



Indraprastha College for Women

University of Delhi

Course Name:	BAP Section-D
Paper Title:	Environmental Science-Theory into Practice-II
Unique Paper Code:	2181002001
Semester:	III
Faculty(s):	Arvind Kumar Negi
Year:	2 nd

Work Plan			
Period	Unit No.	Learning Objective	Topics to be Covered
1 st Aug -3 rd Aug	1	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	1	Global Environmental Issues and Policies	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,
12 th Aug-17 th Aug	1	Global Environmental Issues and Policies	Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions
19 th Aug-24 th Aug	1	Global Environmental Issues and Policies	Environment legislation in India: Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980;
26 th Aug-31 st Aug	1	Global Environmental Issues and Policies	Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006
2 nd Sep-7 th Sep	1	Assessment	Practical/Exercises/doubt clearing session,discussion
9 th Sep-14 th Sep	2	Biodiversity 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 -Outreach/Experiential Activity
16 th Sep-21 st Sep	2	Biodiversity and Conservation	Value of biodiversity: Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples
23 rd Sep-28 th Sep	2	Biodiversity and Conservation	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
30 th Sep-5 th Oct	2	Biodiversity and Conservation	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	2	Biodiversity and Conservation	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	3	Human Communities and Environment	Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print
21 st Oct-26 th Oct	3	Human Communities and Environment	Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies
28 th Oct-2 nd Nov			MID SEMESTER BREAK
4 th Nov-9 th Nov	3	Human Communities and Environment	Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc Environmental justice: National Green Tribunal and its importance

11 th Nov-16 th Nov	3	Human Communities and Environment	Environmental philosophy: 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, Swachh Bharat Abhiyan, National Environment Awareness Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc)
18 th Nov-23 rd Nov		Revision	All Units
25 th Nov-27 th Nov		Assesment	Practical/Exercises/doubt clearing session,discussion
28 th Nov	DISPERSAL OF CLASSES		

Unit	TOPICS
I	Causes of Climate change, Global warming, Ozone layer depletion, and Acid rain; Impacts on human communities, biodiversity, global economy, and agriculture 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 Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions 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
II	Definition of Biodiversity; Levels of biological 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 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; 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 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)
III	Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print; Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies; Environmental movements: Chipko movement, Appiko movement, Silent valley movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc; Environmental justice: National Green Tribunal and its importance Environmental philosophy: 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, Swachh Bharat Abhiyan, National Environment Awareness Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc)

S. No.	Name of Authors/Books/Publishers
1.	Divan, S. and Rosencranz, A. (2002). <i>Environmental Law and Policy in India: Cases, Material & Statutes</i> , 2nd Edition. Oxford University Press, India. Chapter 2 (Pages: 23-39); Chapter 3 (Pages: 41-86).
2.	Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). <i>Environment</i> , 9th Edition. Wiley Publishing, USA. Chapter 19 (Pages: 370-376); Chapter 20 (Pages: 385-399).
3.	Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). <i>Ecology, Environmental Science and Conservation</i> . S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807)