



INNOVATIVE TEACHING-LEARNING (PEDAGOGY) REPORT

Title of the Activity	Preparation of Vitamin rich Fruit Jam – Simulation-Based Product Formulation Activity
Subject	FT310E: Food Processing
Department	Food Technology
Academic Year	2024-25
Name of the Faculty	Prasanna Prakash Bhalerao
Objective(s)	<ul style="list-style-type: none">✓ To enhance understanding of jam formulation, particularly for vitamin C retention.✓ To develop skills in ingredient-function matching and process planning.✓ To promote critical thinking, teamwork, and decision-making in confectionery development.
Course Outcomes Addressed	<ul style="list-style-type: none">✓ CO1: Understand principles of post-harvest technology.✓ CO2: Identify and describe preservation methods.✓ CO3: Analyze post-harvest losses and suggest solutions.✓ CO4: Apply techniques to enhance food quality and shelf life.
Materials/Resources Required	<ul style="list-style-type: none">✓ fruit pulp, pectin, citric acid, sugar, ascorbic acid, preservatives, etc.
Brief Description of the Activity	<ul style="list-style-type: none">✓ Students are given a “Product Brief” – develop a vitamin C-rich fruit jam (e.g., Amla-orange or Guava).✓ Teams choose ingredients and appropriate processing steps.✓ They must justify their formulation and preservation strategy to minimize nutrient loss and optimize shelf life.
Learning Outcome	<ul style="list-style-type: none">✓ Improved understanding of formulation components and processing effects on heat-labile nutrients.✓ Ability to critically evaluate and justify food processing decisions.✓ Enhanced teamwork and problem-solving skills.



Glimpses

Processing outline for Jam and Jelly

