



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Master of Engineering

Level: PG

Branch: Civil Engineering

Course / Subject Code: ME01065071

Course / Subject Name : Environmental Law And Audit

w. e. f. Academic Year:	2024-2025
Semester:	1 st Semester
Category of the Course:	PEC

Prerequisite:	Basics of Environmental studies
Rationale:	Knowledge of existing regulations of the country regarding environmental protection is necessary for practicing environmental engineers. Environmental law is the collection of laws, regulations, agreements that governs how humans interact with their environment.

Course Outcome:

After Completion of the Course, Student will able to:

No	Course Outcomes	RBT Level
01	Apply constitutional provisions with respect to environmental protection	R,U, A
02	Implement the provisions of various environmental acts and Rules	U,A,N
03	Interpret and relate application of procedure to carry out the Environmental Audit for various industries	A,N, E

*Revised Bloom's Taxonomy (RBT)

Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Tutorial / Practical		
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
3	0	2	4	70	30	20	30	150

Course Content:

Unit No.	Content	No. of Hours	% of Weightage
A	ENVIRONMENTAL LAWS		
1.	Introduction: Highlights of legal system and basic concepts; History of Environmental Law; Overview of Constitution of India & its perspective to environment; General principles in Environmental law; Environmental concerns in IPC, Cr. PC, Torts; Major international treaties, conventions and conferences related to environmental legislation.	4	10



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2.	Water Act, 1974: Familiarization with important sections and clauses of the Act; Comments on certain provisions, lacunae; Amendments to the Water Act 1974; Water rules.	6	15
3.	Air Act, 1981: Familiarization with important sections and clauses of the Act; Amendments to Air Act 1981; Air rules.	4	10
4.	Environmental Protection Act, 1986: Familiarization with important sections and clauses of the Act; Amendments to EPA, 1986.	4	10
5.	Rules & Notifications under EPA 1986 and its amendments if any: - Biomedical Waste Management Rules, 2016; -Solid Waste Management Rules, 2016; -Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016; -Plastic Waste Management Rules, 2016; -E-waste (Management) Rules, 2016; -Construction and Demolition Waste Management Rules, 2016; - Coastal Regulation Zone Notification, 2011; -Noise Pollution (Regulation and Control) Rules, 2000; -The Batteries (Management and Handling) Rules, 2001.	8	20
6.	Public Liability Insurance Act, 1991; The National Green Tribunal Act, 2010.	3	5
7.	Case Studies: Study of important features of notable environmental court cases.	3	5
B.	ENVIRONMENTAL AUDIT		
1.	Philosophy of Environmental Audit, Definitions, Benefits, Objectives	2	5
2.	Audit Procedures: Pre-Audit Activities, Activities at site and Post audit activities,	4	10
3.	Material Mass Balance and Water balance	3	5
4.	Environmental Audit scheme as implemented by GPCB under the instructions of Hon. Gujarat High Court; Case studies. Reporting Environmental Audit Findings - Importance of Environmental Audit Report to industry, public and the governments.	4	5
Total		45	100

Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks (in %)					
R Level	U Level	A Level	N Level	E Level	C Level
20	20	20	20	20	

Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

References/Suggested Learning Resources:



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(a) Books:

1. Amendments and notifications published under above Acts
2. Commentary on Environmental Legislation: By Lal
3. Constitution of India
4. Environmental Auditing – CPCB Publication
5. Environmental Law and policy in India, Armin Rozencaranz, Shyam Divan Marhta L. Noble, Tripathi publication
6. Environmental Legislation in India by K.R. Gupta
7. Environmental Legislation: V Krishnamurti
8. The Air (Prevention and Control of Pollution) Act, 1981
9. The Environmental (Protection) Act, 1986
10. The Water (Prevention and Control of Pollution) Act, 1974

(b) Open source software and website:

1. www.gpcb.gujarat.gov.in
2. www.cpcb.nic.in
3. www.moef.nic.in

Suggested Course Practical List: If any

1. Questions related to important sections and clauses of Water Act, 1974; Air Act, 1981; Environmental Protection Act, 1986; Rules and Notification under EPA1986; PLI Act, 1991; NGT Act, 2010; Environmental Audit, Case studies related to Environmental Legislation & Audit.
2. Case study of legislative dispute
3. Case study of environment audit

List of Laboratory/Learning Resources Required:

Suggested Project List:

Cases study of environment Impact Assessment

Suggested Activities for Students: If any

Environment Audit exercise
