

Practical Plan

Name of the college: Government College of Arts, Science & Commerce, Sanquelim Goa				
Name of Faculty: Ms. Shweta Patil		Subject: Geography		
Paper code: GOS-241		Program/Course: BSc		Division:
Academic year: 2026- 2027		Semester: III		Total Practical/Labs: 1 practical (2hrs) Per Week
Course Objectives: 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.				
Expected Course Outcomes:				
Course Learning Outcome: 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	Practical/ Labs Scheduled Date	No. of Practical’s/ Labs Planned	List of Experiments	Reference books
July	10/07/2026	02	Types of compostable materials Carbon-to-nitrogen ratios	Cromell, C., and The National Gardening Association. Composting For Dummies. For Dummies, 2010. 2. Jenkins, J. The Humanure Handbook: A Guide 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, comforter compost, and other amazing techniques for saving time and money, and producing the most flavorful, nutritious vegetables ever. Storey Publishing, LLC, 2008.
	17/07/2026	02	Contaminants to avoid ,Composting Process	
	24/07/2026	02	Decomposition and the role of microorganisms	
	31/07/2026	02	Factors affecting composting Composting times and temperatures	
August	07/08/2026	02	Design and construct a compost bin or pile using locally available materials	

	14/08/2026	02	Document the setup process, including materials used,	Online Resources Compost Junkie: Compost Junkie is a website dedicated to composting education and resources. They offer a variety of articles and guides on composting, including how-to guides, troubleshooting tips, and composting methods: https://www.compostjunkie.com/ 2. Composting Association of Vermont: The Composting Association of Vermont is a non-profit organization that promotes composting and provides resources and education on composting in Vermont. Their website offers a variety of resources on composting, including videos, fact sheets, and a composting handbook: https://compostingvermont.org/ 3. Cornell Waste Management Institute: The Cornell Waste Management Institute is a program of Cornell University that focuses on waste reduction and sustainable materials management. They offer a variety of resources on composting, including fact sheets, research reports, and composting guides: https://cwmi.css.cornell.edu/composting.htm
	21/08/2026	02	design choices, and initial measurements (e.g., temperature, moisture content).	
	28/08/2026	02	Test the finished compost for nutrient content (NPK analysis), pH, and maturity.	
September	4/09/2026	01	Troubleshooting common problems	
	11/09/2026	01	Uses of compost in gardening and agriculture	
	25/09/2026	02	Field Trip to Composting Facilities and Report	
October	9/09/2026	02	Revision	

