

Lecture Plan		
Name of the college: Government College of Arts, Science and Commerce, Sanquelim, Goa.		
Name of Faculty: Ms. Shubha Shivdas Kauthankar	Subject: Botany	
Paper code: BOT 111-Plants in Everyday Life	Program: F.Y.B.Sc.	Division: -
Academic year: 2025- 2026	Semester: II	Total Lectures: 30
Course Objectives: 1. The course deals with an overview of how plants are indispensable to humans. 2. It gives a broad exposure to the various aspects of plant resource & its utilization.		
Course Outcome: 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. 5. Create awareness on conservation of medicinal plants and use of natural plant products as alternatives to synthetic products.		
Student Learning Outcome: 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. 5. Create awareness on conservation of medicinal plants and use of natural plant products as alternatives to synthetic products.		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
December 2025	01/12/2025	01/12/2025	2	Module 3: a. Spices: Chillies, Nutmeg, Clove, Black pepper, Cardamom,	To enlist the locally available spice plants	Powerpoint presentation	1. Kochhar, SL (2012). Economic Botany in the Tropics. MacMillan India Ltd., New Delhi. 2. Purohit, SS and Vyas, SP (2008). Medicinal Plant Cultivation: A Scientific Approach. Agrobios, India. 3. Rao, RS (1985-1986). Flora of Goa, Diu, Daman & Nagar-Haveli. 2 Volumes. Botanical Survey of India.
				Star anise (Chakriful) and Dagad phul (Parmotrema perlatum).			
December 2025	08/12/2025	13/12/2025	2	b. Beverages: Tea (including processing).	To study the steps of tea and coffee processing	Powerpoint presentation	
				b. Beverages: Coffee (including processing).			
December 2025	15/12/2025	20/12/2025	2	d. Oils: Eucalyptus, Rose and Orange peel (including methods of extraction)		Powerpoint presentation	
				c. Eco-friendly use of plant parts: Banana fresh leaves, Arecanut spathe, Kumyo leaves (Carea arborea), Jackfruit leaves and Bamboo culm.			

December 2025	22/12/2025	23/12/2025	1	e. Fibres: Coir, Cotton, Jute, Banana and Sisal Including method of separation of spathe, drying and storing of fibre of banana and;	To study the extraction method of essential oils	Powerpoint presentation	4. Shailesh, R (2019). Everyday Ayurveda: The complete book of Ayurvedic home remedies. Notion Press, India.
January 2026	02/01/2026	03/01/2026	2	Collection, drying, processing and extraction of fibre from Agave leaf (demonstration/video) f Timber: Teak (Sailo), Rose wood (Shisham), Matti and Bamboo.	To study the types of timber trees found in Goa	Powerpoint presentation	
January 2026	05/01/2026	10/01/2026	2	g. Rubber: Hevea brasiliensis (including demonstration of rubber extraction process) Herbal based hair dyes: Role of ingredients used in formulation;	To study the method of preparation of herbal dyes	Powerpoint presentation	5. Sambamurty AVSS and Subramanyam NS (1989). A Textbook of Economic Botany. Wiley Eastern Ltd., New Delhi.

January 2026	12/01/2026	17/01/2026	2	Application of hair dye; evaluation and uses of hair dye (Henna, Bhringaraj, Hibiscus, Amla).	To study the plants used in herbal cosmetics	Powerpoint presentation
				Including demonstration on preparation of herbal hair dye and evaluation/testing on hair wig.		
January 2026	19/01/2026	24/01/2026	2	Herbal cosmetics and aromatics: Introduction and scope, Extraction Methods-Maceration, infusion, decoction, distillation and tinctures, Types of herbal preparations.		Powerpoint presentation
January 2026	26/01/2026	31/01/2026	2	Plants used in cleansers (Neem, Cucumber, Rose), scrubs (Marigold, Neem),	To enlist the plants used as cleansers	Powerpoint presentation
				wash (Rose –face wash, hibiscus & amla-hair wash & oil), packs and creams		
February 2026	02/02/2026	07/02/2026	2	Extraction of essential oil from lemon grass / orange peel or citrus fruit peel.	-	

February 2026	09/02/2026	14/02/2026		Preparation of Henna powder from Henna leaves and Aloe gel from Aloe vera.	To study the preparation of henna powder	Powerpoint presentation
				Preparation of plant based holi colours./		
February 2026	16/02/2026	21/02/2026	2	Paper making from plants: Paper industry and paper manufacturing;		Powerpoint presentation
				Raw materials, Processing and kinds of paper,		
February 2026	23/02/2026	28/02/2026	2	paper Industry in India.		Powerpoint presentation
				Method of making of handmade paper with demonstration/video.		
March 2026	02/03/2026	07/03/2026	2	Demonstration on preparation of herbal formulation/herbal tea.		Powerpoint presentation

March 2026	09/03/2026	14/03/2026	2	Field visit in the campus to identify the plants of economic importance and report preparation.			
March 2026	16/03/2026	21/03/2026	2	Revision			
				Revision			
March 2026	23/03/2026	31/03/2026	1	Revision	-	-	

*** Assessment Rubrics**

Component	Max Marks
ISA 1	10
ISA 2	10
ISA 3	10
Practical	-
Project	-
Semester End Exam	80