

GUJARAT TECHNOLOGICAL UNIVERSITY

BRANCH NAME: Environmental Science & Technology
SUBJECT NAME: Legislation in Environmental Protection
SUBJECT CODE: 2173507
B.E. Semester: VII

Type of course: Environmental Science & Technology

Prerequisite: Information of Environment, Environmental Impact, waste management and handling etc, along with some basic knowledge of Environmental protection.

Rationale: This subject is intended to make students aware about the existing Environmental Legislations in India, and how these laws can be applied for preventing and controlling the pollution in case of violation of any Environmental Laws.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
			ESE (E)	PA (M)		PA (V)		PA (I)		
				PA	ALA	ESE	OEP			
3	0	0	3	70	20	10	0	0	0	100

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment; OEP-Open Ended problem; AL-Active learning;

Learning Objectives: The learning objective of this subject is:

1. To create proper understanding about Constitutional provision for Environmental Protection
2. To provide the information about various Environmental Laws and their evolution in India.
3. To make students aware about the major Acts and Rules for preventing and controlling the pollution.
4. To provide the information about Notifications under Environmental Protection Act.
5. To provide the knowledge about Regulation and Control rules and also about management and handling rules.

Content:

Sr. No.	Topic	Teaching Hours	Module Weightage (%)
1.	Constitutional provision for Environmental Protection: Evolution of different environmental legislations in India. Global and Indian scenario. Various agencies connected with pollution control inclusive of their structure. Specific Provision for environmental	10	30

	<p>protection in constitution of India, Provision in the Directive Principles of state policy. Introduction of polluters pays principle</p> <p>Water (Prevention & Control of Pollution) Act; 1974: Familiarization with important sections and Clauses of Act.</p> <p>Water Cess Act; 1977: Familiarization with important sections and Clauses of Act.</p>		
2.	<p>Air (Prevention & Control of Pollution) Act; 1981: Familiarization with important sections and Clauses of Act.</p> <p>Environmental Protection Act; 1986: Familiarization with important sections and Clauses of Act.</p>	08	20
3.	<p>Notifications under EPA, 1986:</p> <ul style="list-style-type: none"> • The Recycled plastics Manufacturing & Usage Rules; 1999 & its amendments. • The Noise Pollution (Regulation & Control) Rules, 2000 & its amendments. • The Public Liability & Insurance Act; 1991 & amendments. • Public Interest Litigation Act; 1991 • Costal Regulation Zone & Amendments <p>National Green Tribunal Act; 2010: Familiarization with important sections and clauses of Act.</p>	10	30
4.	<p>Regulation and Control rules:</p> <ul style="list-style-type: none"> • Regulation and Control rules for Noise Pollution • Regulation and Control rules for Ozone depleting substances <p>Management and Handling rules:</p> <ul style="list-style-type: none"> • Management and Handling rules for bio medical waste • Management and Handling rules for plastic waste • Management and Handling and transboundary movement rules for Hazardous waste 	08	20

Suggested Specification table with Marks (Theory):

Unit No	Unit Title	Distribution of Theory Marks					
		R Level	U Level	A Level	N level	E level	Total
1	Constitutional provision for Environmental Protection Water (Prevention & Control of Pollution) Act; Water Cess Act; 1977	8	6	6	5	5	30
2	Air (Prevention & Control of Pollution) Act; 1981 Environmental Protection Act; 1986:	6	4	4	3	3	20
3	Notifications under EPA, 1986: National Green Tribunal Act; 2010	8	6	6	5	5	30
4	Regulation and Control rules Management and handling rules.	6	4	4	3	3	20

Legends: R: Remembrance; U = Understanding; A = Application; N= Analyze; E= Evaluate 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:

- Handbook of Environmental Laws, Guidelines, Compliance & Standards, Vol 1 & 2, Environ-Media, Karad, India, 1997.
- Environment and pollution Laws containing Acts & Rules, S.K Mohanty.
- Water (Prevention & Control of Pollution) Act; 1974 & its amendments 1978; 1988.
- Air (Prevention & Control of Pollution) Act; 1981 & its amendments.
- Environmental Protection Act; 1986 & its amendments.
- Environmental Law & Policy in India by Armin Rozencaranz; Shyam Divan & Marhta L Noble; Tripathi publications, 1999

Course Outcome: After learning this course the students would have:

1. Proper understanding about Constitutional provision for Environmental Protection

2. Information about various Environmental Laws and their evolution in India.
3. Knowledge of major Acts and Rules for preventing and controlling the pollution.
4. Information about Notifications under Environmental Protection Act.
5. Knowledge about Regulation and Control rules and also about management and handling rules.

List of tutorials:

- 1) Assignments related to provisions under, Water (Prevention & Control of Pollution) Act; 1974
- 2) Assignments related to provisions under, Air (Prevention & Control of Pollution) Act; 1981.
- 3) Assignments related to provisions under, Environmental Protection Act; 1986.
- 4) Assignments related to provisions under, Water Cess Act; 1977.
- 5) Assignments related to provisions under The Recycled Plastics Manufacturing and Usage Rules.
- 6) Assignments related to provisions under The Public Liability Insurance Act.
- 7) Assignments related to provisions under Coastal Regulation Zone.
- 8) Assignments related to provisions under Public Interest Litigation Act.
- 9) Assignments related to provisions under National Green Tribunal Act.
- 10) Assignments related to Regulation and Control rules
- 11) Assignments related to Management and handling rules.

ACTIVE LEARNING ASSIGNMENTS: Preparation of power-point slides, which include videos, animations, pictures, graphics for better understanding theory and practical work – The faculty will allocate chapters/ parts of chapters to groups of students so that the entire syllabus to be covered. The power-point slides should be put up on the web-site of the College/ Institute, along with the names of the students of the group, the name of the faculty, Department and College on the first slide. The best three works should submit to GTU.