

बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

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

School of Commerce B.Com. Programme

Subject Code & Name: BC04VACC01 ENVIRONMENTAL STUDIES

Teaching and Evaluation Scheme:

Teaching Scheme				Examination Scheme Component Weightage (%)			
L	T	P	Total	TH	PWE	TH	PWE
4	0	0	4	50	0	50	0

Programme Name	B.Com
Semester	IN COLUMN
Course Code	BC04VACC01
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.

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.



बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

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

School of Commerce B.Com. Programme

Detailed Contents						
UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS				
	Introduction of Environment					
	Components of Environment,					
	Man-Environment relationship					
	Impact of Technology on the environment					
	Environmental Degradation					
	Ecology & Ecosystems					
	Components of ecosystem- Producers, Consumers and					
T	Decomposers	1.5				
Ι	➤ Bio-Geo- Chemical Cycles, Hydrological Cycle, Carbon	15				
	Cycle					
	Oxygen Cycle, Nitrogen Cycle and Sulfur Cycle					
	Energy Flow in EcosystemFood Chains: Grazing, Detritus, & Food webs					
	Ecological Pyramids					
	 Major Ecosystems: Forest Ecosystem, Grassland Ecosystem, 					
	Desert Ecosystem, Aquatic Ecosystem, Estuarine					
	Ecosystem.					
	Natural Resources and pollution					
	Renewable Resources					
	- Solar energy, Wind energy and Biomass					
	Non-renewable Resources					
	- Fossil fuel					
	- Minerals					
	> Pollution:					
	- Air pollution					
II	 Pollution: Air pollution Water pollution Soil pollution 	15				
	- Soil pollution					
	- Noise pollution					
	- Thermal pollution					
	Current Environmental Global Issues:					
	- Global Warming & Green Houses Effects,					
	 Acid Rain, Depletion of Ozone Layer, Narmada 					



बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

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

School of Commerce B.Com. Programme

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

