

SECOND YEAR – THIRD SEMESTER

AC 302	CLIMATE & BUILDING	(L=2,S=0,W=0)	CREDITS =02
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INTERNAL ASSESSMENT(TERM WORK) = 50
UNIVERSITY EXAMINATION = 50

CONTACT HRS/WK= 02

Focus: Built Environment & Climate

Contents: Climate – Constituent elements, Classification of tropical climatic zones.
Micro & Macro climate.
Thermal comfort & principles of Thermal Design.
Ventilation – Air movement & fenestration, solar orientation, Sun path pattern & shading devices.
Traditional House Form & Settlement pattern in various tropical climates.
Design Tools – Mahoney Tables, Sun Path diagrams, etc.
Day lighting – components, architectural methods of borrowing day light; control of glare.

Method: Exercises to enhance understanding of above concepts.
Application of concepts in design work.
Time problem to address design issues from climatology point of view.

REFERENCES:

SR.NO.	TITLE	AUTHOR
01.	Manual Of Tropical Housing	Otto.Koenigsberger
02.	Design Primer for Hot Climate	Allan Konya
03.	Design with Climate	Victor Olgyay
04.	Man, Climate & Architecture	B.Givoni
05.	Climatic Building Design	Donald Watson
06.	Building in Hot Climates	Building Research Establishment