



Indraprastha College for Women University of Delhi

Work Plan for ODD SEMESTER – 2026

Course Name:	Ability Enhancement Course (AEC)
Paper Title:	Environmental Science: Theory into Practice II
Unique Paper Code:	2181002001
Semester:	III
Faculty:	Dr. Shanta Kumar
Year:	2026

Work Plan			
Unit No.	Learning Objective	Lecture No.	Topics to be Covered
V	Understand global environmental issues and policies	1	Theory: Causes of climate change, global warming, ozone-layer depletion and acid rain; impacts on human communities, biodiversity, the global economy and agriculture Practical: Depict the temperature or precipitation trend of a study area using online data
V	Understand global environmental issues and policies	2	Theory: International agreements and programmes: Earth Summit, UNFCCC, Montreal and Kyoto Protocols, CBD, Ramsar Convention, CWC, UNEP and CITES Practical: Submission and correction of the trend-analysis exercise
V	Understand global environmental issues and policies	3	Theory: Sustainable Development Goals; India's National Action Plan on Climate Change and its major missions Practical: Assess Nationally Determined Contributions of developed and developing countries
V	Understand global environmental issues and policies	4	Theory: Environmental legislation in India: Wildlife Protection Act, Water Act, Forest Conservation Act, Air Act, Environment Protection Act and Forest Rights Act Practical: Continue the comparative assessment of Nationally Determined Contributions
VI	Understand biodiversity, its threats and conservation	5	Theory: Definition and levels of biodiversity: genetic, species and ecosystem diversity Practical: Submission and correction of the NDC assessment
VI	Understand biodiversity, its threats and conservation	6	Theory: India as a mega-biodiversity nation; biogeographic zones, hotspots, endemic and endangered species, and IUCN Red List criteria and categories Practical: Identify the carbon footprint of the college, home or locality

VI	Understand biodiversity, its threats and conservation	7	Theory: Ecological, economic, social, ethical, aesthetic and informational values of biodiversity; importance of sacred groves Practical: Become acquainted with open-source biodiversity databases
VI	Understand biodiversity, its threats and conservation	8	Theory: Threats to biodiversity: habitat loss, degradation and fragmentation; poaching, human-wildlife conflict, biological invasion and the current mass-extinction crisis Practical: Submission and correction of the biodiversity-database exercise
VI	Understand biodiversity, its threats and conservation	9	Theory: In-situ and ex-situ conservation; protected areas; keystone, flagship, umbrella and indicator species; reintroduction and translocation Practical: Depict the distribution of biodiversity across latitude and altitude
VI	Understand biodiversity, its threats and conservation	10	Theory: Indian wildlife and biodiversity case studies, movements and projects, including Project Tiger, Project Elephant, vulture breeding and Silent Valley Practical: Sample plant and animal biodiversity on the college campus
VII	Understand human population and its environmental impacts	11	Theory: Human population growth and impacts on the environment, human health and welfare; carbon footprint Practical: Submission and correction of the campus biodiversity exercise
VII	Understand human population and its environmental impacts	12	Theory: Resettlement and rehabilitation of people and communities affected by development projects; relevant case studies Practical: Identify the floral diversity of Delhi and other states
VII	Understand human population and its environmental impacts	13	Theory: Environmental movements: Chipko, Appiko, Silent Valley, Bishnois of Rajasthan and Narmada Bachao Andolan Practical: Submission and correction of the floral-diversity exercise
VII	Understand human population and its environmental impacts	14	Theory: Environmental justice; National Green Tribunal and its importance Practical: Formulate a questionnaire or online survey to assess the impact of environmental education
VII	Understand human population and its environmental impacts	15	Theory: Environmental philosophy and ethics; role of religions and cultural practices in environmental conservation Practical: Analyze correlations between population growth and impacts on environment and human health
VII	Understand human population and its environmental impacts	16	Theory: Environmental communication and public awareness: CNG in Delhi, Swachh Bharat Abhiyan, NEAC and National Green Corps Eco-club programme Practical: Submission and correction of the population-environment exercise