

LESSON PLAN

NAME OF THE FACULTY : SH. SAHIL PAHAL
 DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP
 SEMESTER : 3rd
 SUBJECT : **CLIMATOLOGY**
 LESSON PLAN DURATION : 15 WEEKS
 WORK LOAD PER WEEK : 03

WEEK	LECTURE DAY	THEORY
		TOPIC
1 ST	1.	General Introduction : Introduction to climatology
	2.	Movement of earth around sun,
	3.	Elements of climate (Wind, temp, humidity,,).
2 ND	4.	Elements of climate (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: Macro-micro climatic effects
	9.	Difference between Climate and comfort
4 TH	10.	Difference between Macro-micro climatic effects
	11.	Concept of comfort zone and bio-climatic chart
	12.	Concept of comfort zone and bio-climatic chart
5 TH	13.	Climatic evaluation by season
	14.	Climatic evaluation by season
	15.	IST SESSIONAL TEST
6 TH	16.	Sun Control and shading devices (without calculations)

	17.	Solar Chart (sun path diagram)
	18.	Orientation for sun
7 TH	19.	Internal and external sun protection devices
	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: Orientation with respect to wind
	26.	Orientation with respect to wind
	27.	Wind protection devices
10 TH	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.	2ND SESSIONAL TEST
11 TH	31.	Environment and Ecology:
	32.	Environment and Ecology
	33.	Basic elements of ecology
12 TH	34.	Concepts of natural cycles in Eco-system
	35.	Source of noise and air pollution
	36.	Noise and air pollution effects
13 TH	37.	Noise and air pollution controls

H	38.	Use of landscape elements
	39.	Use of landscape elements for micro and macro climate control
14 ^T H	40.	Use of landscape elements for micro and macro climate control
	41.	Introduction to climate change
	42.	Principle causes of climate change
15 ^T H	43.	Climate change: effects- methods of mitigating climate change
	44.	Climate change: effects- methods of mitigating climate change
	45.	3RD SESSIONAL TEST