

# SH03015: PLANT CELL AND TISSUE CULTURE TECHNIQUES LAB (THỰC HÀNH CÔNG NGHỆ NUÔI CẤY MÔ VÀ TẾ BÀO THỰC VẬT) Credits: 1 credit (Lecture:0 – Practice: 01)

## **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	Using probably chemical preparing techniques including plant growth regulators, MS salt solutions,	ELO5, ELO11	
	culture medium and disinfectant solutions.		

CELO2	Using probably several techniques such as using plant growth regulators to control the morphological development of plant samples, in vitro micropropagation, acclimatization in the greenhouse.	ELO11
CELO3	Applying efectively culture techniques of pollen/anther, embryo and meristem in specific purposes.	ELO3, ELO11
CELO4	Practicing effectively with basic instrument in plant tissue culture lab and basic plant tissue culture techniques.	ELO9, ELO10, ELO11
Skills		
CELO5	Studying actively and applying good plant tissue culture techniques in work	ELO13

#### <u>CONTENT</u>

• This course is all about several

#### **STUDENT TASKS**

 Attendance: Students are required to attend all practicing classes of the course.

## **ASSESSMENT METHODS**

 Attendance: According to regulations of VNUA.

techniques in plant tissue cultures including culture medium preparing, sterilization, in vitro propagation, acclimatization, meristem isolation to produce free-virus plants, pollen/anther, and embryo culture.

### **LEARNING METHODS**

Read lecture notes, books, and references before attending and

- Preparation for the lecture: Students are required to read lecture notes, text books and references before attending the class.
- Students are required to submit the laboratory report on time.
- Final exam: Students must take the final exam and meet requirements.



- Laboratory skills and report are used to evaluated formative assessment
- Final exam: Final exam is 30 minutes long with a 20-question quiz.
- Grading: 10 marks
- Weighting:
  - ✓ Attendance: 10 %
  - ✓ Formative assessment: 30%
  - ✓ Final exam: 60%

# **LECTURERS**

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- 3. Dr. Đinh Trường Sơn, 0968.133.927,

#### practicing in the class.

 Students are required to listen to lectures in class and perform other plant tissue culture techniques and preparing the report on scientific experiments.



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