

AR-307

CODE	SUBJECT	CREDITS
AR-307	ENV. SCIENCE-I	02
FOCUS		
	Built Environment & Climate	
CONTENT		
	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.	
METHODOLOGY		
	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:		
	1. Manual Of Tropical Housing - Otto.Koenigsberger 2. Design Primer for Hot Climate- Allan Konya 3. Design with climate- Victor Olgay 4. Man, Climate & Architecture - B.Givoni 5. Climatic Building Design- Donald Watson 6. Building in Hot Climates- Building Research Establishment	