



# **St. Xavier's College – Autonomous, Mumbai**

## **Syllabus For 1<sup>st</sup> Semester Courses in Special Course (June 2013 onwards)**

Contents:

Theory Syllabus for Course:

A.SPC 1.01– Environmental Studies

C.SPC 1.01– Environmental Studies

S.SPC 1.01– Environmental Studies

**FYBA/BSc/BMM/BMS/BSc IT- SPECIAL COURSE**

**Course: A.SPC.1.01  
C.SPC 1.01  
S.SPC 1.01**

**Title: Environmental Studies**

**Learning Objectives:**

1. To familiarize students to the basic concepts of Environmental studies.
2. To help students develop their own perspectives around environmental issues.
3. To enable students to take practical steps to conserve the environment.

**Number of lectures: 45**

**UNIT 1**

**Environment**

**[12 lectures]**

- a. Definition and Composition – Lithosphere, Hydrosphere, Atmosphere, Biosphere, Hydrological Cycle
- b. Historical Development and Approaches
- c. Man and Nature relation and interaction with respect to Food, Clothing, Shelter and Occupation : Concept of Ecology and Ecosystem.

**UNIT 2**

**Resources and Wealth**

**[12 lectures]**

- a. Meaning, Types of Resources, Exploitation of Resources, use of Technology and its Impact on Natural Environment
- b. Wealth – meaning, Distinction between wealth and resources, Optimum Conversion of Resources into wealth
- c. Anthropogenic Waste – its effects, Man made Industrial waste.

**UNIT 3**

**Environmental Degradation**

**[12 lectures]**

- a. Meaning, causes : Degradation of Urban Land, Forest and Agricultural Land due to natural causes and human interference.
- b. Global Warming : Problems of non-degradable Waste – Electronic Devices, Plastic and Man- made fibres.
- c. Environmental Assessment – Environmental Impact Assessment (EIA), Environmental Auditing, Environmental Legislation in India, Carbon Bank.

**UNIT 4**

**Environmental Management**

**[9 lectures]**

- a. Meaning, development and environmental linkages.
- b. Environmental concerns in India. The need for sustainable development.
- c. Actions for environmental Protection: national and international initiatives, emerging environment management strategies, Indian initiatives.
- d. Environmental Protection Movements and NGOs in India.

**CIA: Projects / Presentations / Tests**

**List of Recommended Reference Books:**

1. R. Rajagopalan, R. (2005) *Environmental Studies – From Crisis to Cure*. Delhi: OUP

**Additional reading:**

1. Guha Ramachandra Environmentalism: A global history (OUP) (2000)

**Audio Visual Aids:**

1. An Inconvenient Truth, Al Gore
2. The 11<sup>th</sup> Hour, Leonardo DiCaprio
3. The Age of Stupid. Franny Armstrong.
4. Baraka, Ron Fricke.
5. Climate change: An Untold Story [Climate's First Orphans; The Weeping Apple Tree; A Degree of Concern; A Green Agony], Discovery Channel.
6. Liquid city--Mathew Gandy.
7. Story of Stuff --Free Range Studios Tides Foundation.
8. Story of bottled water---Free Range Studios Tides Foundation