

L J UNIVERSITY
L J SCHOOL OF DESIGN
Syllabus for Bachelors of Design
Third Year I Semester 6

CODE	SUBJECT	CREDIT
10180604	Climatology & Sustainable Design	2
AIM		
	<ul style="list-style-type: none"> • To focus on Climate and its impact on built environment and its interiors. Understanding climatology for various climatic zones as well as passive control devices used in interiors. • Gain insights and explore strategies related to the relationship between sustainability and space or object design. 	
CONTENT:-		
	<ul style="list-style-type: none"> • Solar radiation • Climatic zones within the tropical belt • Elements of climate: Effect of climate on man, shelter and interiors, Site Climate, Regional approach, Human comfort conditions, Principles of Thermal Design, Effect of Humidity and Ventilation, Lighting and acoustics, Principles of Sound, Passive Design Controls • Creating spaces able to catch attention by working functionality, aesthetics, efficiency and other environmental considerations. • How to build sustainable interiors with assertiveness and safety • Sustainability & the role of interior designer • Water Saving, Energy Efficiency, Air Quality • Sustainable Materials & Applications • Learn to Promote recycled or reusable materials as much as possible. • Understand how to reduce environmental impact, acquire different ways to improve energy efficiency. 	
METHODOLOGY:-		
	<ul style="list-style-type: none"> • Exercises to enhance understanding of above concepts. • Application of concepts in design work. • Case study 	
REFERENCE BOOK:-		
	<ul style="list-style-type: none"> • Design with Climate, Victor Olgyay • Climate of Gujarat, IMD, GOI • Climatic Building Design, Donald Watson • Urban Microclimate, Evyatar Erell, David Pearlmutter and Terry Williamson • Manual of Tropical Housing and Building, Otto Koenigsberger, T G Ingersoll, Alan • Mayhew and S V Szokoly • Climate Responsive Architecture, Arvind Krishna and others • Man Climate and Architecture, B. Givon 	