

**SARDAR PATEL UNIVERSITY**

<b>M.COM. (INTEGRATED) (BUSINESS STUDIES) SEMESTER-I</b>		
<b>COURSE CODE</b>	<b>TITLE OF THE PAPER</b>	<b>TOTAL CREDIT</b>
IB01SCOM51	Environmental Sciences	2

<b>Course Objectives</b>	The Course Intends To Introduce The Students To The Multidisciplinary Nature Of Environmental Studies, Biodiversity, Social Issues Related To Environment And Population Growth And Human Rights.
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<b>Course Description</b>		
<b>Unit</b>	<b>Description</b>	<b>Weightage</b>
<b>1.</b>	<p><b>THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES</b>  <b>Definition, Scope And Importance</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Scope</li> <li>• Importance</li> </ul> <p><b>Need For Public Awareness</b></p> <ul style="list-style-type: none"> <li>• Institutions In Environment</li> <li>• People In Environment</li> </ul> <p><b>Value Education</b></p> <ul style="list-style-type: none"> <li>• Environmental Values</li> <li>• Valuing Nature</li> <li>• Valuing Cultures</li> <li>• Social Justice</li> <li>• Human Heritage</li> <li>• Equitable Use Of Resources</li> <li>• Common Property Resources</li> <li>• Ecological Degradation</li> </ul> <p><b>Women And Child Welfare</b>  <b>Role Of Information Technology In Environment And Human Health</b></p>	<b>25%</b>
<b>2.</b>	<p><b>BIODIVERSITY AND ITS CONSERVATION</b>  <b>Introduction – Definition: Genetic, Species, Ecosystem Diversity</b></p> <ul style="list-style-type: none"> <li>• Genetic Diversity</li> <li>• Species Diversity</li> <li>• Ecosystem Diversity</li> </ul>	<b>25%</b>

	<p><b>Biogeographic Classification Of India</b></p> <p><b>Value Of Biodiversity: Consumptive, Productive Use, Social, Ethical, Aesthetic And Option Values</b></p> <ul style="list-style-type: none"> <li>• Consumptive Value</li> <li>• Productive Value</li> <li>• Social Value</li> <li>• Ethical Value</li> <li>• Aesthetic Value</li> <li>• Option Value</li> </ul> <p><b>Biodiversity At Global, National And Local Levels</b></p> <p><b>India As A Mega Diversity Nation</b></p> <p><b>Hotspots Of Biodiversity</b></p> <p><b>Threats To Biodiversity: Habitat Loss, Poaching Of Wildlife, Man-Wildlife Conflicts</b></p> <p><b>Endangered And Endemic Species Of India</b></p> <ul style="list-style-type: none"> <li>• Common Plant Species</li> <li>• Common Animal Species</li> </ul> <p><b>Conservation Of Biodiversity: In-Situ And Ex-Situ</b></p> <ul style="list-style-type: none"> <li>• In-Situ Conservation</li> <li>• Ex-Situ Conservation</li> </ul>	
3.	<p><b>SOCIAL ISSUES AND THE ENVIRONMENT</b></p> <p><b>From Unsustainable To Sustainable Development</b></p> <p><b>Urban Problems Related To Energy</b></p> <p><b>Water Conservation, Rain Water Harvesting, Watershed Management</b></p> <ul style="list-style-type: none"> <li>• Water Conservation</li> <li>• Rain Water Harvesting</li> <li>• Watershed Management</li> </ul> <p><b>Resettlement And Rehabilitation Of People; Its Problems And Concerns.</b></p> <p><b>Environmental Ethics: Issues And Possible Solutions</b></p> <ul style="list-style-type: none"> <li>• Resource Consumption Patterns And The Need For Their Equitable Utilization</li> <li>• Equity – Disparity In The Northern And Southern Countries</li> <li>• Urban – Rural Equity Issues</li> <li>• The Need For Gender Equity</li> <li>• Preserving Resources For Future Generations</li> <li>• The Rights Of Animals</li> <li>• The Ethical Basis Of Environment Education And Awareness</li> <li>• The Conservation Ethic And Traditional Value Systems Of India</li> </ul>	25%
4.	<p><b>HUMAN POPULATION AND THE ENVIRONMENT</b></p> <p><b>Population Growth, Variation Among Nations</b></p> <ul style="list-style-type: none"> <li>• Global Population Growth</li> </ul>	25%

	<p><b>Population Explosion – Family Welfare Program</b></p> <ul style="list-style-type: none"> <li>• Methods Of Sterilization</li> <li>• Urbanization</li> </ul> <p><b>Environmental And Human Health</b></p> <ul style="list-style-type: none"> <li>• Environmental Health</li> <li>• Climate And Health</li> <li>• Infectious Diseases</li> <li>• Water-Related Diseases</li> <li>• Risks Due To Chemicals In Food</li> <li>• Cancer And Environment</li> </ul> <p><b>Human Rights</b></p> <ul style="list-style-type: none"> <li>• Equity</li> <li>• Nutrition, Health And Human Rights</li> <li>• Intellectual Property Rights And Community Biodiversity Registers</li> </ul>	
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\*Units will have the same Weightage in the evaluation as suggested in the course outline.

<b>Teaching-Learning Methodology</b>	Direct Lecture, Power Point Presentations, Online lectures, Seminars, Students Presentation and Group Discussion.
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<b>Evaluation Pattern</b>		
Sr.No.	Details of the Evaluation	Weightage
1.	Internal/Written Examination	15%
2.	Internal Continuous Assessment in the form of Practical , Viva-Voce, Quizzes, Seminars, Assignments, Attendance	15%
3.	University Examination	70%

\* Students will have to score a minimum of 40 (Forty) Percent to pass the course.

<b>Course Outcomes:</b> Having Completed this Course, the Students will be able to Understand/Analyze/and Learn	
1.	What Is The Multidisciplinary Nature Of Environmental Studies? Why There Is Need For Public Awareness? What Can Be Done Women And Child Welfare? And What Is The Role Of Information Technology In Environment And Human Health?
2.	What Is Biodiversity And Its Conservation Can Be Done? What Is The Biogeographic Classification Of India? What Are The Different Types Of Value Of Biodiversity? Which Are The Major Threats To Biodiversity? Which Are The Endangered And Endemic Species Of India What Is Environmental Ethics And Its Issues And Possible Solutions?
3.	What Are The Social Issues Related To The Environment? What Are The Urban Problems Related To Energy? How Water Conservation Can Be Done? What Is Rain Water Harvesting? And What Is Watershed Management?
4.	What Is Population Growth? How It Is Different Among Various Nations? What Are The Family Welfare Program To Control The Population Explosion?

	How Is Environmental And Human Health Related? And What Are The Human Rights?
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<b>Suggested References: (include Reference Material from where a student is expected to study the said content in APA Style) Reference Websites can also be included)</b>	
<b>Sr. No.</b>	<b>References</b>
<b>1.</b>	<b>Bharucha Erach</b> “Textbook For Environmental Studies” For Undergraduate Courses of all Branches of Higher Education, Erach Bharucha For University Grants Commission Text – Erach Bharucha/ UGC, 2004.
<b>On-Line Resources available that can be used as Reference Material</b>	
<b>SITE ADDRESS:</b> <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/moocs">https://ugcmoocs.inflibnet.ac.in/index.php/courses/moocs</a>	
<ul style="list-style-type: none"> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/659">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/659</a></li> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/1109">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/1109</a></li> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/843">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_pg/843</a></li> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/285">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/285</a></li> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/142">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/142</a></li> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/172">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/172</a></li> <li>• <a href="https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/167">https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/167</a></li> </ul>	
<b>SUBJECTS</b>	
<ul style="list-style-type: none"> <li>• Environmental Chemistry (Module 6,7,8,14,15,16,17.23,24,25)</li> <li>• Environmental Economics</li> <li>• Environmental Law</li> <li>• Environmental Sociology</li> <li>• Human Rights, International Law and International Humanitarian Law</li> <li>• Resources and Environment</li> <li>• Ecology and Environmental Pollution</li> <li>• Population, Environment and Development</li> </ul>	