

Lecture Plan

Name of the college: Government college of arts science and commerce Sanquelim-Goa								
Name of Faculty: Anuja Naik				Subject: Botany(diversity of microbes and non flowering plants)				
Paper code: BOT-200			Program/Course: S.Y B.Sc.		Division: A			
Academic year: 2024 - 2025			Semester: III		Total Lectures: 15			
<p>Course Objectives: 1. Familiarize students with diverse groups of microbes and non-flowering plants. 2. Provide the ability to identify and classify microbes and non-flowering plant groups. 3. Impart knowledge of the morphology, life cycle, reproduction and economic importance of various microbes and non-flowering plants</p>								
<p>Course Learning Outcome: 1. Identify and classify microbes and non-flowering plants based on their characteristic features. 2. Compare and contrast the morphological features within and between the groups for a comprehensive understanding of the basis of their classification. 3. Examine the life cycle and methods of reproduction of microbes and non-flowering plant groups. 4. Appraise the economic importance of microbes and non-flowering plants.</p>								
Month	Lectures From:	Lectures To:	No. of lectures allotted	Topic, Subtopic to be covered	Learning outcome	Exerci se /Assig nment	ICT Tools	Reference books
July	17/07/2024	20/07/2024	1	Module 2: Algae and Bryophytes Algae: General characteristics;	Students able to explain the general characteristics of the algae		Power point presentation	College botany by B.P.Pandey

	21/07/2024	27/02/2021	1	range of thallus structure;	Students define the various types of thallus structure in algae.	Ask students to observe the algae in their surrounding	
	28/07/24	31/07/24	0				
August	1/08/24	3/08/24	1	Smith's classification;	Students remember the classification given by Smith.		
	5/08/24	10/08/24	1	life cycle patterns (haplontic, diplontic, isomorphic, heteromorphic,	Students explain and draw the haplontic, diplontic, isomorphic and heteromorphic type of life cycles in algae.		
	12/08/24	17/08/24	1	life cycle patterns (haplobiontic and diplobiontic)	Students explain and draw the haplobiontic and diplobiontic type of life cycles in algae.		
	19/08/24	24/08/24	1	methods of reproduction;	Students able to identify and explain the different types of reproduction in algae.		

	26/08/24	31/08/24	1	morphological features of Nostoc, Spirogyra,	Students understand the morphology of Nostoc and spirogyra.		
	2/09/24	7/09/24	0				
	09/09/24	14/09/24	1	Sargassum and Polysiphonia; ecological and economic importance.	Students understand and explain the morphology of Sargassum and Polysiphonia and also explain the ecological economic importance of algae.		
	16/09/24	21/09/24	1	Bryophytes: General characteristics;	Students explain the general characteristics of Bryophytes	Students are instructed to do keen observation of the mosses in their surrounding	
September	23/09/24	28/09/24	1	Smith's classification;	Students remember the classification given by Smith for Bryophytes.		
October					Students understands the alteration of generation in Bryophytes.		
	1/10/24	5/10/24	1	alternation of generations;			
	7/10/24	12/10/24	1	methods of	Students able to		

				reproduction;	identify and explain the different types of reproduction in Bryophytes.		
	14/10/24	19/10/24	1	morphological features of Riccia, Anthoceros and Funaria;	Students understand and explain the morphology of Riccia, Anthoceros and Funaria;		
	21/10/24	22/10/24	1	ecological and economic importance.	Explain the ecological and economic importance of the bryophytes.		