



HEComp

Bridging the Gap Between Student
Competences and Working Life Needs

E-BOOK

INTRODUCTION TO INTERNATIONAL
PROJECTS - COMPOSTING
MANAGEMENT SYSTEM



COMPOSTING MANAGEMENT SYSTEM

Countries: Brazil and Paraguay

Context

- **IES:** FAVAG, INATEL, UNAE, and UNI
- **Students involved:** 52
- **Period:** 2024

Project challenge

Solve the municipal problem of storing organic solid waste in inappropriate locations.



Objective

- Develop a compost management system for Brazilian and Paraguayan municipalities involved in the project, so that solid organic waste can be converted into biofertilizer for use in public squares and gardens.

FAVAG



- **Teacher:** Luis Tancredi
- **Subject:** Extension Project
- **Course:** Interdisciplinary
- **Organization:** Janaúba Municipal Environment Secretariat
- **Activity:** Develop a compost management system model applicable to the municipality

UNAE



- **Teacher:** Estelbina Esteche
- **Subject:** Research Seminar
- **Course:** Business
- **Organization:** Municipality of Encarnación
- **Activity:** Survey and registration of sources of solid waste production from organic compost.

INATEL



- **Teacher:** Guilherme Marcondes & Leovani Guimarães
- **Subject:** Final Project
- **Course:** Computer and Software Engineering
- **Organization:** Municipality of Encarnación
- **Activity:** Develop an application that provides the location of waste collection points in municipalities

UNI



- **Teacher:** Marcos Delvalle & Gabriel Rodriguez
- **Subject:** Development and Evaluation of Investment Projects
- **Course:** Public Administration
- **Organization:** Municipality of Natalio
- **Activity:** Survey and registration of sources of solid waste production from organic compost





International Dimension

- Online meeting between FAVAG, UNAE, and UNI professors to define the guidelines for managing the composting system
- Online meeting between INATEL, UNAE, and UNI students to gather the functional requirements for developing the application
- Final session for presenting the projects between Brazilian students (FACAG and INATEL) and Paraguayan students (UNAE and UNI) through an online meeting



Results

- The project was included in the government program for managing the city of Janaúba.
- The municipality (Encarnación) expressed interest in continuing to work together with UNAE on the proposal.

