

# Savitribai Phule Pune University

Ad-hoc Board of Studies in Sustainable Development

## Certificate course in Planning & Design for Sustainability (Advance)

**Eligibility** : 12<sup>th</sup> and above in any stream, Government Officials, Policy Makers, Elected representatives, Members and Managements of Co-operative Societies, Journalists, NGO representatives

**Objectives** : (1) To learn various aspects of planning and designing for sustainability  
(2) To develop skills for implementing actions required in sustainability.

**Duration of the Course** : 35 hours.

**Students Intake** : 10-15 students

**Course Fees** : Rs.8,000/-

**Admission process** : If the course is run for employees of an institute all the persons as selected by the institute authorities can appear. If the course is run by teaching institute for students. The admission will be first come first serve basis following UoP norms.

**Course Structure** : The course is equivalent of one credit. The course can run full time or part time.

### Syllabus :

Unit-1 : Urban and Rural Planning for sustainability development  
(L2,G4,P6)

Unit-2 : Sustainability practicles for Construction Industry  
(L2G4,P6)

Unit-3 : Tools and Techniques for Sustainability Planning and Design  
(L4,P6)

(L= Lecture, G=Group Discussion,P=Project Work)

**Methodology :** Lectures supplemented with demonstration or case study related visits.

**Assessment :** Final assessment by oral (50 marks) and group discussion performance (50 Marks). It will be converted to grades as per UoP norms.

**Certificate :** All the students passing the examination will be given certificate with grade. Those failing will be given certificate of attendance.

### **Reference Book list**

#### **Reference material Climate Change :**

The Climate Crisis: An Introductory Guide to Climate Change by David Archer and Stefan Rahmstorf

Why We Disagree About Climate Change: Understanding Controversy, Inaction and Opportunity by M.Hulme

The Science and Politics of Global Climate Change: A Guide to the Debate by Prof. Andrew Dessler and Edward A. Parson

Local Governments and Climate Change: Sustainable Energy Planning and Implementation in Small and Medium Sized Communities (Advances in Global Change Research) by Maryke van Staden and Francesco Musco

Structure of syllabus for a Certificate course under the faculty of

Sustainable Development, University of Pune 2012

Climate Change and Cities: First Assessment Report of the Urban Climate Change Research Network by Cynthia Rosenzweig, William D. Solecki, Stephen A. Hammer and Shagun Mehrotra

National Action Plan for Climate Change, India's Report Planning for Climate Change: Strategies for Mitigation and Adaptation for Spatial Planners by Simin Davoudi, Jenny Crawford and Abid Mehmood

India's Environmental Laws and Legislations

Handbook of Environmental Law in India by P. B. Sahasranaman

International Environmental Agreements: An Introduction (Routledge Research in Environmental Politics) by Steinar Andresen, Elin Lerum Boasson and Geir

Hønneland Urban Environmental Planning Systems Thinking and Decision Making in Urban and Environmental Planning by Anastassios Perdicoulis Environmental

Planning Handbook: For Sustainable Communities and Regions by Thomas L. Daniels Urban Environmental Planning: Policies, Instruments And Methods In An International Perspective (Urban Planning and Environment) by Donald Miller and Gert De Roo

Sustainable Urbanism: Urban Design With Nature by Douglas Farr Green Architecture & Site Planning TERI publications on Green Design / Sustainable Design Manuals

Climate Considerations in Building and Urban Design by Baruch Givoni and Bar Givoni

Passive Low Energy Cooling of Buildings (Architecture) by Baruch Givoni Man, Climate and Architecture (Architectural Science) by Baruch Givoni Environmental Management Introduction to Environmental Management by Mary K. Theodore and Louis Theodore

Tools for Environmental Management: A Practical Introduction and Guide by Dixon Thompson Environmental Technologies

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Sustainable Development, University of Pune [2012](#)

Introduction to Environmental Engineering and Science (3rd Edition) by Gilbert M. Masters and Wendell P. Ela

Renewable Energy Systems: The Earthscan Expert Guide to Renewable Energy Technologies for Home and Business (Earthscan Expert Series) by Dilwyn Jenkins

Sustainable Lifestyles Simple Prosperity: Finding Real Wealth in a Sustainable Lifestyle by David Wann DIY Projects for the Self-Sufficient Homeowner: 25 Ways to Build a Self-Reliant Lifestyle by Betsy Matheson

Green Living: How To Live A More Sustainable, Earth Friendly Lifestyle by Kathy Burns-Millyard (\* Additional reference reading will be suggested based on inputs from faculty)