

B. Tech. IV Semester VII

Subject Name : Environmental laws and Policies **Subject Code:** BTCL14704

Type of course : PEC-IV

Prerequisite : Environmental Engineering (BTCL13503)

Rationale : Students are able to develop basic concepts of environmental legislation and policy making in India and around the world.

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	
3	0	0	3	60	25	15	0	0	100

CA1: Continuous Assessment (assignments/projects/open book tests/closed book tests CA2: Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems TEE: Term End Examination TEP: Term End Practical Exam (Performance and viva on practical skills learned in course) CA3: Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Content:

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Sr. No.	Content	Total Hrs	Module Weightage
1.	An introduction to the legal system; Constitution, Acts, Rules, Regulations; Indian Judiciary, Doctrine of precedents, judicial review, Writ petitions, PIL. Introduction to environmental laws in India; Constitutional provisions, Stockholm conference; Bhopal gas tragedy; Rio conference. General principles in Environmental law: Precautionary principle; Polluter pays principle; Sustainable development; Public trust doctrine. Overview of legislations and basic concepts. Stockholm Conference 1972; United Nations Conference on Environment and Development 1992; Rio de Janeiro (Rio Declaration, Agenda 21), Montreal Protocol 1987; Kyoto Protocol 1997; Copenhagen and Paris summits. 19	7	20%
2.	Role of Ministry of Environment, Forests & Climate: Role of central and state pollution control boards. National Green Tribunal: Ganga Tanneries Case: M.C. Mehta vs. Union of India 1988. Functions of water and air pollution control boards, Difficulties encountered in enforcing legislation, Environmental pollution monitoring. Water (prevention and control of pollution) act 1974 as amended upto 1988, Water (Prevention and control of pollution) rules 1975, Water (Prevention and control of pollution) cess rules, 1978. Air (Prevention and control of pollution) act, 1981 as amended by amendment act, 1987, Air (Prevention and control of Pollution) rules, 1982.	15	30%
3.	Environment (Protection) act, 1986, Environment (Protection) rules, 1986, Public liability insurance act, 1991. Salient features of Solid Waste Management Rules, 2016, Bio-medical Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management (Amendment) Rules, 2018	10	20%
4.	Environmental Audit: Scope & Requisites: 10h Environmental Audit: Definition, Objectives; Scope, Coverage, GOI Notification on Environmental Audit, Benefits to Industry. Reporting Environmental Audit Findings, Importance of Environmental Audit Report to industry, public and the governments.	8	15%
5.	CDM: Methodology and procedures for CDM, Eligibility Criteria , UNFCC , Role of UNFCC and Government of India	5	15%

Suggested Specification table with Marks (Theory):

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Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
15	15	20	20	15	15

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Books:

Sr. No	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Environmental law and policy in India : cases, materials, and statutes	Shyam Divan, Armin Rosencranz	New Delhi ; New York : Oxford University Press, 2001	2001	2 nd
2	Environmental Law and Policy	Venkat, A	Tata McGraw- Hill Publication,	2011	1 st
3	Environment & Pollution Law Manual	Mohanty, S.K.	Universal Law Pub	2002	3 rd
4	Environmental Legislation In India	K.R. Gupta	Atlantic Publishers and Distributors Pvt Ltd	2006	1 st
5	Environmental Law	Sengar, Dharmendra S.	PHI Learning	2020	1 st

Course Outcomes:

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Sr. No.	CO statement	Marks % weightage
CO-1	Discuss the provisions of constitutions of India related to environmental protection and duties of citizens. <i>(R,U cognitive level)</i>	10
CO-2	Explain the provisions of Acts related to prevention and control of water, air and land pollution and the role of pollution control boards in monitoring and control of pollution. <i>(R,U,A cognitive level)</i>	30
CO-3	Express the skills needed for interpreting laws, policies and judicial. <i>(R,U cognitive level)</i>	20
CO-4	Determine the importance of EA as an integral part of the planning process. <i>(C,A cognitive level)</i>	10
CO-5	Propose proper mitigation measures to avoid environmental impacts. <i>(A,E,C cognitive level)</i>	30

Mapping with POs:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO-1	1	2	1	2	2	2	1	2	3	2	1	1	1	1	1
CO-2	2	1	2	3	3	1	2	2	2	1	1	1	2	2	1
CO-3	1	2	1	2	2	2	1	2	3	2	1	1	1	1	1
CO-4	2	1	2	3	3	1	2	2	2	1	1	1	2	2	1
CO-5	3	2	3	2	1	1	1	2	2	1	2	2	2	3	2
Rationale *	9	8	9	12	11	7	7	10	12	7	6	6	8	9	6

Rationale*: The Purpose of subject is to identify Potential environmental impacts from proposals, such as projects and programs and to propose means to avoid or reduce the significant impacts.

List of Open learning website: <https://nptel.ac.in/courses/129/106/129106002/>

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SARVAJANIK UNIVERSITY
Sarvajnik College of Engineering and Technology
Bachelor of Technology
Civil Engineering



<https://nptel.ac.in/courses/120/108/120108004/>

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