

बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

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

School of Science B.Sc. (Chemistry) Programme

Subject Code & Name: - BS01MDCHE3: Climate change and Sustainable

Development

Teaching and Evaluation Scheme:

Teaching Scheme	Examination Scheme			
Credits	Component Weightage			
	CCE	S	SEE	
L T P Total	TH PWE	TH	PWE	
3 - 1 4	37.5% 12.5%	37.5%	12.5%	

Programme Name	B.Sc. (Chemistry)
Semester	I
Course Code	BS01MDCHE3
Course Title	Climate change and Sustainable Development
Course Content Type (Th./Pr.)	Theory
Course Credit	3+1
Sessions+ Lab. Per Week	3+2
Total Teaching/Lab. Hours	60 Hours
* 2 Laboratory = 1 Session	

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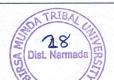
Learning Objectives

- 1. Students should be aware of pollution and different types of environmental pollution.
- 2. Impart knowledge of different type of disaster and its measures.
- 3. Students should be aware of water harvesting techniques
- 4. Students should learn changes of climate, its impact on human and other living being.

Learning Outcomes

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

- 1. Students come to know various types of pollution and its effects. Students learn to check pollution and contribute to the society.
- 2. Identify new ways of curbing pollution. They also prepare themselves to curb with disastrous incidents like earthquakes, floods etc.
- 3. Demonstrate an awareness of the difficulties involved in the detection of any unusual global warming 'signal' above the 'background noise' of natural variability in the Earth's climate and of attributing (in whole or in part) any such signal to human activity.
- 4. Students also know the technology and health. They can contribute to ease the problems related population and health of the community.





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Detailed	Detailed Contents			
UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS		
I	 Pollution: Causes and Effects of Air Pollution, Water Pollution, Soil Pollution, Marine Pollution and Noise Pollution, Role of an individual in prevention of pollution, Disaster management: Floods, Earthquakes, Cyclones and Landslides. 	15		
П	 Social Issues: From unsustainable to sustainable development, Urban problems related to energy, Water conservation, Rainwater harvesting and Watershed management, Resettlement and rehabilitation of people: It's Problems and concerns. 	15		
ш	 Climate Change and Global Warming: Climate change, Global warming, Acid rain, Ozone layer depletion, Issues involved in enforcement of environmental legislation. Environment and Human Health, Role of information technology in environment and human health, 	15		

Reference Books

- 1. Environmental Studies- Dr. Suresh K. Dhameja. Published by SK Kataria & Sons, New Delhi-110006
- 2. Introduction to Environmental Studies- Chandar K. Sharma, Vrinda Publications Pvt. Ltd. Delhi-110091
- 1. Textbook of Environmental Studies for Undergratuate Courses- Erach Bharucha

Web Resources

https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf

Unit - IV Practical(s) (if any)

30 Hours

ASSIGNMENT/FIELD EXERCISES BASED ON TOPICS COVERED IN THEORY PAPERS

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

