

		Semester Lecture Plan					
Name of the college: Government College of Arts, Science& Commerce, Sanquelim-Goa							
Name of Faculty: Shweta A. Patil				Subject: Geography			
Paper code: GOS-241				Program/Course: BSc		Division:	
Academic year: 2026-2027				Semester : III		Total Lectures: 13	
Course Objectives: 1. to teach students the principles and practices of composting, the process of breaking down organic waste into nutrient rich soil amendments. Students will learn about the benefits of composting, different composting methods, the science of decomposition, and how to maintain a composting system. The course is designed to provide students with the knowledge and skills necessary to successfully compost organic waste and produce high-quality soil amendments.							
Course Learning Outcome: 1. Learn different composting methods and techniques. 2. Understand the key components of a successful composting system. 3. Develop the skills to maintain and troubleshoot a composting system. 4. Learn to apply compost in soil enrichment, erosion control, and plant disease suppression.							
Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Learning Outcome	ICT Tools	Reference books
July	4/07/2026	4/07/2026	1	Introduction to Composting	Students will be able to explain the concept and importance of composting	PowerPoint Presentations	1. Cromell, C., and The National Gardening Association. Composting For Dummies. For Dummies, 2010. 2. Jenkins, J. The Humanure Handbook: A Guide
	6/07/2026	11/07/2026	1	Definition and importance of composting	Students will be able to explain the concept and importance of composting	PowerPoint Presentations	

	13/07/2026	18/07/2026	1	Types of composting -aerobic	Students will be able to differentiate between aerobic, anaerobic, and vermicomposting based on their processes, characteristics, and applications.	PowerPoint Presentations	to Composting Human Manure. Jenkins Publishing, 2005. 3. Martin, D. L. Rodale's Basic Organic Gardening: A Beginner's Guide to Starting a Healthy Garden. Rodale Books, 2014. 4. McLaughlin, C. The Complete Idiot's Guide to Composting. Alpha Books, 2015. 5. Pleasant, B., and Martin, D. L. The Complete Compost Gardening Guide: Banner batches, grow heaps, composter compost, and other amazing techniques for saving time and money, and producing the most flavorful, nutritious vegetables ever. Storey Publishing, LLC, 2008.
	20/07/2026	25/07/2026	1	anaerobic	Students will be able to differentiate between aerobic, anaerobic, and vermicomposting based on their processes, characteristics, and applications	PowerPoint Presentations	
August	1/08/2026	1/08/2026	1	vermicomposting	Students will be able to differentiate between aerobic, anaerobic, and vermicomposting based on their processes, characteristics, and applications	PowerPoint Presentations	
	3/08/2026	8/08/2026	1	Components of compost	tudents will be able to identify the essential components of compost and explain their roles		

					in the composting process. Biological and Chemical Processes		
	17/08/2026	22/08/2026	1	Microbial activity and decomposition	Students will be able to describe the role of microorganisms in the decomposition of organic matter during composting.	PowerPoint Presentations	
	24/08/2026	29/08/2026	1	Microbial activity and decomposition	Students will be able to describe the role of microorganisms in the decomposition of organic matter during composting.	PowerPoint Presentations	
September	01/09/2026	05/09/2026	1	Carbon to nitrogen ratio and its importance	Students will be able to explain the significance of the carbon-to-nitrogen (C:N) ratio in producing efficient and high-quality compost	PowerPoint Presentations	
	07/09/2026	12/09/2026	1	Carbon to nitrogen ratio and its importance	Students will be able to explain the significance of the carbon-to-nitrogen (C:N) ratio in producing efficient and high-quality compost	PowerPoint Presentations	

	21/09/2026	26/09/2026	1	Factors affecting composting temperature, moisture,	Students will be able to analyze how temperature, moisture, aeration, and particle size influence the efficiency and quality of the composting process	PowerPoint Presentations	
October	1/10/2026	3/10/2026	1	Factors affecting composting aeration, particle size	Students will be able to analyze how temperature, moisture, aeration, and particle size influence the efficiency and quality of the composting process		
	5/10/2026	10/10/2026	1	Revision		PowerPoint Presentations	