

LESSON PLAN

NAME OF THE FACULTY : Harish Gupta
 DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP
 SEMESTER : 3rd
 SUBJECT : CLIMATOLOGY
 DURATION : 15 WEEKS
 WORK LOAD PER WEEK : 03

WEEK	LECTURE DAY	THEORY
		TOPIC
1 ST	1.	General Introduction
	2.	Introduction to climatology
	3.	Movement of earth around sun,
2 ND	4.	Elements of climate (Wind, temp, humidity, precipitation, pressure).
	5.	Different Climatic Zones.
	6.	Orientation of building with respect to above mentioned elements of climate
3 RD	7.	Effect of climate on man and shelter.
	8.	Relation of Climate and comfort
	9.	Difference between Climate and comfort
4 TH	10.	Macro-micro climatic effects
	11.	Difference between Macro-micro climatic effects
	12.	Concept of comfort zone
5 TH	13.	Concept of bio-climatic chart
	14.	Relation of comfort zone and bio-climatic chart
	15.	SESSIONAL TEST- 1st
6 TH	16.	Climatic evaluation by season
	17.	Sun Control and shading devices (without calculations)
	18.	Solar Chart (sun path diagram)

7 TH	19.	Orientation for sun
	20.	Internal and external sun protection devices
	21.	Natural lighting
8 TH	22.	Introduction of Solar Passive Design
	23.	Objectives of Solar Passive Design
	24.	Passive solar heating and cooling
9 TH	25.	Wind control
	26.	Orientation with respect to wind
	27.	Wind protection devices
10 ^T H	28.	Use of building materials with respect to climate: Concrete, Brick, Glass
	29.	Use of building materials with respect to climate: Plastics, Stone, Insulating material
	30.	SESSIONAL TEST- 2nd
11 ^T H	31.	Criteria for site selection
	32.	Environment and Ecology
	33.	Basic elements of ecology
12 ^T H	34.	Concepts of natural cycles in Eco-system

	35.	Source of noise and air pollution
	36.	Noise and air pollution effects
13T H	37.	Noise and air pollution controls
	38.	Use of landscape elements
	39.	Use of landscape elements for micro and macro climate control
14T H	40.	Relation of micro and macro climate control
	41.	Introduction to climate change
	42.	Principle causes of climate change
15T H	43.	Climate change: effects- methods of mitigating climate change
	44.	Climate change: effects- methods of mitigating climate change
	45.	SESSIONAL TEST- 3rd