

Lecture Plan

Name of the college: Government college of arts science and commerce Sanquelim-Goa								
Name of Faculty: Anuja Naik			Subject: Botany (plants in everyday life)					
Paper code: BOT-111			Program/Course: F.Y B.Sc.			Division: A		
Academic year: 2024 - 2025			Semester: I			Total Lectures: 30		
Course Objectives: This course is designed to give an overview of how plants are indispensable to humans. It gives a broad exposure to the various aspects of plant resource & its utilization.								
<p>Course Learning Outcome:</p> <ol style="list-style-type: none"> 1. Recall various economically and medicinally important plant species used in day-to-day life. 2. Explain the uses of economically important plants and illustrate the processing of various plant parts. 3. Analyze the utilization of various plant resources in day-to-day life. 4. Apply theoretical knowledge in utilization, and report generation of economical and medicinal plants. Create awareness on conservation of medicinal plants and use of natural plant products as alternatives to synthetic products. 								
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Learning outcome	Exerci se/ Assign ment	ICT Tools	Reference books
July	17/07/2024	20/07/2024	1	Module 1: Plant services to humans in everyday life. Introduction to science of Botany, plant resources in everyday life.	Students are able to explain the role of plants in human everyday life.	Students are supposed to write 5 names of plants after identifying	Power point presentation	Economic and medicinal botany by v. verma

						local plants in their surrounding
	22/07/2024	27/02/2021	2	<p>Role of plants: Air purifier (photosynthesis)</p> <p>plants used in rituals/festivals; Pollution removal (phytoremediation and its types),</p>	<p>Students explain the role of plants in air purifying with the help of process photosynthesis also students list the plants used in rituals and festivals and define the different types of phytoremediation .</p>	
	29/07/24	31/07/24	1	<p>pollution indicator (lichens), nutrient source (litter manure, organic manure).</p> <p>Familiarizing the students to identify plants based on morphology of plant parts.</p>	<p>Students identify the lichens as pollution indicator and also explain the nutrient source from litter manure and organic manure Students are able to identify the different morphological characters of the plant parts.</p>	
August	1/08/24	3/08/24	1			
	5/08/24	10/08/24	2	Identify common wild	Students identify	

			plants using live plants/ herbarium/photographs etc.	the common plants from their surrounding and also identify the plants based on its morphology	
			Common wild plants and their utilization: Identification and utilization of following plants: Hirda (Terminalia chebula), Behda (Terminalia bellirica), Matti (Terminalia elliptica), Kinal (Terminalia paniculata),	Students identify and state the uses of Hirda (Terminalia chebula), Behda (Terminalia bellirica), Matti (Terminalia elliptica), Kinal (Terminalia paniculata),	
			Savar (Ceiba pentandra), Kate-savar (Bombax ceiba), Bhillo mad (Caryota urens), Arjun/Pandruk (Sterculia foetida), Kumyo (Careya arborea),	Students identify and state the uses of Savar (Ceiba pentandra), Kate- savar (Bombax ceiba), Bhillo mad (Caryota urens), Arjun/Pandruk (Sterculia foetida), Kumyo (Careya arborea),	Students are supposed to write 5 names of wild plants after identifying local plants in their surrounding from their parents .
12/08/24	17/08/24	2	Asale (Microcos paniculata), Charan (Buchanania cochinchinensis), Chunna (Ziziphus rugosa) and Kanna (Carissa carandas).	Students identify and state the uses of Asale (Microcos paniculata), Charan (Buchanania cochinchinensis), Chunna (Ziziphus rugosa) and Kanna (Carissa carandas).	

			<p>Grandma's herbal pouch: Following plants to be studied with respect to botanical source, part of the plant used, and medicinal uses: Tulsi (<i>Ocimum sanctum</i>), Adulsa (<i>Adhatoda vasica</i>),</p>	<p>Students are able to recognize the plants and their medicinal uses of Tulsi (<i>Ocimum sanctum</i>), Adulsa (<i>Adhatoda vasica</i>),</p>	
19/08/24	24/08/24	2	<p>Ale (<i>Zingiber officinale</i>), Halad (<i>Curcuma longa</i>), Kate kuvar (<i>Aloe vera</i>), Kirayte (<i>Andrographis paniculata</i>), Ganjan (<i>Cymbopogon citratus</i>),</p>	<p>Students are able to recognize the plants and their medicinal uses of Ale (<i>Zingiber officinale</i>), Halad (<i>Curcuma longa</i>), Kate kuvar (<i>Aloe vera</i>), Kirayte (<i>Andrographis paniculata</i>), Ganjan (<i>Cymbopogon citratus</i>)</p>	
26/08/24	31/08/24	2	<p>Ottalao (<i>Coleus aromaticus</i>), Vaikhand (<i>Acorus calamus</i>), Punarnava (<i>Boerhaavia diffusa</i>), Paripat (<i>Oldenlandia corymbosa</i>) and Gulvel (<i>Tinospora cordifolia</i>).</p>	<p>Students are able to recognize the plants and their medicinal uses of Ottalao (<i>Coleus aromaticus</i>), Vaikhand (<i>Acorus calamus</i>), Punarnava (<i>Boerhaavia diffusa</i>), Paripat (<i>Oldenlandia corymbosa</i>) and Gulvel (<i>Tinospora cordifolia</i>).</p>	

			Module 2: Plant resources and utilization-I (including brief description of plants and/or plant parts used). a. Cereals: Rice, Wheat, Maize	Students identify describe and state the use of cereals- Rice, Wheat and Maize	
	09/09/24	14/09/24	2	b. Millets: Ragi, Jowar Bajra	Students are told to get cereal crops for studying the morphological characters
				c. Legumes: Bengal gram, Green gram, Red gram.	
				Black gram and Cowpea.	
	23/09/24	28/09/24	2	d. Cash crops: Cashew, Sugarcane.	
October				cocoa	Students identify describe and state the use of cocoa
	1/10/24	5/10/24	2	e. Plantation crops: Coconut,	Students identify describe and state the use of Plantation crops:

					Coconut	
				Banana,	Students identify describe and state the use of Banana	
	7/10/24	12/10/24	2	Mango and Jackfruit	Students identify describe and state the use of Mango and Jackfruit	
				f. Edible oils: Groundnut, Coconut,	Students identify describe and state the use of Edible oils: Groundnut and Coconut	
	14/10/24	19/10/24	2	Soyabean and Palm Oil.	Students identify describe and state the use of Soyabean and Palm Oil	
				g. Starch and tuber crops: Potato, Sweet potato and Yam	Students identify describe and state the use of Starch and tuber crops: Potato, Sweet potato and Yam	Students are told to get different
	21/10/24	22/10/24	2	h. Vegetable crops: Red amaranth, Radish, Lady's finger, Teren, 1 hour Kudduki, Ankur and Taikhil	Students identify describe and state the use of Vegetable crops: Red amaranth, Radish, Lady's finger, Teren, 1 hour Kudduki, Ankur and Taikhil	vegetable in their syllabus for studying the morphological characters.

