

Lecture Plan

Name of the college: Government College of Arts, Science & Commerce, Sankhali, Goa		
Name of Faculty: Dr. Ranjana Gupta	Subject: Environmental Sustainability: Natural Resources and Community	
Paper code: CHC-231	Program/Course: S.Y.BCom.	Division:
Academic year: 2025 - 2026	Semester: III	Total Lectures: 15
Credits: 1		
Course Objectives: • To introduce the various terms encountered in environment and sustainability. • To explain the underlying aspects of environmental pollution, waste management and municipal water treatment. • To discuss the various natural resources, environmental issues, human rights and disaster management.		
Expected Course Outcome: At the end of the course students will be able to: CO1: To describe the fundamentals of environment and sustainable development. CO2: To discuss the significance of natural resources and biodiversity. CO3: To propagate environmental education, human rights and awareness of disaster management.		
Learning Outcome: At the end of the course students will be able to: LO1: understand in detail human communities and environment, growth trends, human health and welfare. LO2: understands human rights and value education. LO3: understand disaster management. LO4: understand concepts of waste management and treatment and global issues related to environment.		

Month	Lectures From	Lectures To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise /Assignment	ICT Tools	Reference books
July	10-07-2025	31-07-2025	04	1. Human Communities and Environment: Human population: Growth and trends, human health and welfare		Smart board, Power point presentation, Google classroom	[1-6]
August	01-08-2025	31-08-2025	04	1. Human Communities and Environment: Human health and welfare, human rights and value education		Smart board, Power point presentation, Google classroom	[1-6]
September	01-09-2025	18-09-2025	03	1. Human Communities and Environment: Disaster management: floods, earthquakes, cyclones, landslides.	ISA III	Smart board, Power point presentation, Google classroom	[1-6]
September	19-09-2025	30-09-2025	01	2. Environmental issues and concern: Global environmental issues.		Smart board, Power point presentation, Google classroom	[1-6]
October	01-10-2025	18-10-2025	03	2. Environmental issues and concern: Municipal waste water treatment.		Smart board, Power point presentation, Google classroom	[1-6]

References:

- [1] Bharucha, E., Textbook of environmental studies for undergraduate courses. 3rd edition, University Grants Commission, New Delhi, 2021.
- [2] Agrawal, K. C., Environmental biology, Agro Botannica, Bikaner, 1999.
- [3] Chhatwal, R. J., Environmental sciences: A systematic approach, 1st revised edition, UDH Publishers & Distributors (P) Ltd, New Delhi, 2009.
- [4] Khopkar, S.M., Environmental Pollution Analysis, 2nd edition, New Age International Limited Publishers, New Delhi, 2020.
- [5] Salkar, A. V., Environmental Chemistry: Pollution and Remedial Perspective, Narosa Publishing House, Navi Mumbai, 2017.
- [6] De, A. K., Environmental Chemistry, 10th edition, New Age International Limited Publishers, New Delhi, 2021.

* Assessment Rubrics	
Component	Max Marks
ISA	15
Semester End Exam	60