

IDENTIFICATION

Course code : ESI-SPI-CI-AG4-S8-UE2-EC7
ECTS : 1

DURATION

Lectures : 0
Tutorial classes : 8
Labs : 0
Total : 8

Project :
Personnal work :

ASSESSMENT

TEACHING MATERIALS

LANGUAGE

English

CONTACT

Cyrielle GARCIA Kaies SOUIDI (RP)
kaies.souidi@univ-reunion.fr
cyrielle.garcia@univ-reunion.fr

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UE : UE8-R

COURSE : Research seminar

SCOPE OF THE COURSE

OBJECTIVES

This module aims to raise students' awareness of the Research & Development (R&D) approach and academic research. It seeks to explore current technological and scientific challenges related to the valorization of tropical agro-resources in an island environment. Students will be led to decipher the interaction between processing methods, preservation of nutritional qualities, and specific geographical constraints.

COMPETENCE AND SKILLS

Upon completion of this module, the student will be able to : - Synthesize a current research problem based on an expert intervention or a scientific article reading. - Identify technological bottlenecks related to the processing of tropical products (fruits, starchy foods, spices, seafood). - Argue the challenges of food self-sufficiency and the valorization of co-products in an island environment. - Develop a critical mindset regarding technical innovations and scientific publications.

PROGRAM

The program is structured around cycles of conferences and supervised analysis sessions. - Scientific monitoring and reading methodology (how to read, analyze, and critique a scientific article; scientific databases; introduction to specific issues : tropical biodiversity and food resilience in islands, etc.). - Thematic conferences (e.g., valorization of tropical agroresources; Nutrition and Health in tropical island environments). - Debates and exchanges : analysis of a research problem encountered during previous sessions; debate on the role of the food engineer in technology transfer between laboratory and industry, etc.

BIBLIOGRAPHY

Scientific productions/Research projects conducted by local research actors (UMR QualiSud, CIRAD, UR). Articles from international journals : Journal of Food Engineering, Food Chemistry, or specialized journals on tropical products. Institutional reports : Reports from CIRAD, IRD, and ANSES on overseas contexts.

REQUIREMENTS

Knowledge in sciences and technologies, food processes.

Fluency in technical English (for reading article abstracts).

General knowledge of local agri-food sectors (fruits, vegetables, sugarcane, fishing).