



Indraprastha College for Women

University of Delhi

Course Name:	B.A. (H) Philosophy, B.A. (P) Sem.III: Sec. A
Paper Title:	Environmental Science: Theory into Practice II
Unique Paper Code:	2181002001
Semester:	III
Faculty(s):	Dr. Neha Mishra
Year:	2024

Work Plan (Theory)			
Period	Unit No.	Learning Objective	Topics to be Covered
1 st Aug -3 rd Aug	I	Understanding of Global Environmental Issues and Policies	Causes of Climate change, Global warming; Impacts on human communities, biodiversity, global economy, and agriculture
5 th Aug-10 th Aug			Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture
12 th Aug-17 th Aug			International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto protocols
19 th Aug-24 th Aug			Convention on Biological Diversity (CBD), Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc.
26 th Aug-31 st Aug			Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions.
2 nd Sep-7 th Sep			Environment legislation in India: Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980; Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest

			Dwellers (Recognition of Forest Rights) Act, 2006
9 th Sep-14 th Sep	II	Understand the concept of Biodiversity and its threat and conservation	Definition of Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity. Biogeographic zones of India;
16 th Sep-21 st Sep			India as a mega-biodiversity nation, Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples, Biodiversity hotspots;
23 rd Sep-28 th Sep			Endemic and endangered species of India; IUCN Red list criteria and categories, Threats to biodiversity, Man-wildlife conflicts; Biological invasion with emphasis on Indian biodiversity; Current mass extinction crisis
30 th Sep-5 th Oct			Biodiversity conservation strategies: in-situ and ex-situ methods of conservation; National Parks, Wildlife Sanctuaries, and Biosphere reserves; Keystone, Flagship, Umbrella, and Indicator species; Species reintroduction and translocation
7 th Oct-12 th Oct			Case <i>studies</i> : Contemporary Indian wildlife and biodiversity issues, movements, and projects (e.g., Project Tiger, Project Elephant, Vulture breeding program, Project Great Indian Bustard, Crocodile conservation project, Silent Valley movement, Save Western Ghats movement, etc)
14 th Oct-19 th Oct			Class test & Presentation
21 st Oct-26 th Oct	III	Understanding of Human population and its impact on Environment.	Human population growth: Impacts on environment, human health, and welfare: Carbon footprint
28 th Oct-2 nd Nov			MID SEMESTER BREAK
4 th Nov-9 th Nov	III	Understanding of Human population and its impact on Environment.	Human population growth: Impacts on environment, human health, and welfare:

			Carbon footprint, Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies
11 th Nov-16 th Nov			Environmental movements: Chipko movement, Appiko movement etc, National Green Tribunal,
18 th Nov-23 rd Nov			Environmental ethics; Role of various religions and cultural practices in environmental conservation, Environmental communication and public awareness: case studies (e.g. , CNG vehicles in Delhi,
25 th Nov-27 th Nov			Swachh Bharat Abhiyan, National Environment Awareness Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc) Revision and Discussion of previous year question papers
28 th Nov	DISPERSAL OF CLASSES		

Work Plan (Practical)			
Period	Unit No.	Learning Objective	Topics to be Covered
1 st Aug -3 rd Aug	I	Global Environmental Issues and Policies	Depict temperature/precipitation trend of a given study area using online data
5 th Aug-10 th Aug			Submission and correction
12 th Aug-17 th Aug			Assess Nationally Determined Contributions (NDCs) of developed and developing countries
19 th Aug-24 th Aug			Assess Nationally Determined Contributions (NDCs) of developed and developing countries
26 th Aug-31 st Aug			Submission and correction
2 nd Sep-7 th Sep			Identify carbon footprint of your college/home/locality (refer wwf@envs.nic.in).
9 th Sep-14 th Sep			II
16 th Sep-21 st Sep	Submission and correction		

23 rd Sep-28 th Sep			Depict distribution of biodiversity across latitude and altitude
30 th Sep-5 th Oct			Sampling of plant and animal biodiversity of the College campus
7 th Oct-12 th Oct			Identification of the floral diversity of Delhi and other states.
14 th Oct-19 th Oct			Class test & Presentation
21 st Oct-26 th Oct			Submission and correction
28 th Oct-2 nd Nov			MID SEMESTER BREAK
4 th Nov-9 th Nov	III	Understanding of Human population and its impact on Environment.	Formulation of questionnaire/online surveys for assessment of the impact of environmental education
11 th Nov-16 th Nov			Correlation analysis of human population growth and impacts on the environment and human health
18 th Nov-23 rd Nov			Submission and correction
25 th Nov-27 th Nov			Project submission and evaluation
28 th Nov	DISPERSAL OF CLASSES		

Unit	TOPICS
I	<p>Global Environmental Issues and Policies:</p> <p>Causes of Climate change, Global warming, Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture</p> <p>International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto protocols, Convention on Biological Diversity (CBD), Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc.</p> <p>Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions</p> <p>Environment legislation in India: Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980; Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006</p>

II	<p>Biodiversity and Conservation:</p> <p>Definition of Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity</p> <p>India as a mega-biodiversity nation; Biogeographic zones of India; Biodiversity hotspots; Endemic and endangered species of India; IUCN Red list criteria and categories</p> <p>Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples</p> <p>Threats to biodiversity: Habitat loss, degradation, and fragmentation; Poaching of wildlife; Man-wildlife conflicts; Biological invasion with emphasis on Indian biodiversity; Current mass extinction crisis</p> <p>Biodiversity conservation strategies: in-situ and ex-situ methods of conservation; National Parks, Wildlife Sanctuaries, and Biosphere reserves; Keystone, Flagship Umbrella, and Indicator species; Species reintroduction and translocation</p> <p><i>Case studies:</i> Contemporary Indian wildlife and biodiversity issues, movements, and projects (e.g., Project Tiger, Project Elephant, Vulture breeding program, Project Great Indian Bustard, Crocodile conservation project, Silent Valley movement, Save Western Ghats movement, etc)</p>
III	<p>Human Communities and the Environment:</p> <p>Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print</p> <p>Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies</p> <p>Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc</p> <p>Environmental justice: National Green Tribunal and its importance Environmental philosophy: Environmental ethics; Role of various religions and cultural practices in environmental conservation</p> <p>Environmental communication and public awareness: case studies (e.g. , CNG vehicles in Delhi, Swachh Bharat Abhiyan, National Environment Awareness Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc)</p>
S. No.	Name of Authors/Books/Publishers
1.	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y., and Berg, L.R. Environment, 8th Edition. Wiley Publishing, USA. 2015
2.	Singh, J.S., Singh, S.P., and Gupta, S.R. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. 2017
3.	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. Environmental and Pollution Science, 3rd Edition. Academic Press, USA. 2019

4.	Carson, R. Silent Spring. Houghton Mifflin Harcourt, USA. Pp. 1-264. 2002
5.	Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. 2002