



## Environment, Development and Climate Change

### Course Handout

Semester 1 2021-22

**Course No.** : GS F212

**Course Title** : Environment, Development and Climate Change

**Instructor-in-charge** : Dr. Rajiv Kumar Chaturvedi

**1. Course Description:** This course focuses on the concepts of environment, development, and climate change in the contemporary world. The course traces the evolution of our environmental crisis (including climate change) in response to unsustainable development in the Anthropocene (especially since mid of the 20<sup>th</sup> century). With the adoption of Sustainable Development Goals (SDGs) by 193 member States of the United Nations and global civil society in 2015, Sustainable Development paradigm is now mainstreamed. This course explores as to how this new development paradigm may mitigate the environmental crisis, and how nations, states, businesses and communities could align themselves to this new paradigm, benefit and contribute to the success of these goals in the next decade (by 2030). Students will learn to identify and critically assess strategies for managing environment and natural resources through various theoretical concepts and case studies. 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.

**2. Scope and Objective of the Course:** The objective of the course is to make the students aware of the environmental crisis facing the humanity, and how the new sustainable development paradigm could mitigate this crisis in addition to ensuring a better life style for a burgeoning world population. Further, the course aims to connect the students with this new development paradigm by introducing them to the theories and case-studies of how nations, states, businesses (including entrepreneurs) and communities have aligned themselves to environmental sustainability.

### **3. Text Books (TB):**

A. Humphrey R. Craig, Tammy L. Lewis and Frederick H. Buttel (2002), Environment, Energy, and Society. Wadsworth Group, USA.

B. Hempel, C. Lamont (1998), Environmental Governance: The Global Challenge, Affiliated East-West Press Pvt Ltd, New Delhi.

### **4. Reference Material- Books/Papers (RM):**

Book chapters, Journal papers, study materials from the Intergovernmental Panel on Climate Change, films and newspaper report will be given in advance as reading materials before each





session. Students should be prepared to think out of box for maximizing their learning curve. List of some of the useful books is provided below:

1) John W. Kress, Jeffrey K. Stine, Edward O. Wilson, Elizabeth Kolbert, Thomas E. Lovejoy (2017) Living in the Anthropocene: Earth in the Age of Humans, Smithsonian Books, ISBN1588346455, 9781588346452, PP 208

2) Johan Rockström, Mattias Klum (2015) Big World, Small Planet: Abundance Within Planetary Boundaries, Yale University Press, PP 206

3) Jeffrey D Sachs (2015) The age of Sustainable Development, Columbia University Press, New York (version that is updated after the SDG formulation by the UN)

**5. 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 and through self initiative.

**6. Course outcomes:**

By the end of the course students will be able to understand the role of humans in shaping the environment; students will learn to identify and critically assess strategies for managing environment and natural resources through various theoretical concepts and case studies. Students will be able to analyze the everyday impact of human activities on environment and will be able to think about innovative ways to mitigate it.

**7. Evaluation/Grading:**

Component	Duration	Weightage %	Date	Remarks
Presentation and Assignment	20 minutes per presentation + Class Assignments	20%	TBA	Presentation will be a group based activity with case studies
Attending other's presentation		10%		
Mid-semester Test	90 minutes	30%	22/10/2021	TBD
Compre. Exam.	TBD	40%	18/12/21	TBD

**8. Course Plan:**





S.No	Topic	No. of Lectures	Reading Material
1	Evolution of our Environment – Earth is the only home we have got	2	TB, RM
2	Anthropocene and its impact on our Environment	3	TB, RM
3	Environmental destruction and Planetary Boundaries	4	TB, & RM
4	Causes of Environmental Destruction	3	TB, & RM
5	Climate Change: Evidence, Impacts, Projections and limits to adaptation	6	TB, RM
6	The Environmental Policy-Making Process	4	RM
7	Political Ecology	4	
8	Sustainable Development paradigm (with focus on Climate Action)	6	TB, & RM
9	A critique of sustainable development paradigm	3	TB, & RM
10	Sustainable development – opportunities and challenges	5	TB, RM
		Total: 40	

**9. Consultation Hour:** To be announced in class and displayed on Moodle Photon

**10. Notices:** Notices concerning the course will be displayed in the Moodle Photon

**Dr. Rajiv Kumar Chaturvedi**

**Instructor-in-charge**

**GSF212**

