

LESSON PLAN (HEAT TRANSFER) (2016-2017)					
PERIOD	DATE(TENTATIVE)	TOPIC	UNIT NO	TEACHING METHODOLOGY	REMARKS
3	6/12/16	Introduction to heat transfer, Basic concepts	I	Black board	
4	6/12/16	Mechanisms of heat transfer		Black board	
1	8/12/16	Conduction Mechanisms		Black board	
2	8/12/16	Convection Mechanisms		Black board	
3	13/12/16	Radiation Mechanisms		Black board	
4	13/12/16	Fourier law of conduction		Black board	
1	15/12/16	General differential equation of heat conduction in cartesian coordinates		Black board	
2	15/12/16	General differential equation of heat conduction in cylindrical coordinates		Black board	
3	20/12/16	One dimensional steady state heat conduction – Conduction through plane walls		Black board	
4	20/12/16	1-d state heat conduction through		Black board	
1	22/12/16	Cylinders and spherical systems		Black board	
2	22/12/16	Composite systems		Black board	
3,4	26/12/16	Conduction with internal heat generation	II	Black board	
1	29/12/16	Extended surfaces		Black board	
2	29/12/16	Extended surfaces		Black board	
3	3/01/17	Unsteady heat conduction		Black board	
4	3/01/17	Lumped analysis		Black board	
1	5/01/17	Lumped analysis		Black board	
2	5/01/17	Use of Heisler chart		Black board	
3	10/01/17	Forced convection heat transfer	III	Black board	
4	10/01/17	Basic Concepts, Heat transfer coefficients		Black board	
1	17/01/17	Types of convection		Black board	
2	17/01/17	Dimensional analysis		Black board	
3	24/01/17	Boundary layer concept		Black board	
4	24/01/17	Forced convection of external flows.		Black board	
1	26/01/17	flow over flat plates		Black board	
2	26/01/17	cylinders and spheres		Black board	
3	31/01/17	Internal flows, Laminar		Black board	
4	31/01/17	Turbulent, Combined		Black board	

		laminar and turbulent			
1,2	2/02/17	Flow over bank of tubes		Black board	
3	2/02/17	Natural convection	IV	Black board	
4	2/02/17	Types of convection		Black board	
1	9/03/17	Flow over Vertical plate		Black board	
2	9/03/17	Horizontal plate, Inclined plate, Cylinders and Spheres		Black board	
3	14/03/17	Boiling, condensation		Black board	
4	14/03/17	Regimes of pool boiling – Flow boiling		Black board	
1	16/03/17	Nusselt's theory of condensation		Black board	
2	16/03/17	Correlations in boiling and condensation		Black board	
3	21/03/17	Types of Heat exchanger analysis		Black board	
4	21/03/17	LMTD method		Black board	
1	23/03/17	NTU Effectiveness method		Black board	
2	23/03/17	Overall heat transfer coefficient		Black board	
3	28/03/17	Fouling factor.		Black board	
4	28/03/17	Thermal radiation of Basic concepts,	V	Black board	
1	30/03/17	Stefan-Boltzmann law		Black board	
2	30/03/17	Kirchhoff's law		Black board	
3	4/04/17	Black body radiation		Black board	
4	4/04/17	Grey body radiation		Black board	
1	6/04/17	Shape factor algebra		Black board	
2	6/04/17	Electrical analogy		Black board	
3	11/04/17	Radiation Shields		Black board	
4	11/04/17	Introduction to gas radiation		Black board	

LESSON PLAN (HEAT TRANSFER) (2015-2016)					
PERIOD	DATE(TENTATIVE)	TOPIC	UNIT NO	TEACHING METHODOLOGY	REMARKS
6	5/1/16	Introduction to eat transfer, Basic concepts,mechanisms of heat transfer	I	Black board	
7	7/1/16	Conduction,convection, radiation		Black board	
1,2	8/1/16	Fourier law of conduction,			
6	12/1/16	General differential equation of heat conduction in cartesian coordinates		Black board	
6	19/1/16	General differential equation of heat conduction incylindrical coordinates		Black board	
7	21/1/16	One dimensional steady state heat conduction		Black board	
1,2	22/1/16	Conduction through plane walls			
7	22/1/16	Conduction through Cylinders		Black board	
1	26/1/16	Conduction through spherical systems		Black board	
2	28/1/16	Conduction through Compositesystems		Black board	
1	29/2/16	Conduction with internal heat generation	II	Black board	
2	9/2/16	Extended surfaces		Black board	
6	11/2/16	Unsteady heat conduction		Black board	
1,2	12/2/16	Lumpedanalysis		Black board	
6	16/2/16	UseofHeislrschart		Black board	
7	18/2/16	Problems on lumped analysis			
6	23/2/16	Basic Concepts, Heat transfer coefficients	III	Black board	
7	25/2/16	Types of convection, dimensional analysis		Black board	
1	26/2/16	Boundary layer concept		Black board	
2	26/2/16	Forced convection		Black board	
6	1/3/16	external flows.			
7	3/3/16	flat plates,cylinders		Black board	
1,2	4/3/16	flow overspheres		Black board	
1	8/3/16	Internal flows, Laminar		Black board	
2	10/3/16	Turbulent, Combined laminar and turbulent		Black board	

6	11/3/16	Flow over bank of tubes		Black board	
7	11/3/16	Problems on convection			
1	15/3/16	Natural convection, Flow over Vertical plate	IV	Black board	
2	17/3/16	Horizontal plate, Inclined plate,		Black board	
6	18/3/16	Cylinders and Spheres			
7	18/3/16	Boiling, condensation		Black board	
7	22/3/16	Regimes of pool boiling – Flow boiling		Black board	
1	24/3/16	Nusselt's theory of condensation		Black board	
2	31/3/16	Correlations in boiling and condensation		Black board	
7	1/4/16	Types of Heat exchanger analysis		Black board	
6	1/4/16	Heat exchanger analysis			
6	7/4/16	LMTD method		Black board	
7	12/4/16	NTU Effectiveness method		Black board	
1	19/4/16	Overall heat transfer coefficient		Black board	
2	21/4/16	Fouling factor.		Black board	
6	22/4/16	Thermal radiation of Basic concepts,	V	Black board	
7	22/4/16	Stefan-Boltzmann law		Black board	
1	26/4/16	Kirchhoff's law		Black board	
2	28/4/16	Blackbody radiation		Black board	
6	29/4/16	Grey body radiation		Black board	
7	29/4/16	Shape factor algebra		Black board	
1	3/5/16	Electrical analogy		Black board	
2	5/5/16	Radiation Shields		Black board	
6	5/5/16	Introduction to gas radiation		Black board	