



Indraprastha College for Women University of Delhi

Work Plan for ODD SEMESTER –2026

Course Name:	BA Program Sec A
Paper Title:	Environmental Science- Theory into Practice-II
Unique Paper Code:	2181002001
Semester:	III
Faculty:	Dr. Nawin Kumar Tiwary
Year:	2025-26

Work Plan			
Period	UnitNo.	LearningObjective	TopicstobeCovered
1 st Aug-3 rd Aug	1	GlobalEnvironmentalIssuesand 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		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		Sustainable Development Goals: India's National Action Plan on Climate Change and its major missions
19 th Aug-24 th Aug	1		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		Air(Prevention & Control of Pollution) Act, 1981; EnvironmentProtectionAct,1986; Scheduled Tribes andotherTraditionalForestDwellers (Recognition of Forest Rights) Act, 2006
2 nd Sep-7 th Sep	1		Practical/Exercises/Experiential activities/Outreach activities
9 th Sep-14 th Sep	2	BiodiversityandConservation	DefinitionofBiodiversity;Levels of biologicaldiversity:genetic, species

			and ecosystemdiversity Indiaasamega-biodiversitynation; Biogeographic zones of India; Biodiversity hotspots; Endemic and endangered speciesofIndia;IUCNRedlistcriteria and categories -Outreach/ExperientialActivity
16 th Sep-21 st Sep	2		Value of biodiversity: Ecological, economic,social,ethical,aesthetic, and informationalvaluesofbiodiversity with examples; sacred groves and their importance with examples
23 rd Sep-28 th Sep	2		Threatstobiodiversity:Habitatloss, degradation, and fragmentation; Poachingof wildlife; Man-wildlife conflicts; Biologicalinvasionwithemphasis on Indian biodiversity;Currentmassextinction crisis
30 th Sep-5 th Oct	2		Biodiversityconservationstrategies: in-situ and ex-situ methods of conservation; NationalParks,WildlifeSanctuaries, and Biosphere reserves; Keystone, Flagship, Umbrella,andIndicatorspecies; Species reintroduction and translocation

7 th Oct-12 th Oct	2		Casestudies:ContemporaryIndian wildlife and biodiversity issues, movements, and projects (e.g., Project Tiger, Project Elephant, Vulturebreedingprogram, Project Great Indian Bustard, Crocodile conservationproject,SilentValley movement, Save Western Ghatsmovement, etc)
14 th Oct-19 th Oct	3	HumanCommunitiesand Environment	Humanpopulationgrowth:Impacts onenvironment, humanhealth, and welfare; Carbonfoot-print
21 st Oct-26 th Oct	3		Resettlementandrehabilitationof developmental project affected persons and communities;relevant casestudies
4 th Nov-9 th Nov	3		Environmentalmovements:Chipko movement, Appiko movement, Silentvalley movement,BishnoisofRajasthan, Narmada Bachao Andolan, etc Environmental justice: National GreenTribunalanditsimportance

Unit	Contents/Syllabus
I	CausesofClimatechange,Globalwarming,Ozonelayerdepletion,andAcidrain;Impactsonhuman communities, biodiversity, global economy, and agriculture Internationalagreementsandprogrammes:EarthSummit,UNFCCC,MontrealandKyotoprotocols, 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 WildlifeProtectionAct,1972;Water(PreventionandControlofPollution)Act,1974;Forest (Conservation)Act1980;Air(Prevention&ControlofPollution)Act,1981; EnvironmentProtection Act,1986;ScheduledTribesandotherTraditionalForestDwellers(RecognitionofForestRights)Act, 2006
II	Definition of Biodiversity; Levels of biological diversity; India as a megabiodiversity nation; BiogeographiczonesofIndia;Biodiversityhotspots;EndemicandendangeredspeciesofIndia;IUCN Red list criteria and categories Valueofbiodiversity:Ecological,economic,social,ethical,aesthetic,andinformationalvaluesof 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)

	Paper Components		
Credits	Lecture (L)	Tutorial (T)	Practical (P)
2	1		1

Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks
1	Internal Assessment - Assignment - ClassTest - Attendance		10
		4	
		4	
		2	
2.	Continuous Assessment (Tutorial) - Activity 1 - Activity 2 - Attendance		
3.	Practical - Continuous Assessment - End Term Written/Practical Exam - Viva		40
		40	
4.	EndSemesterExamination		30