



SYMBIOSIS COLLEGE OF ARTS & COMMERCE

An Autonomous College | Under Savitribai Phule Pune University
 Reaccredited 'A+' with 3.51 CGPA For Third Cycle By NAAC | College with Potential for Excellence

Course Code:

Contemporary Issues in Geography - 1

Course Learning Outcomes:

On successful completion of the module students will be able to:

1. Develop scientific understanding of probable hazards in their surroundings & syllabus aims to create awareness regarding environmental sustainability.
2. Evaluate the environmental disasters in analytical manner, understand human role in lowering the frequency, intensity of environmental disasters.
3. Involve in finding out solutions and develop ideas to reduce the risk of fatal, social and economic losses caused by natural disasters.

Gist of this course in maximum 3 to 4 lines

**To introduce students with natural hazards & disasters for developing geographical dimensions/perspectives of the same.
 To create awareness among the students about the scope of Earth and Atmospheric Sciences and related phenomena.
 To enable students with contemporary geographical tools GIS and Remote Sensing for problem solving and planning.**

Detailed syllabus

Unit	CONTENTS OF THE COURSE	No. of Lectures
1.	Title of The Topic: Introduction to Contemporary issues in Geography a. Nature and Relevance of contemporary issues in Geography. b. Nature and Scope of Earth and Atmospheric Sciences.	04
2.	Title of The Topic: Geomorphic Issues a. GLOF- Glacial Lake Outburst Floods b. Landslides Hazards- Mass Movements c. Earthquakes & Tsunamis	10
3.	Title of The Topic: Climatic Issues a. Floods and droughts hazards with special reference to India b. Green House Gases and Global warming c. Features related to Indian SW Monsoon-IOD, Madden Julian Oscillation, Role of TEJ, ITCZ, ENSO	10
4.	Title of The Topic: Hydrological Issues a. Concepts related Watershed Management b. Interlinking of rivers in India c. Glimpses of Global Water Crisis	10

5.	Title of The Topic: Worldwide Issues in Oceanography and Biogeography a. Coastal and Marine Pollution b. Forest Fires and Deforestation c. Geographical spread of epidemics	10
6.	Application of GIS and Remote Sensing for Problem solving & Planning a. Geomorphic Studies- DEM creation, Drainage morphological studies b. Climatological Studies- Tropical Cyclones forecast, Heat Waves & Heat Stress c. Hydrological Studies- Jalyukta Shivar Programme d. Biogeographical Studies- Animals Path Tracking, Forest Fires Vigilance	10
	Total Number of Lectures	54

Suggested Reference Books:

- 1. Introduction to Geomorphology by Vishwas Kale and Avijit Gupta**
- 2. Environmental Geography by Savindra Singh**
- 3. Contemporary Issues and Techniques in Geography by by Suranjan Das edited by Ranjan Basu, Sukla Bhaduri**
- 4. The Atmosphere-Introduction to Meteorology by by Edward J. Tarbuck, Frederick K. Lutgens, Dennis Tasa**