

GENERIC ELECTIVES (GE-8): ENVIRONMENTAL ECONOMICS AND

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 (if any)
		Lecture	Tutorial	Practical/ Practice		
Environmental Economics and Climate Change (GE8)	4	3	1	0	Class 12	None

Learning Objectives

This course aims at inculcating an understanding of:

- How economic activities are affecting the environment.
- Social value of environmental resources.
- Climate change and its consequences.
- Efficient and effective policy measures for protecting the environment.

Learning outcomes

By studying this course, students will be able to:

- Understand the linkage between environment and economics.
- Learn the basic theories of environmental economics.
- Understand the basic terminologies related to environment and Climate change.
- Analyse the effects of climate change on India and its future plan for environmental protection and mitigation.

SYLLABUS OF GE-8

UNIT - I: Introduction (8 hours)

Introduction to Environmental Economics, Material Balance model- economy environmental interactions, reasons for environmental degradation (population, technology, GDP), balance between environment and growth.

Unit 2: Economic Growth and Environmental Degradation (12 hours)

Theories of relationship between economic growth and environmental degradation: The environmental Kuznets curve hypothesis, The Brundtland Curve hypothesis, The environment Daly Curve hypothesis.

Unit 3: Climate Change and its Challenges (12 hours)

Introduction to the Climate Change, Drivers of Climate Change, Global impacts of Climate Change: Anthropogenic, Global warming, ozone hole, biodiversity loss, ecosystem services, natural capital and resources. Effect of Climate Change on India: Agriculture, Biodiversity, vulnerability of Coastal Belt, Rural Livelihoods and Food Security in India.

Unit 4: Actions Taken and Policy Framework (13 hours)

Global Level: Adaptation and Mitigation, Governmental and Intergovernmental Actions to Combat Climate Change: The Role of the Intergovernmental Panel on Climate Change (IPCC), United Nations Framework Convention on Climate Change, The Kyoto Protocol, Paris Agreement etc. The global

carbon market (CDM, JI, ET).India's Position on International Climate Negotiations, India's National Action Plan on Climate Change.

Essential/recommended readings

1. Callen,Thomas (2007). Environmental Economics, Thomson Learning Inc. Indian Edition.
2. Dubash, Navroz (2012). Handbook of Climate Change and India: Development, Politics and Governance, Earthscan
3. Bhattacharya, R. N. (ed.) (2001). Environmental Economics, An Indian Perspective, Oxford University Press.

Suggestive readings

1. Romm, J.J. 2018. Climate change: What Everyone Needs to Know. Oxford University Press
2. Dash. S.K. 2008. Climate Change, Cambridge University Press

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.