

**J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD**

**SUBJECT NAME: ENVIRONMENTAL SCIENCE**

**CODE: MC-03**

**NO. OF CREDITS: 0**

			SESSIONAL : 25
L	T	P	FINAL EXAM: 75
2	0	0	TOTAL : 100

**COURSE OBJECTIVES**

1. The course intends to introduce the students to the vast field of Legislation and Policies both at the national and international level relating to environment.
2. The students will be given an insight into major acts and rules applicable for pollution control as well as natural resource conservation.
3. At the end of the course it is expected that the students will be equipped with the skills needed for interpreting laws, policies and judicial decisions about the environment.

**UNIT I:**

Environmental Pollution: Issues, challenges and response at national and international level (climate change, biodiversity, ozone layer depletion), Stockholm Convention, Earth Summit, Vienna convention & Montreal Protocol, UNFCCC & Kyoto Protocol, Swachh Bharat Abhiyan, Ganga Action Plan, Yamuna Action Plan.

**UNIT II:**

Constitutional Provisions relating to Environmental protection in India [Article 48A and 51-A (g)], Introduction, salient features, latest amendments and drawbacks of the following acts:

Water (Prevention and Control of Pollution) Act, 1974; Water Cess Act, 1977; Air (Prevention and Control of Pollution) Act, 1981 and amendments; Environmental (Protection) Act, 1986; Motor Vehicle Act, 1988 (environmental aspects); The Biological Diversity Act, 2002, Public Liability Insurance Act, 1991.

**UNIT III:**

Solid Waste Management Rules, 2016; Plastic Waste Management Rules, 2016; E-Waste Management Rules, 2016; Bio-Medical Waste Management Rules, 2016; Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; Construction and Demolition Waste Management Rules, 2016, Notification of Ash utilization 1999, 2003, 2009, 2015 and amendments if any.

#### **UNIT IV:**

National Green Tribunal Act, 2010; Principles, scope and elements for successful environmental management, ISO 14000 Series.

Ecomark Scheme, Indian Emission Standards.

#### **COURSE OUTCOMES:**

After completing this course, the students will be able to:

1. Understand environmental legislation and policies of national and international regime.
2. Know regulations applicable to industries and other organizations with significant environmental aspects.
3. Get knowledge of the legal system operating in India and will be in a position to prepare compliance reports for getting environmental clearance.
4. Prepare the environmental management system for an organization.

#### **REFERENCES**

1. Environmental Planning, Policies & Programmes in India – K.D. Saxena.
2. Environmental Administration and Law- Paras Diwan
3. Suresh Jain and Vimla Jain, Environmental Laws in India, The Lawyers home, Indore.
4. Don Sayre, Inside ISO 14000, Deep & Deep Publications (1997)
5. S.Dalela Saurath, ISO 9000; A Manual for Total Quality Management, 1st ed. (1992).