

ADVANCED INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Lesson Plan

Discipline : BBA
 Semester : I Sem
 Subject : Environmental Sciences
 Lesson Plan Duration : 21.07.2025 to 02.12.2025

Theory			
Unit	Lecture Day	Topic (Including Assignment Test)	Actual date
1	21.07.25	Humans and the Environment The man-environment interaction: Humans as hunter-gatherers; Mastery of fire; Origin of agriculture;	
	23.07.25	Emergence of city-states; Great ancient civilizations and the environment, Indic Knowledges and environment-sustainability; Middle Ages and Renaissance; Industrial revolution and its impact on the environment;	
	25.07.25	Population growth and natural resource exploitation; Global environmental change.	
	28.07.25	Environmental Ethics and emergence of environmentalism: Anthropocentric and ecocentric positions (Major thinkers); The Club of Rome-Limits to Growth; UN Conference on Human Environment;	
	30.07.25	World Commission on Environment and Development and the concept of sustainable development; Rio Summit and subsequent international efforts.	

2	31.07.25	Natural Resources and Sustainable Development Overview of natural resources: Definition of resource; Classification of natural resources- biotic and abiotic, renewable and non-renewable.	
	4.08.25	Biotic resources: Major type of biotic resources- forests, grasslands, wetlands, wildlife and aquatic (fresh water and marine); Microbes as a resource; Status and challenges.	
	6.08.25	Water resources: Types of water resources- fresh water and marine resources; Availability and use of water resources; Environmental impact of over- exploitation, issues and challenges; Water scarcity and stress; Conflicts over water.	
	8.08.25	Mineral resources: Important minerals; Mineral exploitation; Environmental problems due to extraction and processing; Land as a resource; Soil as a resource and its conservation.	
	11.08.25	Energy resources: Sources of energy- coal, oil, natural gas, renewable and non-renewable sources of energy; Conventional energy resources- coal, oil, natural gas, nuclear energy;	
	13.08.25	Non-conventional energy sources- solar, wind, tidal, hydro, wave, ocean thermal, geothermal, biomass, hydrogen and fuel cells; Implications of energy use on the environment.	
	18.08.25	Introduction to sustainable development: Sustainable Development Goals (SDGs)- targets and indicators, challenges and strategies for SDGs.	
3	20.08.25	Environmental issues and scales: Concepts of micro-, meso-, synoptic and planetary scales; Temporal and spatial effects of local, regional and global phenomena.	

	22.08.25	Pollution: Impact of sectoral processes on Environment; Types of Pollution- air	
	25.08.25	noise, water, soil	
	29.08.25	thermal, radioactive; municipal solid waste	
	1.09.25	hazardous waste; transboundary air pollution; acid rain; smog.	
	2.09.25	Land use and Land cover change: Land use change, degradation, deforestation, desertification, urbanization.	
	4.09.25	Biodiversity loss: past and current trends, impact.	
	8.09.25	Global change: Ozone layer depletion; Climate change. Disasters – Natural and Man-made (Anthropogenic)	
4	10.09.25	Conservation of Biodiversity and Ecosystems Biodiversity and its distribution: Biodiversity as a natural resource	
	12.09.25	Levels and types; Biodiversity in India and the world; Biodiversity hotspots.	
	15.09.25	Ecosystems and ecosystem services: Major ecosystem types in India and their basic characteristics forests	
	17.09.25	wetlands, grasslands, agriculture, coastal and marine; Ecosystem services- classification and significance.	
	19.09.25	Threats to biodiversity and ecosystems: Land use and land cover change; Commercial exploitation of species	
	22.09.25	Invasive species; Fire, disasters and climate change. Major conservation policies: in-situ and ex-situ conservation	

	24.09.25	Major protected areas; Biosphere reserves; Ecologically Sensitive Areas; Coastal Regulation Zone	
	26.09.25	the role of traditional knowledge for biodiversity conservation, community-based conservation; Gender and conservation.	
	29.09.25	Overview of the following conventions and protocols: Convention on Biological Diversity (CBD); Cartagena Protocol on Biosafety; Nagoya Protocol on Access and Benefit-sharing	
	3.10.25	Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES); Ramsar Convention on Wetlands of International Importance; Ramsar sites; United Nations Convention to Combat Desertification (UNCCD).	
	6.10.25	Class test	
5	8.10.25	Case studies/ Field Work The students are expected to be engaged in some of the following or similar identified activities:	
	3.10.25	a) Field visits to identify local/regional environmental issues, make observations including data collection and prepare a brief report.	
	24.10.25	b) Discussion on one national and one international case study related to the environment and sustainable development.	
	11.11.25	c) Participation in plantation drive and nature camps.	
	18.11.25	d) Documentation of campus flora and fauna.	
	27.11.25	Revision	
	2.12.25	Class test	

