NH02005: EXPERIMENTAL METHOS

Total credits 2: theory 1.5 - practice 0.5 - self-study 6

EXPECTED LEARNING OUTCOMES

Notation	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledge		
CELO1	Apply research methods in the field of biology to improve the accuracy of the experiment	ELO3
CELO2	Use proficiently of requirements and technical criteria to design experiments in specific conditions	ELO3
CELO3	Apply statistical standards to publish research results to ensure convincing	ELO3
Skill		
CELO4	Perform proficiently the analysis of research results by some statistical software	ELO10
CELO5	Select flexible of methods to present the research results	ELO6
Ethics and Attitude		
CELO6	Establish self-learning habits to improve professional qualifications	ELO15

COURSE DESCRIPTION

- Chapter 1: Introduction to scientific research in agriculture
- Chapter 2: Experimental design
- Chapter 3: Conduct the field experiment
- Chapter 4: Summarize obtained data
- Chapter 5: Estimation
- Chapter 6: Statistical hypothesis testing
- Chapter 7: Anaysis of variance
- Chapter 8: Correlation and regression analysis
- Chapter 9: Summarize experiment

LEARNING METHODS

- Learning in class
- Self learning
- E-learning

STUDENT TASKS

- Attend at least 75 % of the theoretical class and fully 3 practice class in the computer lab
- Prepare for lectures, read reference books before class
- Self-study, do the homework at the end of each chapter in the textbook
- Take the midterm exam, practice exam and final exam.

LECTURERS

1. PhD. Do Thi Thuong
2. PhD. Phan Thi Thuy

ASSESSMENT METHODS

- Grading: 10
- Average score of course is the total points of rubrics multiplied by the respective weight of each rubric.
- Formative assessment (10 %) : Participation; midterm exam, and homework.
- Midterm assessment (30 %): Practice attitude, and practice test.
- Summative assessment (60 %): Final exam

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