

PCHD4104 SUSTAINABLE ARCHITECTURE AND HABITAT MANAGEMENT (3-0-0)

Sustainable Development-various viewpoints:- Environmental Sustainability, Economic Sustainability and Social Sustainability.

Definition of Sustainable Architecture, Ecological Building-Environment, Building Fabric and Building Technology,

Principles of Sustainable Design, Sustainability and embodied energy and operational energy in building, Application

of Renewable Sources of energy, Eco-sensitive building materials, Waste reduction, Concept of recycling and

adaptive reuse , Cost reduction techniques in buildings.

Energy conservation through sustainable lighting design, Life Cycle Concept in Building Design, Design for

environment, Water and Energy Reduction, Indoor air quality and Rain Water harvesting.

References:

1. Ecology and Sustainable Development by P.S.Ramakrishnan
2. Houses: Reduce Building Costs by Laurie Baker
3. An Architecture for People: The Complete Works of Hassan Fathy by James Steele.
4. Papers on Green Architecture and Adaptive Reuse and various seminar proceedings on Sustainable and Green Architecture.