

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. Civil (Town and Country Planning) (Branch Code - 048)

Year – I (Semester – II) (W.E.F. January 2013)

INTERDISCIPLINARY – II

1) SUSTAINABLE ENVIRONMENTAL PLANNING (CODE: 1724809)

SR. NO.	COURSE CONTENT
1	<u>ECOLOGY, ENVIRONMENT AND POLLUTION:</u> Basic concepts and components of ecology and ecosystem; Air water, noise, land pollution – causes, effects and control.
2	<u>SUSTAINABLE DEVELOPMENT AND PLANNING TECHNIQUES:</u> Definition, sustainability check lists multi-dimension concept, principles. Creation of green spaces, concepts of Green building, concept of green residential clusters, provision of green belt, Eco- friendly industrial location and planning, development of existing water bodies, water conservation techniques, Air-pollution abatement measures due to automobiles
3	<u>ENVIRONMENTAL MANAGEMENT AND LEGISLATION:</u> Multi Disciplinary Environmental Strategies Decision Making – Concepts of Environmental Audit, Life Cycle Analysis (LCA) ISO 14001, Clean Development Mechanism (CDM), Carbon Credits Environmental standards in India, Role and functions of MoEF, CPCB, DoEF, GPCB, Environmental acts. EIA rules.

TERM WORK shall be based on the above topics. Students shall represent a case study individually and submit the same. In addition, they shall be submitting assignments for evaluation. A visit to a government organization is essential and students are expected to prepare a report on visit in a group.

REFERENCE BOOKS:

1. Dr. Suresh K. Dhameja (2007) “Environmental Engineering and Management”, S. K. Kataria & Sons, New Delhi.
2. G. N. Pandey (2005), “Environmental Management”, Vikas Publishing House Pvt. Ltd., New Delhi.
3. Rehana Tariq (2008), “Sustainable Urbanization and urban Development”, New Academic Publishers, New Delhi.
4. Rachel Cooper (2009), “Designing Sustainable Cities”, Wiley- Blackwell Publisher, New delhi.