

25UCET415	ENVIRONMENTAL LAW AND POLICY	Category	L	T	P	R	Credit	Year of Introduction
		PEC	3	0	0	0	3	2025

Preamble: This course introduces the legal and policy framework for environmental protection, with emphasis on Indian environmental laws and international agreements. It enables civil engineering students to understand their legal responsibilities in sustainable planning, construction, and infrastructure development..

Prerequisite: Nil

Course Outcomes: After the completion of the course, the student will be able to:

CO	Course Outcomes	Knowledge Level
CO1	Explain the basic concepts of environmental law, constitutional provisions, and fundamental principles governing environmental protection.	K2 Understand
CO2	Describe the objectives and key provisions of Indian forest, wildlife, and biodiversity laws.	K2 Understand
CO3	Summarize the legal framework governing air, water, and coastal environmental protection and the role of regulatory authorities.	K2 Understand
CO4	Explain the regulations on hazardous substances, principles of environmental liability, and major international environmental agreements.	K2 Understand

Mapping of course outcomes with program outcomes and program specific outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	–	–	–	–	–	3	2	–	–	–	1	–	–	2
CO2	–	–	–	–	–	2	1	–	–	–	–	–	–	2
CO3	–	–	–	–	–	2	1	–	-	–	–	–	–	2
CO4	–	–	–	–	–	3	2	–	–	–	1	–	–	2
Avg	-	-	–	–	–	2.5	1.5	–	-	–	1	-	–	2

Mapping of course outcomes with Knowledge and Attitude Profile (WK)

	WK1	WK2	WK3	WK4	WK5	WK6	WK7	WK8	WK9
CO1	*				*		*	*	*
CO2	*				*		*		*
CO3	*				*		*		*
CO4	*				*		*	*	*

Wks Mapped with the course

WK1	WK2	WK3	WK4	WK5	WK6	WK7	WK8	WK9
*				*		*	*	*

Mark Distribution:

Total Marks	CIE Marks	ESE Marks	ESE Duration
100	40	60	2.5 hrs

Continuous Internal Evaluation Pattern:

Attendance : 5 marks
Continuous Assessment Test : 20 marks
Continuous Assessment Assignment/Activity: 15 marks

SYLLABUS

Module 1 (11 hrs)

Concept of environment and sustainable development -Sources of environmental law: Constitution, statutes, rules, notifications- Environmental protection under the Indian Constitution- Role of judiciary and National Green Tribunal (NGT)- Environmental rights,duties, and responsibilities of citizens and engineers- Principles of environmental law: Precautionary principle,Polluter pays principle-Inter-generational -environmental milestones:Stockholm Conference (1972),Rio Earth Summit (1992),Johannesburg Summit (2002)

Module 2 (10 hrs)

Importance of forests and biodiversity conservation- evolution of forest and wildlife legislation in India- major Indian legislations: Indian Forest Act, 1927; Wildlife (Protection) Act, 1972; Forest (Conservation) Act, 1980; Biological Diversity Act, 2002; Forest Rights Act, 2006- protected areas and conservation strategies- role of community participation and indigenous rights in conservation-case examples related to forest and wildlife protection.

Module 3 (11 hrs)

Environmental quality standards and pollution control mechanisms,- water-related legislations: Water (Prevention and Control of Pollution) Act, 1974; Water Cess Act, 1977- air pollution control laws: Air

(Prevention and Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 – scope and applications- institutional framework for environmental governance: Central Pollution Control Board (CPCB) and State Pollution Control Boards (SPCBs)-coastal and marine environmental protection- Coastal Regulation Zone (CRZ) Notifications -legal aspects of groundwater regulation.

Module 4 (10 hrs)

Regulation of hazardous substances and industrial activities- Environment (Protection) Act, 1986 and allied rules Public Liability Insurance Act, 1991-principles of environmental liability: strict liability and absolute liability- introduction to international environmental law- major international conventions and agreements- role of international environmental law in global environmental governance.

Recommended Activity

Case Study Analysis of Environmental Laws and Regulatory Framework.

Students shall select a real environmental issue (e.g., air pollution, water contamination, coastal regulation violation, deforestation, or hazardous waste incident) and analyze it with reference to applicable environmental laws and regulatory authorities.

Text Books:

1. P. Leelakrishnan(2025), Environmental Law in India, LexisNexis ,7th edition.
2. Shyam Divan and Armin Rosencranz(2022), Environmental Law and Policy in India, Oxford University Press,2022

Reference Books:

1. Hand Book on Environmental Law(2002)- Forest Laws, WildlifeLaws and the Environment; Vols. I, II and III Upadhyay S. and Upadhyay, VLexis NexisButterworths-India, New Delhi.
2. Principles of International Environmental Law(2003),Sands P,Cambridge.

END SEMESTER EXAMINATION – MODEL QUESTION PAPER

Course Code	25UCET415
Course Name	ENVIRONMENTAL LAW AND POLICY
Max. Marks: 60	Duration: 2.5 Hours

Part A*(Answer all questions. Each question carries 3 marks)*

Qn No.	Question	Marks	CO	BL
1	Explain the concept of sustainable development and its importance in environmental management.	3	1	L2
2	Describe the role of the National Green Tribunal (NGT) in environmental governance in India.	3	1	L2
3	Explain the importance of protected areas in biodiversity conservation.	3	2	L2
4	Describe the objectives of the Biological Diversity Act, 2002.	3	2	L2
5	Explain the functions of the Central Pollution Control Board (CPCB) in pollution control.	3	3	L2
6	Describe the purpose and key provisions of the Coastal Regulation Zone (CRZ) Notifications.	3	3	L2
7	Explain the concept of absolute liability in environmental law.	3	4	L2
8	Describe the significance of international environmental conventions in global environmental governance.	3	4	L2

Part B*(Answer any one full question from each Module. Each carry 9 marks)***Module I**

Qn No.	Question	Marks	CO	BL
9. a	Explain the significance of environmental protection provisions incorporated in the Indian Constitution.	4	1	L2
9. b	Describe the various sources of environmental law in India, including statutes, rules, and notifications.	5	1	L2

OR

10. a	Explain the concept of environmental rights, duties, and responsibilities of citizens and engineers.	4	1	L2
10. b	Discuss the major outcomes and contributions of the Stockholm Conference (1972), Rio Earth Summit (1992), and Johannesburg Summit (2002) towards sustainable development.	5	1	L2

Module II				
Qn No.	Question	Marks	CO	BL
11. a	Explain the importance of forests in maintaining ecological balance and environmental sustainability.	4	2	L2
11. b	Describe the salient features of the Wildlife (Protection) Act, 1972.	5	2	L2
OR				
12. a	Discuss the role of community participation and indigenous communities in forest and wildlife conservation.	4	2	L2
12. b	Outline the objectives and key provisions of the Forest (Conservation) Act, 1980.	5	2	L2
Module III				
Qn No.	Question	Marks	CO	BL
13. a	Explain the need for environmental quality standards in pollution control and environmental management.	4	3	L2
13. b	Describe the objectives and important provisions of the Water (Prevention and Control of Pollution) Act, 1974.	5	3	L2
OR				
14. a	Discuss the institutional framework for environmental governance in India with reference to CPCB and SPCBs.	4	3	L2
14. b	Explain the scope and significance of the Air (Prevention and Control of Pollution) Act, 1981.	5	3	L2
Module IV				
Qn No.	Question	Marks	CO	BL
15. a	Explain the objectives and significance of the Public Liability Insurance Act, 1991.	4	4	L2
15. b	Describe the provisions of the Environment (Protection) Act, 1986 related to hazardous substances and industrial activities.	5	4	L2
OR				
16. a	Explain the need for international environmental law in addressing global environmental issues.	4	4	L2
16. b	Discuss the role of international environmental agreements in promoting environmental protection and sustainable development.	5	4	L2

