



# SH03058: HIGH-TECH IN AGRICULTURE (NÔNG NGHIỆP CÔNG NGHỆ CAO)

Credits: 2 credits (Lecture: 2 – 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
<b>Knowledge</b>		
CELO1	Apply basic scientific and economic principles to the analysis of high technology development trends in agriculture in Vietnam and others countries.	ELO4, ELO5
CELO2	Describe farming practices, the role of IPM in greenhouse and the prospects for greenhouse application	ELO4, ELO5
CELO3	Apply landless planting techniques; Apply and evaluate the effectiveness of the principles and techniques of landless technology.	ELO4, ELO5
CELO4	Analyze basic economic and profitability factors of high-tech agribusiness; Manage plans, production and marketing of crop products; Anticipate the economic aspects of applying high technology to large-scale commercial production	ELO4, ELO5
CELO5	Analyze and evaluate the efficiency of operating models of management, operation and development of high technology in Vietnam and others countries; Identify, practice and evaluate the effectiveness, safety and sustainability of high-tech agricultural production models	ELO4, ELO5, ELO12
<b>Personal autonomy and responsibility</b>		
CELO6	Implementing scientific researches, applying advances in biotechnology into practice.	ELO12, ELO15

## CONTENT

- Chapter 1: General of High-tech in Agriculture
- Chapter 2: Farming system in greenhouse
- Chapter 3: Landless planting technology
- Chapter 4: Some economic aspects of commercial production
- Chapter 5: Models of management, operation and development of high-tech agriculture in Vietnam and others countries
- Chapter 6: Practical model of high tech agriculture

## 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.
- Formative assessment and 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.
- Exercise and progress tests: Students must complete the exercises, 15-minute tests, group discussion and presentation with satisfied results.
- Students are required to engage group work, presentation and discussion.
- Final exam: Final exam is 50 minutes long with a 40-question quiz and 1 question.
- For online evaluation: Students need to install software and fulfill the requirements for online evaluation.
- Grading: 10 marks
- Weighting:
  - ✓ Attendance: 10 %
  - ✓ Formative assessment: 15%
  - ✓ Group discussion: 15%
  - ✓ Final exam: 60%

## LECTURERS

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