

## Bhagwan Mahavir University, Surat

## FY B.Com. (Bachelor of Commerce)

## 1060204201 ENVIRONMENTAL STUDIES

First Year B.Com

Semester – II

<b>Subject Name</b>	ENVIRONMENTAL STUDIES
<b>Subject Code</b>	1060204201
<b>Objectives</b>	The objective of course is to familiarize student with the basic concepts, theories and issues related to demography and environment.
<b>Subject Outcome</b>	The student will be able to learn and understand various topics of environmental science.
<b>Course Duration</b>	The course duration is of 40 sessions of 60 minutes each.
<b>Teaching Methods</b>	The course will use the following pedagogical tools: (a) Lectures and Discussions (b) Assignment/Activities/Quiz/Class participation
<b>Evaluation</b>	<b>Continuous Evaluation</b>
	Internal Assessment-(30 Marks) Internal Exam/Assignments/Quiz/Class participation/Attendance, etc.
	External Assessment- (70 Marks)

## Course Contents

<b>Unit 1</b>	<b>INTRODUCTION TO ENVIRONMENT</b>	<b>10%</b>
	<ul style="list-style-type: none"> <li>▪ Meaning and definition of Environment, Need of environmental studies for Business.</li> </ul>	
<b>Unit 2</b>	<b>NATURAL RESOURCES</b>	<b>45%</b>
	<ul style="list-style-type: none"> <li>▪ Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Land resources: Land as a resource, land degradation, man induced</li> </ul>	

	landslides, soil erosion and desertification.	
<b>Unit 3</b>	<b>ECOSYSTEMS</b>	<b>15%</b>
	<ul style="list-style-type: none"> <li>▪ Concept of an ecosystem</li> <li>▪ Structure and function of an ecosystem</li> <li>▪ Producers, consumers and decomposers · Energy flow in the ecosystem</li> <li>▪ Introduction, types, characteristic features, structure and function of the following ecosystem:               <ol style="list-style-type: none"> <li>a. Forest ecosystem</li> <li>b. Grassland ecosystem</li> <li>c. Desert ecosystem</li> <li>d. Aquatic ecosystems (ponds, streams, lakes, rivers, ocean estuaries)</li> </ol> </li> </ul>	
<b>Unit 4</b>	<b>BIODIVERSITY AND ITS CONSERVATION&amp;ENVIRONMENTAL POLLUTION</b>	<b>15%</b>
	<ul style="list-style-type: none"> <li>▪ Introduction – Definition: genetic, species and ecosystem diversity</li> <li>▪ Bio geographical classification of India</li> <li>▪ Value of biodiversity: consumptive use, productive use, social, ethical aesthetic and option values</li> <li>▪ Biodiversity at global, national and local levels</li> <li>▪ Definition · Causes, effects and Meaning of control measures: Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear pollution</li> </ul>	
<b>Unit 5</b>	<b>SOCIAL ISSUES AND THE ENVIRONMENT&amp;HUMAN POPULATION AND THE ENVIRONMENT</b>	<b>15%</b>
	<ul style="list-style-type: none"> <li>▪ <b>SOCIAL ISSUES</b> From unsustainable to sustainable development, Environmental ethics: Issues and possible solutions, Wasteland reclamation · Consumerism and waste products</li> <li>▪ <b>HUMAN POPULATION</b> Population growth, variation among nations · Population explosion – Family Welfare Programmes, Human Rights · Value Education · HIV / AIDS · Women and Child Welfare</li> </ul>	

**Reference Books:**

1. Textbook of Environmental Studies for Undergraduate Courses by ErachBharucha (Universities Press)
2. Indian Economy (2006), RuddraDutt& K P M Sundaram, S. Chand.
3. Indian Economy (2009), Mishra and Puri, Himalaya Publishing House.
4. Indian Economy (2003), I C Dhingra, Sultan Chand
5. Indian Economy (2003), Aggarwal, A.N. Vishwa Prakashan.