

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: II

Environmental Management

Subject Name **Inter disciplinary : Environmental Audit and Legislation**

Environmental Audit

1. Philosophy of Environmental Audit, Definitions, Benefits, Objectives
2. Audit Procedures : Pre-Audit Activities, Activities at site and Post audit activities,
3. Material Mass Balance and Water balance
4. Solid waste estimation,
5. Cost of Environmental audit & effectiveness of Environmental audit.

Legislation

1. Introduction :
Overview of constitution of India; Fundamentals duties and rights; State center and concurrent lists of subjects. Historical legislative background of environmental concerns in different Acts, including IPC, Administrative mechanisms for environmental protection at state and central level.
2. Water Act, 1974 : Familiarization with important sections and clauses of the Act; Comments on certain provisions, lacunae; Amendments to the Water Act 74; Water rules.
3. Water Cess Act, 1977 : Familiarization with important sections and clauses of the Act; Amendments to Cess Act 1977.
4. Air Act, 1981 : Familiarization with important sections and clauses of the Act; Amendments to Air Act 1981; Air rules.
5. Environmental Protection Act, 1986: Familiarization with important sections and clauses of the Act; Amendments if any; Environmental rules; Hazardous waste rules;
6. Different Notifications under EPA 1986 namely PLI Act 1991, Biomedical Waste Rules 1998 and others..

Term work:

Term work will comprise of assignments on the questions related to important sections and clauses of Water Act, 1974, Air act, 1981, Environmental Protection Act , 1986, Water Cess Act, 1977, Notification under EPA 1986, Environmental Audit, case studies related to environment,

Reference Books:

1. Constitution of India
2. The Water (Prevention and Control of Pollution) Act, 1974
3. The Air (Prevention and Control of Pollution) Act, 1981
4. The Motor Vehicle Act, (Amended), 1989
5. The Water Cess Act, 1977

6. The Environmental Protection Act, 1986
7. Amendments and notifications published under above Acts
8. Environmental Law and policy in India, Armin Rozencaranz, Shyam Divan Marhta L. Noble, Tripathi publication
9. Commentary on Environmental Legislation: By Lal
10. Environmental Legislation: V Krishnamurti