Course Title: Environmental Studies, Core, B.Tech. Winter sem

Credit Structure: (L-T-P-Cr) (2-0-0-2)

Course Code: SC209

Prerequisites: Nil

Course objective: The course is designed by UGC under the direction of Supreme Court. The main objectives of the course is

(1) To sensitize the students on various issues and problems of environment affecting our society.

(2) To allow the students to do hands on exercise on few specific problems related to environment.

(3) To enable the student to conceive ICT based solution of the environmental problems.

Course Outcome:

With the broad understanding of the environment and underlying principles, the students should be able to relate the changes and challenges of environment related issues.

Course content:

Unit 1: Introduction to environmental studies - Definition, scope and importance

Unit 2: Natural Resources include forest, water, mineral, energy and land resources.

Unit 3: Ecosystems e.g. forest, grassland, desert and aquatic ecosystem.

Unit 4: Biodiversity and its conservation – Bio-geographical classification of India, Biodiversity at global, National and local levels, Threats and Conservation of biodiversity.

Unit 5: Environmental Pollution - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards.

Unit 6: Social Issues and the Environment - Sustainable development, Water conservation, rain water harvesting, watershed
management, Climate change, global warming, acid rain, ozone layer depletion, nuclear hazards.

Course Evaluation:

1. Assignment, 50% weightage
2. Quiz 20% weightage
3. Final sem 30% weightage

Textbook:

1. Textbook for environmental Studies by Erach Bharucha