

Semester Lecture Plan (Theory)

Name of the college: Government College of Arts, Science and Commerce, Sanquelim							
Name of Faculty: Dr. Tanvi Nitin Prabhu			Subject: Botany				
Paper code: BOT 241			Program/Course: B.Sc (Botany)			Division: A	
Academic Year: 2026-27			Semester: III			Total Lectures: 15	
Course Objectives: • Impart knowledge on the use of medicinal and aromatic plants in the manufacture of herbal drugs, cosmeceuticals and nutraceuticals. • Focus on developing entrepreneurial skills by imparting hands-on training in the preparation of herbal products.							
Expected Course Outcome: On completion of the course, students will be able to • Recall the importance of medicinal and aromatic plants for preparation of herbal medicines. • Describe the methods for preparation of crude herbal extracts and drug evaluation. • Apply the acquired knowledge and skills to prepare herbal products. • Analyse the use of herbal plants for preparation of cosmeceuticals and nutraceuticals							
Student Learning Outcome: • Recall the importance of medicinal and aromatic plants for preparation of herbal medicines. • Describe the methods for preparation of crude herbal extracts and drug evaluation. • Apply the acquired knowledge and skills to prepare herbal products. • Analyse the use of herbal plants for preparation of cosmeceuticals and nutraceuticals							
Month	Lectures		No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
	From:	To:					
June 2026	24.06.2026	27.06.2026	01	Introduction: Importance of herbal medicines		PowerPoint presentation	Agarwal, SS and Paridhavi, M (2012). Herbal Drug

							Technology. 2nd edition. Universities Press (India) Private Limited, Hyderabad.
June 2026- July 2026	29.06.2026	04.07.2026	01	Brief account of methods of collection and processing (drying, garbling, packing and storage) of herbal raw materials		PowerPoint presentation	
July 2026	06.07.2026	11.07.2026	01	Brief account of decoction, maceration, infusion, hot continuous extraction, distillation and supercritical fluid extraction.		PowerPoint presentation	Kumaresan, V (2015). Herbal Biotechnology and Pharmacognosy. Saras Publication, Tamil Nadu.
July 2026	13.07.2026	18.07.2026	01	Brief account of drug evaluation using morphological, microscopic, chemical, physical and biological methods;		PowerPoint presentation	
July 2026	20.07.2026	25.07.2026	01	Brief account of drug evaluation using morphological, microscopic, chemical, physical and biological methods;		PowerPoint presentation	
July 2026 – August 2026	27.07.2026	01.08.2026	01	ISA 1 (Assignment) Drug adulteration - deliberate and indeliberate adulteration; types of adulterants.		PowerPoint presentation	Rosaline, A (2011). Pharmacognosy. MJP Publishers, Chennai.
August 2026	03.08.2026	08.08.2026	01	Hair care - oil, shampoo, conditioner and dye		PowerPoint presentation	
August 2026	10.08.2026	15.08.2026	00				
August 2026	17.08.2026	22.08.2026	01	Oral care - toothpaste and mouthwash		PowerPoint presentation	
August 2026	24.08.2026	29.08.2026	01	Herbal excipients - significance of substances of natural origin as excipients (binding agents, colourants, diluents, emulsifying agents, flavours and sweetening agents) - any two examples for each type.		PowerPoint presentation	
August 2026 - September 2026	31.08.2026	05.09.2026	01	Herbal excipients - significance of substances of natural origin as excipients (binding agents, colourants, diluents, emulsifying agents, flavours and sweetening agents) - any two examples for each type.		PowerPoint presentation	

September 2026	07.09.2026	12.09.2026	01	Aromatherapy - study of various oils used in aromatherapy with special reference to its applications in inhalation, local application and bath.		PowerPoint presentation	
September 2026	14.09.2026	19.09.2026	00	Ganesh Chaturthi break			
September 2026	21.09.2026	26.09.2026	01	Contribution of Dabur Ltd., Himalaya Wellness Company and Vicco Labs		PowerPoint presentation	
September 2026- October 2026	28.09.2026	03.10.2026	01	ISA 02		PowerPoint presentation	
October 2026	05.10.2026	10.10.2026	01	Central Institute of Medicinal and Aromatic Plants (CIMAP) and National Medicinal Plants Board (NMPB); role of Traditional Knowledge Digital Library (TKDL).		PowerPoint presentation	
October 2026	12.10.2026	14.10.2026	01	Revision		PowerPoint presentation	

Assessment Rubrics

Component	Max Marks
ISA 1 (Theory)	5
ISA 2 (Theory)	5
Practical	NA
Project	NA
Semester End Exam	20