



Indraprastha College for Women University of Delhi

Course Name:	BAP, BCom Group-A
Paper Title:	Environmental Science: Theory into practices (AEC-II)
Unique Paper Code:	2181002001
Semester:	III
Faculty(s):	Dr. Nikki
Year:	2026

Work Plan			
Unit No.	Learning Objective	Lecture No.	Topics to be Covered
I	Global Environmental Issues and Policies	1	Climate change, Global warming, Ozone layer depletion, causes and impacts
		2	Acid rain ; causes and impacts
		3	Sustainable Development Goals and India's National Action Plan on Climate Change
		4	Earth Summit, UNFCCC, Montreal and Kyoto protocols, Convention on Biological Diversity (CBD),
		5	Ramsar convention, The Chemical Weapons Convention (CWC), UNEP, CITES, etc.
		6	Wildlife Protection Act, 1972; Water (Prevention and Control of Pollution) Act, 1974; Forest (Conservation) Act 1980;
		7	Air (Prevention & Control of Pollution) Act, 1981; Environment Protection Act, 1986; Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006
	Biodiversity and Conservation	8	Biodiversity; Levels of biological diversity: genetic, species and ecosystem diversity, India as

II			a mega-biodiversity nation; Biogeographic zones of India;
		9	Biodiversity hotspots; Endemic and endangered species of India; IUCN Red list criteria and categories
		10	Ecological, economic, social, ethical, aesthetic, and informational values of biodiversity with examples; sacred groves and their importance with examples
		11	Habitat loss, degradation, and fragmentation; Poaching of wildlife
		12	Man-wildlife conflicts; Biological invasion with emphasis on Indian biodiversity; Current mass extinction crisis
		13	Biodiversity conservation strategies: in-situ and ex-situ methods of conservation; National Parks, Wildlife Sanctuaries, and Biosphere reserves; Keystone, Flagship, Umbrella, and Indicator species;
		14	Species reintroduction and translocation, Case studies: Contemporary Indian wildlife and biodiversity issues, movements, and projects such as Project Tiger, Project Elephant,
		15	Vulture breeding program, Project Great Indian Bustard, Crocodile conservation project, Silent Valley movement, Save Western Ghats movement
III	Human Communities and the Environment	16	Human population growth: Impacts on environment, human health, and welfare; Carbon foot-print
		17	Resettlement and rehabilitation of developmental project affected persons and communities; relevant case studies
		18	Environmental movements: Chipko movement, Appiko movement, Silent valley 8 Ability Enhancement Compulsory Course 9 movement, Bishnois of Rajasthan, Narmada Bachao Andolan, etc

		19	Environmental justice: National Green Tribunal and its importance, Environmental philosophy: Environmental ethics;
		20	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,
		21	National Environment Awareness Campaign (NEAC), National Green Corps (NGC) "Eco-club" programme, etc), Previous year question discussion

References

Unit 1

1. Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 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). Environment, 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). Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. Chapter 23 (Pages: 555-598); Chapter 30 (Pages: 801-807).

Unit 2

1. Primack, R. B. (2014). Essentials of Conservation Biology, Oxford University Press, USA. Page. 1-536.
2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). Environment, 9th Edition. Wiley Publishing, USA. Chapter 5 (Pages: 97-99); Chapter 16 (Pages: 299-318)
3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. Chapters 24 (Pages: 599-690); Chapter 26 (Pages: 664-714).

Unit 3

1. Divan, S. and Rosencranz, A. (2002). Environmental Law and Policy in India: Cases, Material & Statutes, 2nd Edition. Oxford University Press, India. Chapter 10 (Pages: 416-473).
2. Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). Environment, 9th Edition. Wiley Publishing, USA. Chapter 2 (Pages: 33-36); Chapter 8 (Pages: 148-162).
3. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. Chapter 1 (Pages: 23-26); Chapter 31 (Pages: 826-842).

	Paper Components		
Credits	Lecture (L)	Tutorial (T)	Practical (P)
2	1	0	1
Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks
1	Internal Assessment • Assignment/Quiz/Project/ Presentation • ClassTest • Attendance		10
		4	
		4	
		2	
2.	Continuous Assessment (Tutorial) • Activity 1 • Activity 2 • Attendance		NA
		NA	
		NA	
		NA	
3.	Practical • Continuous Assessment • End Term Written/Practical Exam • Viva		40
		40	
		NA	
		NA	
4.	End Semester Examination		30