

GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for M. Arch - 2019
SECOND SEMESTER
Subject: Sustainable Architecture Studio – II

Course Code: X26101

Credits: 13

Course Objective: Sustainability & Energy efficiency techniques and thermal simulation for housing in various climates.

Course Contents:

Housing is the largest architectural building typology on earth in terms of numbers and space occupied. It also has the largest impact on quality of life and human comfort. Aspects such as indoor air quality, human comfort, use of materials and energy, thermal energy of building envelope etc will be the key focus of the studio along with sustainable land utilisation and planning.

Reference Books:

1. Bill Maclay, the new net zero: leading-edge design and construction of homes and buildings for a renewable energy future
2. Sascha Peters, Material Revolution. Sustainable and multi-purpose materials for design and architecture
3. Meg Calkins, The sustainable sites handbook: a complete guide to the principles, strategies, and best practices for sustainable landscapes
4. Greening Affordable Housing: An Interactive Approach 1st Edition, Abdullateef Olanrewaju, Zalina Shari, Zhonghua Gou
5. Going Green , A Handbook of Sustainable Housing Practices in Developing Countries
6. Sustainable Architecture High-Teach Housing, Arian Mostaedi