

**Learning Support Facilities of the
Agrotechnology Study Program**

**FOOD PROCESSING
TECHNOLOGY LABORATORY**



UNIVERSITY NUSA CENDANA

2024

Description

Food Processing Technology Laboratory is an academic facility under the management of the Faculty of Agriculture, Universitas Nusa Cendana. This laboratory focuses on the development and application of processing technologies for agricultural products to enhance their added value, quality, and sustainability through various innovative processing methods.

Functions and Roles

1. Facilitates practical sessions for students to understand and apply techniques in agricultural product processing. Supported courses in the Study Program include:
 - Agricultural Product Processing Technology,
 - Sensory Analysis
 - Packaging and Storage Technology
 - Dryland Agricultural Product Processing Technology,
 - Spice and Essential Oil Technology,
 - Nutraceuticals and Functional Foods,
 - Fermentation Technology
 - Food Microbiology
 - Post-Harvest Technology
 - Agricultural Waste Management Technology
2. Supports research activities in the field of agricultural product processing.
3. Provides training and capacity building in sustainable, technology-based agricultural processing.

Available Laboratory Equipment

- Double-Door Refrigerator
- Freezer
- Binder Oven
- Microwave
- Pasta and noodle press
- Turbo Grande Mixer (EHM 9594)
- Vacuum Sealer
- Gas Stove
- Hot Plate Stirrer
- Water activity meter (Aw meter)
- Blender
- Pressure cooker (Presto)
- Vacuum desiccator with ceramic plate

- Viscometer
- Multimodule Vortex Mixer
- Mixer
- pH Meter
- Refractometer
- Analytical Balance
- Micropipette
- Pyrex Thermometer
- Manual Thermometer
- Binocular Optical Microscope
- Monocular Optical Microscope
- Spinner
- Slicer
- Cooking Utensils

Documentation of Laboratory Equipment



Spinner



Food Slicer



Manual Oil Press



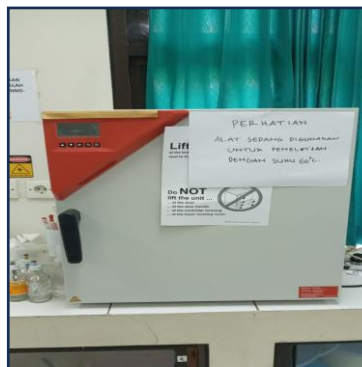
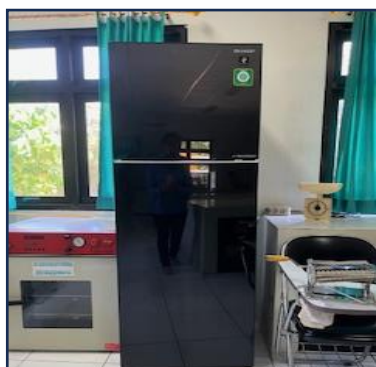
Mixer



Alkohol Meter



Blender





Water Activity Meter



Stirrer + Hot Plate



Dessicator



Freezer



Digital Balance



Viscometer



Vacuum Sealer



Stomacher



Moisture Analyzer

Documentation of Student Laboratory Activities



Practiccum

1. <https://youtu.be/Q45zSsED4nE?si=u2xBS5LcgYM9ame7>
2. <https://youtu.be/zDIcDmNLOa4?si=DqmLC-H6Io3iz6wK>