

IDENTIFICATION

Course code : E2CP3A5
ECTS : 1

DURATION

Lectures : 4
Tutorial classes : 4
Labs : 4
Total : 12

Project :
Personnal work :

ASSESSMENT

2 Written exams (2h/2h) + 1 Lab report

TEACHING MATERIALS

LANGUAGE

English

CONTACT

Joël GRILLASCA
joel.grillasca@univ-reunion.fr

Modifié le : 14 juillet 2026

UE : AGROALIMENTAIRE

COURSE : Cell Biology - Fundamentals of Microbiology

SCOPE OF THE COURSE

OBJECTIVES

To provide the foundations of cell structure and function, and introduce the main microorganisms (bacteria, viruses, fungi).

COMPETENCE AND SKILLS

Identify the components of eukaryotic/prokaryotic cells. Understand essential mechanisms : cell division, membrane transport, communication. Recognize microorganisms and their roles (health, industry, environment). Follow microbiological safety rules in the laboratory.

PROGRAM

Eukaryotic vs prokaryotic cell : nucleus, organelles, plasma membrane.

Cell cycle, mitosis and meiosis.

Membrane transport : diffusion, osmosis, ATP-dependent pumps.

Introduction to microorganisms : bacteria, viruses, yeasts.

BIBLIOGRAPHY

REQUIREMENTS