

GENERIC ELECTIVES (GE-07): CONTEMPORARY ENVIRONMENTAL ISSUES

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course	Department offering the course
		Lecture	Tutorial	Practical/ Practice			
CONTEMPORARY ENVIRONMENTAL ISSUES	4	3	1	-	-	-	GEOGRAPHY

Learning Objectives

- To understand the basic concepts of human environment and the resultant impact.
- To evaluate the contemporary environmental issues world over.
- To assess each problem in detail along with a case study of the best practices in the world.
- To discuss the global level initiatives or policies related to these issues.

Learning Outcomes

- The changes that have taken place due to the human impact on nature.
- Recognize the concept of planetary boundaries and how humanity has already crossed the tipping point.
- Have an understanding of both the problems and some specific solutions.
- An in-depth understanding on the global policies and where the world stands today.
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SYLLABUS OF GE-07

Unit-I:

Understanding the human environment relationship and its historical progression, concept of planetary boundaries.

Unit-II:

Biodiversity Loss (causes and impacts), Conservation and Global initiatives, Case study on best practices.

Unit-III:

Pollution- Air and Water (causes and impacts), Solid Waste (impact and management), Global initiatives, case Study on best practices.

Unit-IV:

Land Degradation (causes and impacts), Global initiatives, Case Study on best practices.

Unit-V:

Climate Change: Concept, Adaptation and Mitigation.

Suggested Readings

1. Brusseau M L, Pepper I L and Gerba C P (2019) Environmental and Pollution Science, Academic Press, USA.

2. Cunningham, WP and Cunningham, M A (2004) *Principals of Environmental Science: Inquiry and Applications*, Delhi: Tata Macgraw Hill.
3. Goudie A (2001) *The Nature of the Environment*, Blackwell, Oxford, UK: Blackwell.
4. Haris F (Ed) (2004) *Global Environmental Issues*, John Wiley and Sons, W Sussex.
5. Kemp D D(1994)*Global Environmental Issues: A Climatological Approach*, Routledge London and NY.
6. Pickering K T and Owen L A (2017)*An Introduction to Global Environmental Issues*, Routledge London (eBook).
7. Raven P H, Berg L R, Hassenzehl D M et al. (2015) *Environment*, John Wiley and Sons, Jefferson City.
8. Rich Nathalien(2020) *Losing Earth: A Recent History*, Picador, New York.
9. Rockstrom J and Gaffney O (2021) *Breaking Boundaries: The Science of Our Planet*, Penguin Random House LLC.
10. Sivaperuman, Chandrakasan. et al. (2018) *Biodiversity and Climate Change Adaptation in Tropical Islands*, London, UK: Academic Press.
11. Tsing A Lowenhaupt et al. (Ed) (2017) *Arts of Living on a Damaged Planet: Ghosts and Monsters of the Anthropocene*, University of Minnesota Press, Minneapolis.
12. Wright RT and Boorse DF (2010) *Towards a Sustainable Future*, PHI Learning Pvt Ltd, New Delhi.