

# GUJARAT TECHNOLOGICAL UNIVERSITY

## B.E. SEMESTER : VIII

### ENVIRONMENT ENGINEERING

Subject Name: **ENVIRONMENTAL LEGISLATION AND AUDIT**

Sr. No.	Course Contents	Total Hrs
[A]	<b>[A] Environmental Legislation:</b>	
1.	Historical perspective; constitutional perspective; guarantees to Environmental protection Common law;	2
2.	Water (Prevention and Control of Pollution) Act; 1974: Familiarization with important sections and clauses of Act; Lacunae.	4
3.	Air (Prevention and Control of Pollution) Act 1981 Familiarization with important section and clauses of Act; Lacunae.	4
4.	Environmental Protection Act; 1986 Improvement over previous acts; limitations; Important Sections;	4
5.	Water Cess Act; 1977 Familiarization with important sections and clauses of the act with their lacuna.	2
6.	Notifications under EPA ; 1986: <ul style="list-style-type: none"> <li>• The Hazardous Waste (Management and Handling) Rules; 1989; 2002 and amendments</li> <li>• The Biomedical Waste (Management and Handling) Rules; 1998 and amendments.</li> <li>• The Recycled Plastics Manufacturing and Usage Rules; 1999 &amp; its amendments.</li> <li>• The Noise Pollution (Regulation and Control) Rules 2000 and amendments.</li> <li>• The Public Liability Insurance Act; 1991 and amendments.</li> <li>• Coastal Regulation Zone and amendments.</li> </ul>	10
7.	Introduction to ISO 14000.	6
[B]	<b>Audit:</b>	
1.	Philosophy of Environmental audit; definitions; benefits; objectives; Audit procedures: Pre audit activities; activities of site and post audit activities; case studies.	6
2.	Environmental Audit Scheme as implemented by GPCB under the instructions of Hon. Gujarat High Court.	4
3.	Case Studies	6

#### Reference Books:

1. Constitution of India
2. Water (Prevention and Control of Pollution) Act 1974 and its amendments 1978; 1988.
3. Air (Prevention and Control of Pollution) Act 1981; 1987 and its amendments
4. Water Cess Act; 1977; 1992
5. Environmental Protection Act; 1986 & its amendments
6. Environmental Law and Policy in India by Armin Rozencaranz; Shyam Divan and Marhta L. Noble; Tripathi Publications
7. ISO 14000.
8. Environmental Auditing – CPCB Publication

**Term Work:**

1. Assignments related to provisions under Water (Prevention and Control of Pollution) Act 1974
2. Assignments related to provisions under Air (Prevention and Control of Pollution) Act
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 Hazardous Waste (Management and Handling) Rules
6. Assignments related to provisions under The Biomedical Waste(Management and Handling) Rules
7. Assignments related to provisions under The Recycled Plastics Manufacturing and Usage Rules
8. Assignments related to provisions under The Public Liability Insurance Act;
9. Assignments related to provisions under Coastal Regulation Zone
10. Questions based on ISO 14000.
11. Questions based on Environmental Audit.
12. Case studies on Environmental Audit.