/Chapter covered	Academic activity	Test / assignment
1	January	09.01.2018 Tuesday	VI-ME-II	A	Introduction about self & students and DCE teaching methodology.	.....	Assignment of 02 Ques. given
2	January	10.01.2018 Wednesday	VI-ME-II	A	Introduction of heat transfer and various modes of heat transfer Differentiate between heat transfer and thermodynamics.	.....	Assignment of 02 Ques. given
3	January	12.01.2018 Friday	VI-ME-II	A	Fourier law of conduction and explanation of heat transfer by conduction, convection and radiation.	.....	Assignment of 02 Ques. given
4	January	16.01.2018 Tuesday	VI-ME-II	A	Combined modes of heat transfer.	.....	Assignment of 02 Ques. given
5	January	17.01.2018 Wednesday	VI-ME-II	A	Steady state heat conduction.	.....	Assignment of 02 Ques. given
6	January	19.01.2018 Friday	VI-ME-II	A	1-D heat conduction through plane and composite wall.	.....	Assignment of 02 Ques. given
7	January	30.01.2018 Tuesday	VI-ME-II	A	1-D heat conduction through long hollow cylinder and hollow sphere.Numericals discussed	.....	Assignment of 02 Ques. given
8	January	31.01.2018 Wednesday	VI-ME-II		<b>Class Test-I</b>		
9	February	2.02.2018 Friday	VI-ME-II	B	Steady state conduction equation in Cartesian co-ordinates.	.....	Assignment of 02 Ques. given
10	February	6.02.2018 Tuesday	VI-ME-II	B	Steady state conduction equation in polar co-ordinates.	.....	Assignment of 02 Ques. given
11	February	7.02.2018 Wednesday	VI-ME-II	B	Steady state conduction equation in spherical co-ordinates.	.....	Assignment of 02 Ques. given
12	February	9.02.2018 Friday	VI-ME-II	B	1-D heat conduction with heat source and heat generation.	.....	Assignment of 02 Ques. given

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13	February	20.02.2018 Tuesday	VI-ME-II	B	Heat transfer through extended surface Rectangular fins- performance characteristics.	.....	Assignment of 02 Ques. given
14	February	21.02.2018 Wednesday	VI-ME-II	B	Introduction to transient heat conduction system.	.....	Assignment of 02 Ques. given
15	February	23.02.2018 Friday	VI-ME-II	B	Transient heat conduction on plane wall sphere and cylinder.	.....	Assignment of 02 Ques. given
16	February	27.02.2018 Tuesday	VI-ME-II		<b>Class Test-II</b>		
17	February	28.02.2018 Wednesday	VI-ME-II	B	Introduction of heat exchanger and classification of heat exchanger.	.....	
18	March	6.03.2018 Tuesday	VI-ME-II	C	Counter flow and parallel flow heat exchanger derivation for	.....	Assignment of 02 Ques. given
19	March	7.03.2018 Wednesday	VI-ME-II	C	LMTD	.....	Assignment of 02 Ques. given
20	March	09.03.2018 Friday	VI-ME-II	C	Effectiveness and NTU for counter flow and parallel flow heat exchanger.	.....	Assignment of 02 Ques. given
21	March	13.03.2018 Tuesday	VI-ME-II	C	Performance characteristics of heat exchanger.	.....	Assignment of 02 Ques. given
22	March	14.03.2018 Wednesday	VI-ME-II	C	Introduction to radiation and black body radiation.	.....	Assignment of 02 Ques. given
23	March	16.03.2018 Friday	VI-ME-II	C	Shape factor and their relationship.	.....	Assignment of 02 Ques. given
24	March	27.03.2018 Tuesday	VI-ME-II	C	Black body radiation, Stefan's Boltz-Mann law, electromagnetic.	.....	Assignment of 02 Ques. given
25	March	28.03.2018 Wednesday	VI-ME-II	C	Weins displacement law, planks law, shape factor.	.....	Assignment of 02 Ques. given
26	April	3.04.2018 Tuesday	VI-ME-II	C	Introduction to condensation and pool boiling.		Assignment of 02 Ques. given
27	April	4.04.2018 Wednesday	VI-ME-II	D	Laminar film condensation of vertical plate, drop wise condensation and pool boiling, boiling Regimes.	.....	Assignment of 02 Ques. given
28	April	06.04.2018 Friday	VI-ME-II	D	Nucleate boiling & film boiling. Introduction to mass transfer.	.....	Assignment of 02 Ques. given
29	April	10.04.2018 Tuesday	VI-ME-II		<b>Class Test-III</b>		
30	April	11.04.2018 Wednesday	VI-ME-II		<b>Revision Section A and Section B</b>		

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32	April	13.04.2018 Friday	VI-ME-II		Revision Section C and Section D		
33	April	24.04.2018 Tuesday	VI-ME-II		Class Test-IV Full Syllabus		