



**Birla Institute of Technology & Science, Pilani**  
Hyderabad Campus

## **SECOND SEMESTER 2018-19**

### Course Handout (Part II)

07/01/2019

In addition to part I (General Handout for all courses appended to the time table) this portion gives further specific details regarding the course.

Course No. : GS F212  
Course Title : *Environment, Development and Climate Change*  
Instructor-in-charge : Dr. Lavanya Suresh  
Co-Instructor : Mr. Vinay Sankar P

**1. Scope and Objectives:** This course focuses on the concepts of environment, development, and climate change in the contemporary world. This course focuses on the nature and causes of environmental problems in developing countries. Attention is given to both the causes and solutions of environmental problems and the role of state and non-state actors interacting at local, national and global scales. The objective of the course is to make the students aware of the debates and issues relating to environment, development and climate change. The goal of this course is for the learners to appreciate the people-environment relations and to understand the anthropocentric dynamics of development and climate change.

### **2. Learning Outcomes:**

- By the end of the course, students will be able to appreciate role of various demographic, sociological and political factors influencing the environment and the processes of development
- Students will learn to identify and critically assess institutional and political strategies for managing environment and natural resources through various theoretical concepts and case studies
- By the end of this course, students will be able to differentiate between optimal and dangerous levels of Climate Change and its relationship with Development
- By the end of the course, students will be able to analyze the everyday impact of human activities on environment and suggest modes of mitigating it through public policy

**3. Text Books (TB)** Rangarajan, Mahesh. 2006. *Environmental Issues in India: A Reader*. New Delhi: Pearson Education India

**Please Note:** *This is a reading intensive course.*

### **Reference books (Ref):**

- a) Adams, W.M. 2009. *Green Development: Environment and Sustainability in a Developing World*. 3rd Edition. New York: Routledge

- b) Robbins, P. 2004. *Political Ecology, A Critical Introduction*. Oxford: Blackwell Publishing. (only chapter 1)
- c) Bryant, Raymond L., and Sinead Bailey. 1997. *Third World Political Ecology*. London: Routledge (only Introduction, chapter 1 and 2)
- d) Roberts, J. Timmons and Bradley C. Parks. 2007. *Climate of Injustice: Global Inequality, North-South Politics, and Climate Policy*. Cambridge: MIT Press. (only chapter 1 and 2)

#### Articles and reports:

- a) Lele, Sharachchandra M. 1991. Sustainable Development: A Critical Review. *World Development* 19 (6):607-621
- b) Intergovernmental Panel on Climate Change (IPCC). 2014: *Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Geneva: IPCC
- c) Agarwal, Anil and Narain, Sunita. 1991. *Global Warming in an Unequal World: A Case of Environmental Colonialism*. New Delhi: Centre for Science and Environment
- d) Our Common Future: Report of the World Commission on Environment and Development
- e) Documentaries

**4. Course Format:** The course format will be interactive with regular class discussions and several group exercises, film screening and presentations. Students are expected to prepare in advance with the help of reading material provided.

#### 5. Course Plan:

Lecture No.	Learning Objectives	Topics to be covered	Chapter in the text book
1-5	Describe the scope and significance of the concept of sustainable development	Sustainable development, sustainability, population dynamics	<i>Ref a:</i> Chapter 1, 2, 3 and 4 <i>Article a:</i> Lele, Sharachchandra
6-9	Explain the counter currents to sustainable development	Population, resources and sustainability; Counter currents to sustainable development	<i>Ref a:</i> Chapter 5, 6 and 7
10 – 16	Analyse the relationship between resources and sustainability	Resources and sustainability: Dry land, Forests, Conservation, Rivers, Industry, Energy resources	<i>Ref a:</i> Chapter 8, 9, 10, 11, 12,13
17-21	Critically analyse sustainability, policies, environmental movements	Sustainability and policies, Environmental movements, Environment and development	TB: Introduction, Chapter 8
22-24	Analyse and evaluate the problems of food security and poverty	Case Study: Food security, poverty, impact and solutions in India	TB: Chapter 11
25-28	Examine the theory of commons	Common Property Resource and the Rural Poor	TB: Chapter 14
29-30	Appraise and assess water resources and traditional practices	Case study: water conservation	TB: Chapter 15
31-36	Analyse and evaluate case	Case Studies: Gender	TB: Chapter 19,

	studies on environment, development and climate change	Environment, Sacred Groves, Ecological conflicts	21, 22
37-39	Discuss and assess climate change	Development and climate change; growth, technology and greenhouse gas emissions, carbon credit; regional impacts of climate change and adaptation strategies	<i>Report:</i> Intergovernmental Panel on Climate Change (IPCC) report. 2014
40-42	Discuss and assess the concept of vulnerability, risk and adaptation.	Regional, national and international climate debates; Review of international climate negotiations such as Kyoto, Copenhagen and other declarations; Climate change models	<i>Ref d:</i> Chapter 1 and 2 from Roberts, J. Timmons and Bradley C. Parks. 2007. <i>Climate of Injustice</i> <i>Article:</i> Agarwal, Anil and Narain, Sunita. 1991.

## 6. Evaluation:

Component	Duration	Weightage (%)	Date & Time	Nature of Component
Mid-Sem	90 min	30	14/3 1.30 -3.00 PM	Closed book
Assignment	Take home			
a) Assignment 1		15		Open book
b) Assignment 2		15		Open book
Comprehensive Exam	3 hours	40	09/05 FN	Closed book

**7. Chamber Consultation Hour:** Will be announced in class.

**8. Notices:** Notices, if any, concerning the course will **only** be displayed on CMS

**9. Make-up Policy:** Make-up component will be allowed provided there is documentary support to prove the authenticity of the case.

**10. Academic Honesty and Integrity Policy:** Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

**INSTRUCTOR-IN-CHARGE**