

### **PCHD4201 ADVANCED LANDSCAPE DESIGN (3-0-0)**

Hardscape and Soft scape elements in Landscape Design: Role of vegetation, windbreaks and shelterbelts; planting

for wind reduction around buildings, role of vegetation for noise control, controlling air quality and pollution control;

Matching plant materials to design criteria;

Landscape design for energy conservation: application of landscape elements in passive cooling, landscape design

strategies for water conservation, retrofitting for solar energy,

Site microclimate mapping, microclimate modification through landscaping, guidelines for site planning for energy

conservation and solar energy utilization, slope analysis and grading, drainage considerations;

Pedestrian systems, connectors and linkages, access for the handicapped.

Field identification of plants, shrubs and groundcovers suitable for tropical climates

Reference Books:.

1. Landscape design for energy conservation By Gary Robinette.

2. Tropical Gardens& Plants by Bose & Choudhury

3. Residential Landscaping by Theodore Walker.