LESSON PLAN

NAME OF THEFACULTY		:	
DISCIPLINE		:	ARCHITECTURALASSISTANTSHIP
SEMESTER		:	3rd
SUBJECT	:		CLIMATOLOGY
DURATION		:	15WEEKS
WORK LOADPERWEEK	:		03

	ECTURE AY 1. 2.	TOPIC General Introduction
1ST		
1ST		General Introduction
	2.	
		Introduction to climatology
	3.	Movement of earth around sun,
2ND	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
3RD	7.	Effect of climate on man and shelter.
	8.	Relation of Climate and comfort
	9.	Difference between Climate and comfort
4TH	10.	Macro-micro climatic effects
	11.	Difference between Macro-micro climatic effects
	12.	Concept of comfort zone
5TH	13.	Concept of bio-climatic chart
	14.	Relation of comfort zone and bio-climatic chart
	15.	SESSIONAL TEST- 1st
6TH	16.	Climatic evaluation by season
	17.	Sun Control and shading devices (without calculations)
	18.	Solar Chart (sun path diagram)

	19.	Orientation for sun
7TH		
	20.	Internal and external sun protection devices
	21.	Natural lighting
	22.	Introduction of Solar Passive Design
8TH		
	23.	Objectives of Solar Passive Design
	24.	Passive solar heating and cooling
	25.	Wind control
9TH	26	
	26.	Orientation with respect to wind
	27.	Wind protection devices
10T	28.	Use of building materials with respect to climate: Concrete, Brick, Glass
H	29.	Use of building materials with respect to climate: Plastics, Stone, Insulating
		material
	30.	SESSIONAL TEST- 2nd
	50.	
	31.	Criteria for site selection
11T		
Н	32.	Environment and Ecology
	33.	Basic elements of ecology
	55.	
	34.	Concepts of natural cycles in Eco-system
12T		
Н		

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