

## Lecture Plan

<b>Name of the college: Government College of Arts, Science &amp; Commerce, Sanquelim, Goa</b>		
<b>Name of Faculty: Dr. Dipesh Sakharam Harmalkar</b>	<b>Subject: Environmental Sustainability: Natural resources and Community</b>	
<b>Paper code: CHC-231 (MC)</b>	<b>Program/Course: S.Y.BA</b>	<b>Division:</b>
<b>Academic year: 2024 - 2025</b>	<b>Semester: III</b>	<b>Total Lectures: 15</b>
<b>Credits: 3</b>		
<b>Course Objectives:</b>		
<ul style="list-style-type: none"> <li>• To introduce the various terms encountered in environment and sustainability.</li> <li>• To explain the underlying aspects of environmental pollution, waste management and municipal water treatment.</li> <li>• To discuss the various natural resources, environmental issues, human rights and disaster management.</li> </ul>		
<b>Expected Course Outcome:</b>		
At the end of the course students will be able:		
CO1: to explain the fundamentals of environment and sustainable development.		
CO2: to explain the significance of natural resources and biodiversity.		
CO3: to propagate environmental education, human rights and awareness of disaster management.		
<b>Learning Outcome:</b>		
At the end of the course students will be able:		
LO1: to explain the key principles of environmental science and the importance of maintaining ecological balance for future generations.		
LO2: to analyze the significance of natural resources and biodiversity, recognizing their critical role in supporting life on Earth.		
LO3: to advocate for environmental education, human rights, and disaster management awareness by developing strategies and initiatives.		

Month	Lectures From	Lectures To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/Assignment	ICT Tools	Reference books
June	28-06-2024	30-06-2024	00				
July	01-07-2024	31-07-2024	05	<b>1. Introduction to environment:</b> Concept and types of environments, components of environment.	ISA I: Assignment	Smart board, Power point presentation, Google classroom	[1-2]
August	01-08-2024	19-08-2024	03	<b>1. Introduction to environment:</b> significance of environment for life, Objectives of environmental education, sustainability.		Smart board, Power point presentation, Google classroom	[1-2]
August	20-08-2024	31-08-2024	01	<b>2. Ecosystems and Food Chain:</b> Definition, features,		Smart board, Power point presentation, Google classroom	[3-4]
September	01-09-2024	30-09-2024	05	<b>2. Ecosystems and Food Chain:</b> features, components, tropic levels, functioning, types of food chain and food web.	ISA III	Smart board, Power point presentation, Google classroom	[3-4]
October	01-10-2024	07-10-2024	01	<b>2. Ecosystems and Food Chain:</b> types of food chain and food web.		Smart board, Power point presentation, Google classroom	[3-4]
October	08-10-2024	22-10-2024	02	Revision		Smart board, Power point presentation, Google classroom	

#### 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, 2 nd edition, New Age International Limited Publishers, New Delhi, 2020.

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