



Indraprastha College for Women University of Delhi

Course Name:	BAP, B.A. (hons.) Geography
Paper Title:	Environmental Science: Theory into Practice II
Unique Paper Code:	2181002001
Semester:	III
Faculty(s):	Viniti Nagar
Year:	2024

Work Plan			
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, Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture
5 th Aug-10 th Aug			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.
12 th Aug-17 th Aug			Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions.
19 th Aug-24 th Aug			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
26 th Aug-31 st Aug	II	Understand and apply the scientific concept of Biodiversity and its threat and conservation.	Definition of Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity. India as a mega-biodiversity nation; Biogeographic zones of India; Biodiversity hotspots; Endemic and endangered species of India; IUCN Red list criteria and categories

2 nd Sep-7 th Sep			Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples. 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
9 th Sep-14 th Sep			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
16 th Sep-21 st Sep			Case studies: 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)
23 rd Sep-28 th Sep			Assessment
30 th Sep-5 th Oct	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
7 th Oct-12 th Oct			Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc
14 th Oct-19 th Oct			Environmental justice: National Green Tribunal and its importance
21 st Oct-26 th Oct			Environmental philosophy: Environmental ethics; Role of various religions and cultural practices in environmental conservation
28 th Oct-2 nd Nov			MID SEMESTER BREAK
4 th Nov-9 th Nov			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)
11 th Nov-16 th Nov			Revision
18 th Nov-23 rd Nov			Assessment
25 th Nov-27 th Nov			Doubts discussion
28 th Nov	DISBERSAL 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>Case studies: 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</p> <p>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.
2.	Singh, J.S., Singh, S.P., and Gupta, S.R. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.
3.	Brusseau, M.L., Pepper, I.L. and Gerba, C.P. Environmental and Pollution Science, 3rd Edition. Academic Press, USA.
4.	Carson, R. Silent Spring. Houghton Mifflin Harcourt, USA. Pp. 1-264.
5.	Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India.