



SH03014: PLANT CELL AND TISSUE CULTURE TECHNOLOGY

(CÔNG NGHỆ NUÔI CÂY MÔ TẾ BÀO THỰC VẬT)

Credits: 3 credits (Lecture: 3 – Practice: 0)

EXPECTED LEARNING OUTCOMES

Course objectives	COURSE EXPECTED LEARNING OUTCOMES After successfully completing this course, students are able to	Expected learning outcomes of program
Knowledge		
CELO1	Presenting basic concepts and definitions of: plant cell, tissue culture, plant cell culture	ELO4,ELO6
CELO2	Presenting the scientific basis and principles of plant tissue culture technology.	ELO4,ELO6
CELO3	Applying the knowledge learned to understand and analyze problems related to the culture medium and the conditions of plant tissue and cell cultures.	ELO4,ELO6
CELO4	Applying the main techniques of tissue culture technology, plant cells in research and actual production	ELO4,ELO6
Skills		
CELO5	Applying knowledge learned to collect, analyze and process information for research and application related to plant cell culture technology.	ELO10
Personal autonomy and responsibility		
CELO6	Implementing scientific researches, applying advances in biotechnology into practice.	ELO13

CONTENT

Chapter 1: General concept and history

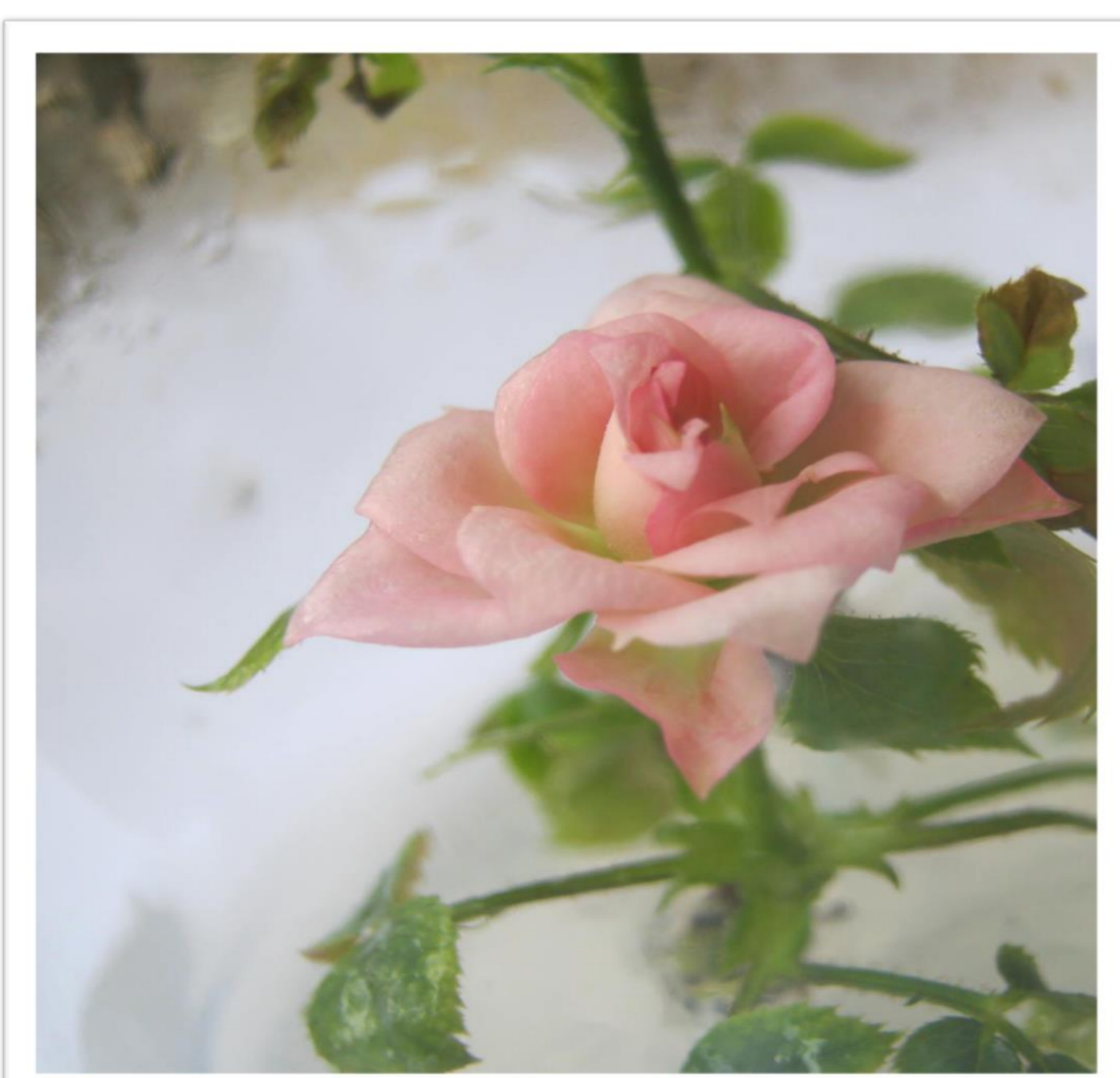
Chapter 2 Principles of plant tissue culture technology

Chapter 3: Tissue culture medium and conditions

Chapter 4: Techniques and applications of plant tissue culture

LEARNING METHODS

- Read lecture notes, books and references before attending the class.
- Students are required to listen to lectures in class and perform other learning activities such as solving practice problems after class.
- Prepare and actively participate in discussion



STUDENT TASKS

- Attendance: Students are required to attend at least 2/3 of the total theory lectures of the course.
- Preparation for the lecture: Students are required to read lecture notes, text books and references before attending the class.
- Group discussion and presentation: Students are required to engage in group discussion.
- Final exam: Students must take the final exam and meet requirements.
- For online learning: Students need to install online learning software and fulfill the requirements for online learning.



ASSESSMENT METHODS

- Attendance: According to regulations of VNUA.
- Midterm exam: group discussion and presentation with satisfied results.
- Final exam: Final exam is 75 minutes long with a 68-question quiz.
- For online evaluation: Students need to install software and fulfill the requirements for online evaluation.
- Grading: 10 marks
- Weighing:
 - Attendance: 10 %
 - Formative assessment: 30%
 - Final exam: 60%

LECTURERS

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