



SH01002 GENERAL MICROBIOLOGY (VI SINH VẬT ĐẠI CƯƠNG) (Credits 2: lecture 1,5; practice: 0,5; self-study 6)



EXPECTED LEARNING OUTCOME

Course objective	COURSE EXPECTED LEARNING OUTCOMES After successfully completing this course, students are able to:	Expected learning outcomes of program
Knowledge		
CELO1	Evaluate the roles, potential applications of microorganisms in nature and our life.	ELO1, ELO3
CELO2	Analyse some morphological characteristics, cell structure, grow and developments of some main microbial groups.	ELO1, ELO3
CELO3	Analyse of the effects of environmental conditions on the microbial growth and developments. .	ELO1, ELO3
Skills		
CELO5	Proficient in the use of microscopes and basic equipments in the practice of microbiology, mastering microscope slides.	ELO11
Personal autonomy and responsibility		
CELO6	Actively update and acquire knowledge and experience to improve professional qualifications. Demonstrate honesty in honest in reporting, taking tests and exams.	ELO15

STUDENT TASKS

- ✓ Attendance: All students taking this course must attend at least 2/3 of the total theoretical hours of the course, actively participate in discussions.
- ✓ Discussion: discuss the questions that the lecturer raises in the lessons and discussion periods
- ✓ Preparing for the lesson: All students attending this course must prepare for the lesson according to the learning plan given by the lecturer.
- ✓ Mid-term exam: Students who do not take the midterm exam will be given a score of zero.
- ✓ Final exam: All students taking this course must take the final exam
- ✓ For online learning: Students need to install online learning software and fulfill the requirements for online learning.

TEACHING METHODS

- ✓ Lecturers will teach theoretical lessons using presentations, oral communication and illustration methods;
- ✓ Blended learning: Teaching through the E-learning system. Teaching using MS Team software or the software choosed by the Vietnam National Academy of Agriculture for online teaching

LEARNING METHODS

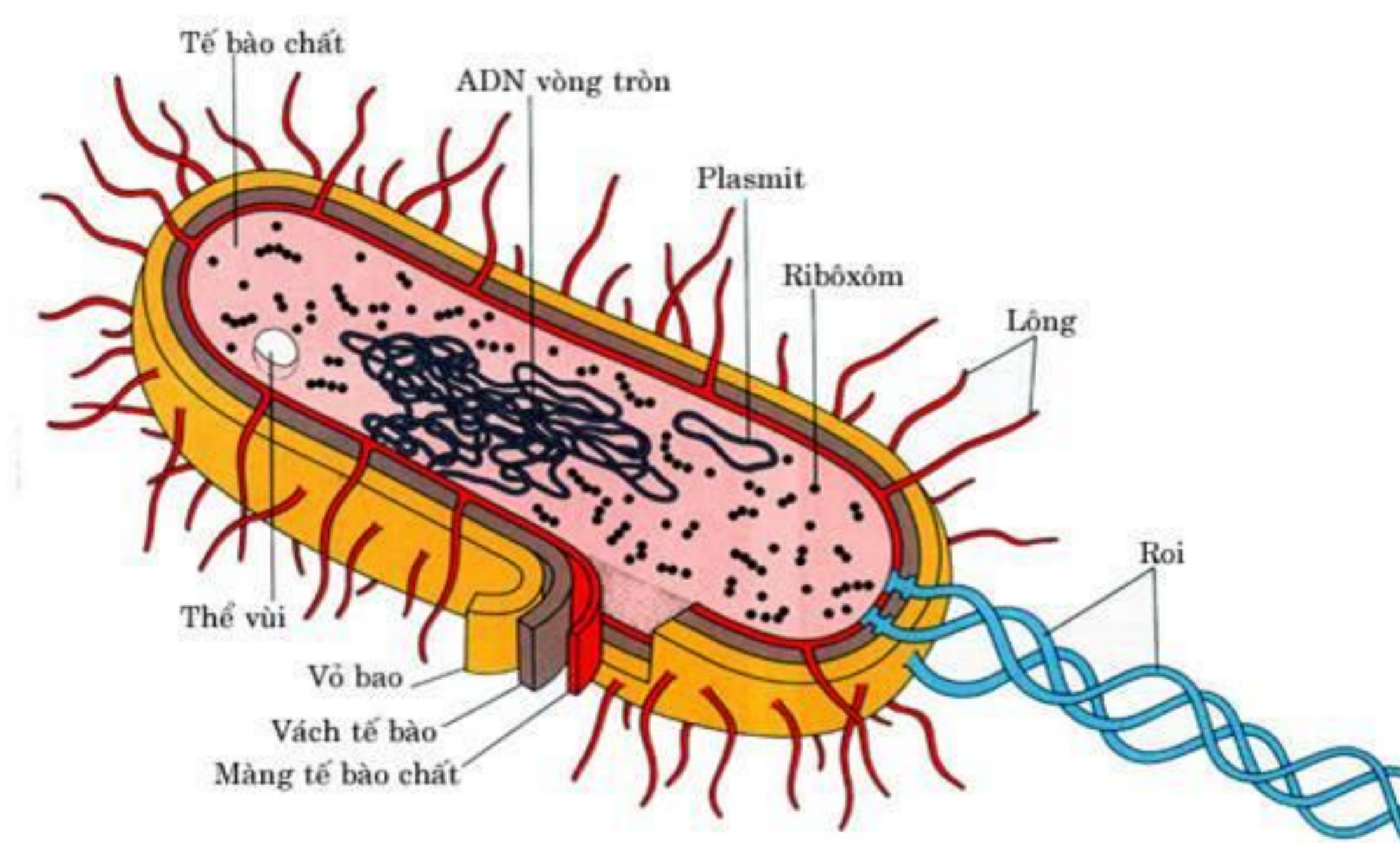
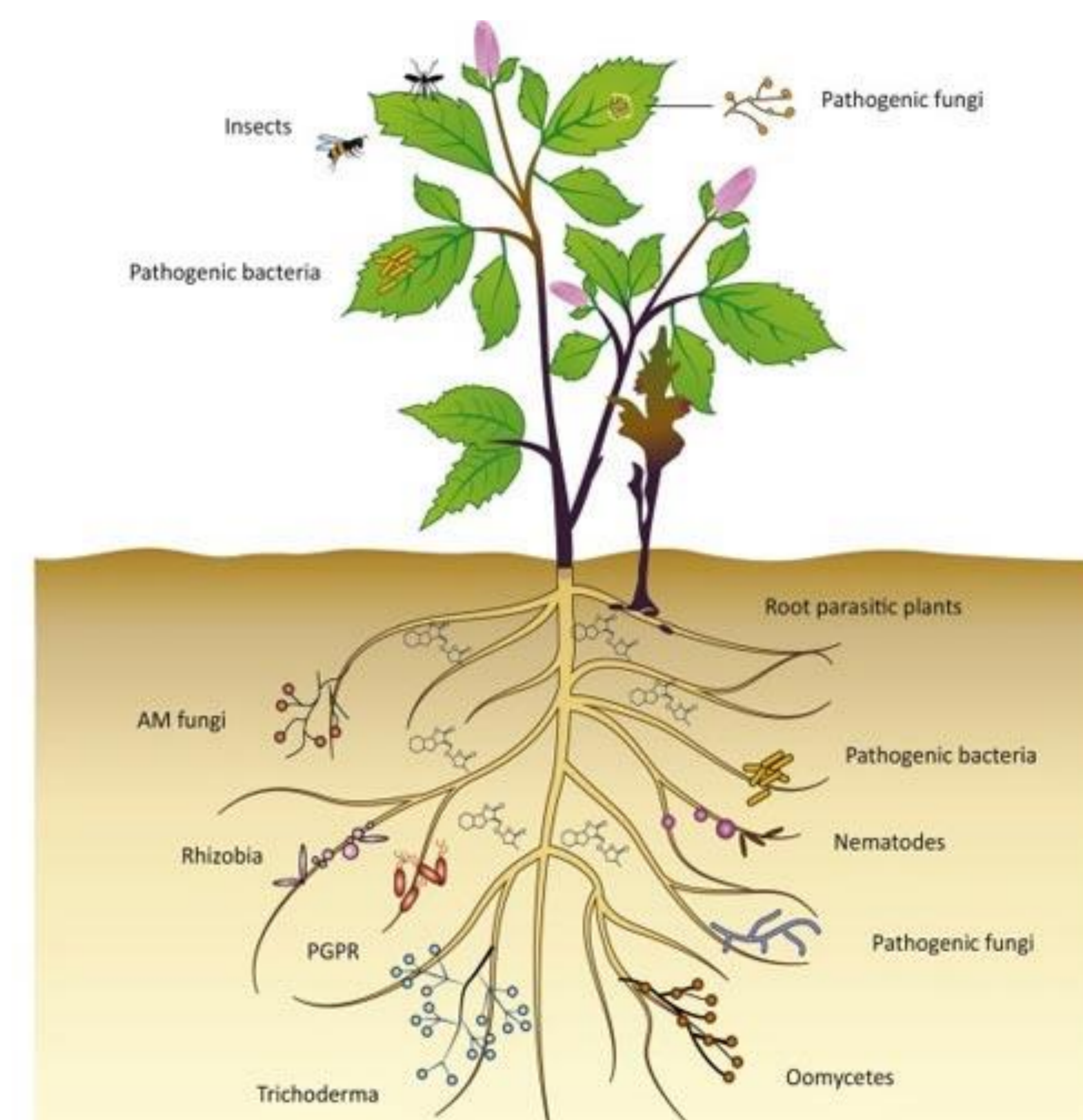
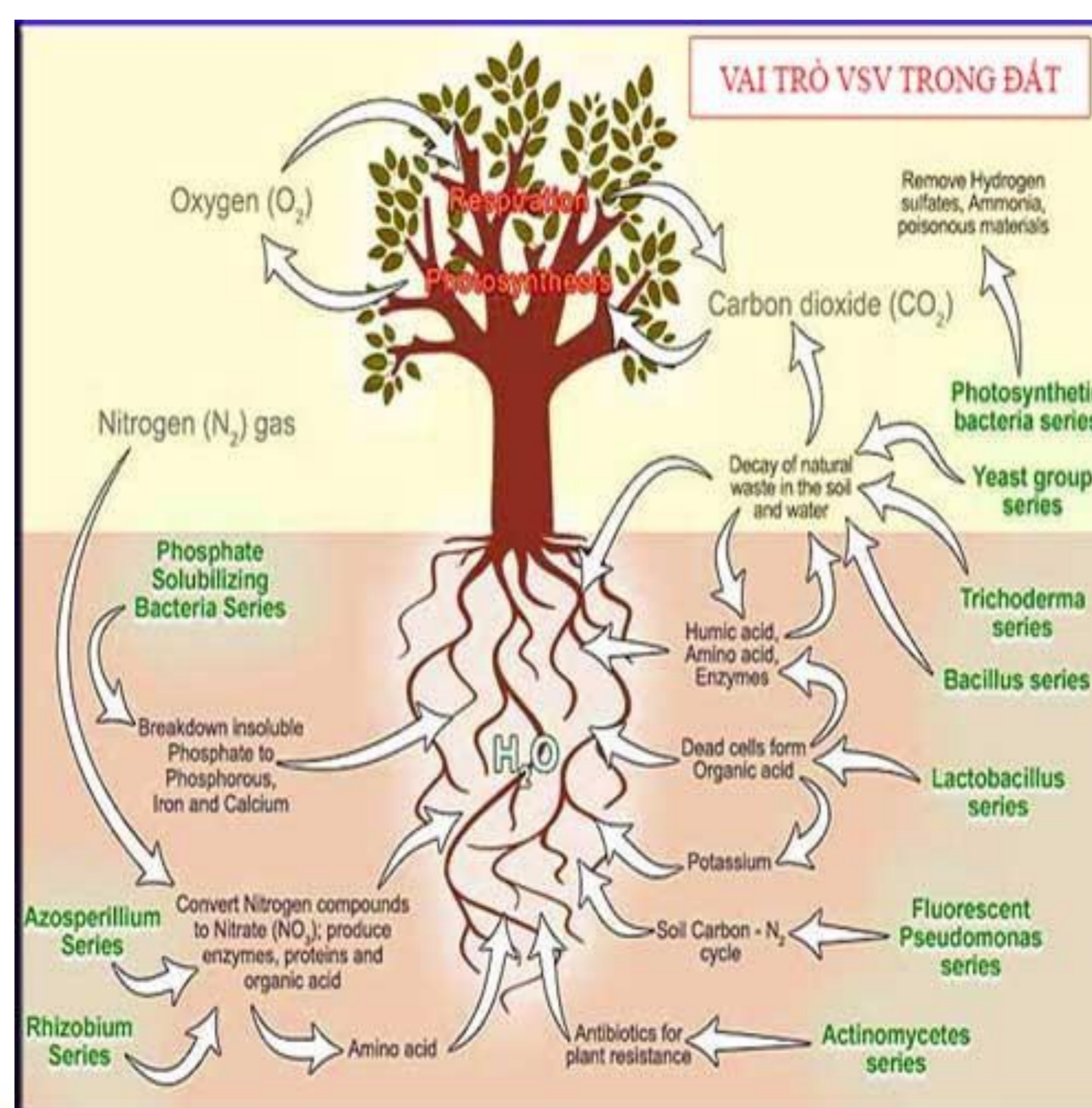
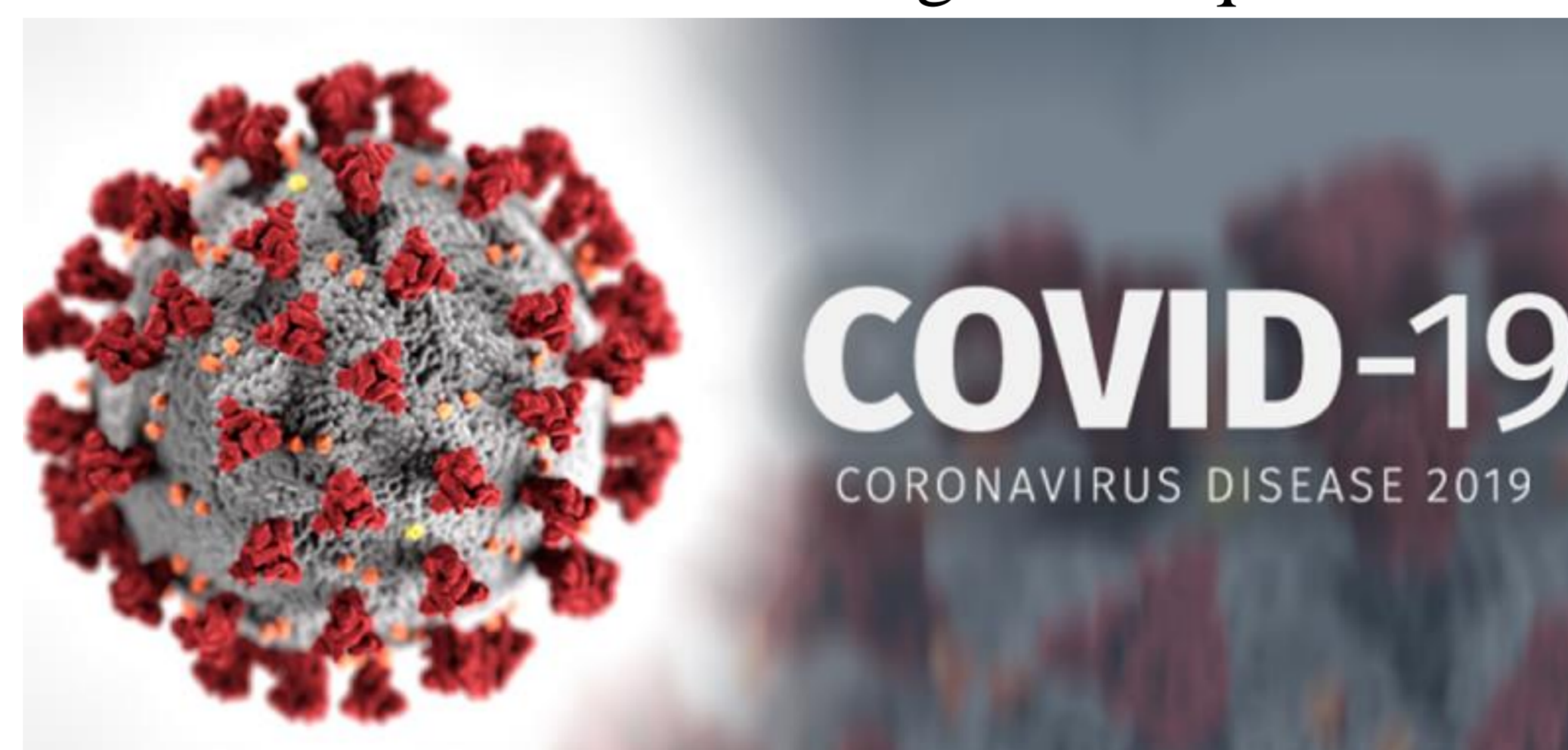
- ✓ Students read class materials by themselves, prepare for the lessons based on the learning plan given by the lecturers before going to class, listen to the lectures, learn through the E-learning system.
- ✓ Students participate in learning activities in class: answering questions, doing exercises, discussing in groups.

CONTENT

Chapter 1. General knowledge of microbiology;
Chapter 2. Viruses;
Chapter 3. Bacteria;
Chapter 4 Eukaryotes;
Chapter 5. Nutrition and Microbial Growth

ASSESSMENT METHODS

- Grade: 10 marks
- The average mark of the course is the sum of the rubric marks after multiplied by the respective ratio of each rubric
- Attendance: 10%
- Mid-team exam: 30%, writing or test quiz.
- Final exam/: 60%: writing or test quiz



LECTURERS

1. Nguyen Van Giang, Acc.Prof. (0986383847, nvgiang@vnua.edu.vn).
2. Tran Thi Hong Hanh, MSc. (0988029388, tthanh@vnua.edu.vn)
3. Nguyen Thanh Huyen, MSc, (0966201281, nthuyen@vnua.edu.vn)