

बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

राजपिपला, जि॰ नर्मदा Rajpipla, Dist. Narmda Established by Tribal Development Department, Govt. of Gujarat

School of Arts B.A. (Economics) Programme

Subject Code & Name: BA04VAECO1 ENVIRONMENTAL STUDIES

Teaching and Evaluation Scheme:

Teaching Scheme				Examination Scheme Component Weightage (%)			
L	T	P	Total	TH	PWE	TH	PWE
2	-	-	2	50	00	50	00

Programme Name	B.A.		
Semester	IV		
Course Code	BA04VAECO1		
Course Title	Environmental Studies		
Course Content Type (Th./Pr.)	Theory		
Course Credit	2		
Sessions+ Lab. Per Week	2		
Total Teaching/Lab. Hours	30 Hours		
* 2 Laboratory = 1 Session			

Learning Objectives

- 1. The primary objectives of environmental studies are to foster awareness, impart knowledge, cultivate concern, and encourage action towards environmental protection and sustainable resource use
- 2. Aim to equip individuals with the knowledge, skills, and attitudes needed to understand and address environmental issues
- 3. Understanding how ecosystem, climate, and natural resources function
- 4. Applying the scientific method to investigate environmental issues

Prerequisites (if any)

Learning Outcomes

On the completion of this course, students will able to:

- 1. Demonstrate mastery of core ecological and physical science concepts and methods as they pertain to environmental problem-solving.
- 2. Demonstrate mastery of core social science concepts and methods as they pertain to environmental problem-solving.
- 3. Recognize and integrate the international, cross-cultural, and transdisciplinary nature of environmental problems in analyses and solutions.
- 4. Produce a culminating/multi-scale piece of work demonstrating the ability to synthesize concepts and methods to make a contribution to environmental solutions.
- 5. Apply proficiency in analytical methods, critical thinking, communication, and leadership skills sufficient to make a contribution in environmental and related fields.



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Detailed	B.A. (Economics) Programme Contents			
UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS		
	Introduction of Environment			
	 Components of Environment, Man-Environment relationship Impact of Technology on the environment Environmental Degradation 			
Ι	 Components of ecosystem- Producers, Consumers and Decomposers Bio-Geo- Chemical Cycles, Hydrological Cycle, Carbon Cycle Oxygen Cycle, Nitrogen Cycle and Sulfur Cycle Energy Flow in Ecosystem Food Chains: Grazing, Detritus, & Food webs Ecological Pyramids Major Ecosystems: Forest Ecosystem, Grassland Ecosystem, Desert Ecosystem, Aquatic Ecosystem, Estuarine Ecosystem. 			
П	Natural Resources and pollution Renewable Resources Solar energy, Wind energy and Biomass Non-renewable Resources Fossil fuel Minerals Pollution: Air pollution Water pollution Soil pollution Noise pollution Thermal pollution Current Environmental Global Issues: Global Warming & Green Houses Effects, Acid Rain, Depletion of Ozone Layer Nameda	15		



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Reference Books

- 1. Pathfinder's Fundamentals of Ecology and Environment.
- 2. Environmental Studies: R. Rajagopalan, Oxford University Press
- 3. Environmental Pollution: Causes, Effects & Control by K.C Agrawal
- 4. Environmental Science by Richard T Wright & Bernard J Nebel
- 5. Environmental Science by Daniel B Botkin& Edward A Keller
- 6. Environmental Engineering & Management by Suresh K Dameja

Web Resources

Required Software(s) (if any)

L:: Lecture, T:: Tutorial, P:: Practical

CCE:: Continuous and Comprehensive Evaluation

(CCE Theory includes Mid Semester Examination, Assignment, MCQ quizzes, Seminar,

Reflective notes, class participation, case analysis and presentation, slip tests (announced/

surprised), attendance etc. or any combination of these)

PWE:: Practical Work Examination

(PWE includes Laboratory practical work, project work, viva simulation exercise work etc.)

SEE:: Semester End Evaluation

