

RQ03011: PROJECT 2 – GREENHOUSE PRODUCTION AND MANAGEMENT

1. General information

- Term: 7
- Credits: **Total credits 3 (Lecture: 0 – Practice: 3) - Self-study: 9** credits
- Credit hours for teaching and learning activities: 45 teaching hours
 - Lectures: 0 teaching hours
 - Presentation and discussion: 15 teaching hours
 - Practice in project: 30 teaching hours
- Self-study: 135 teaching hours (50 minutes each)
- Department conducting the course:
 - Department: Horticulture & Landscape
 - Faculty: Agronomy
- Kind of the course:

Foundation <input type="checkbox"/>		Fundamental <input checked="" type="checkbox"/>		Option 1 <input type="checkbox"/>		Option 2 <input type="checkbox"/>	
Compulsory <input type="checkbox"/>	Elective <input type="checkbox"/>	Compulsory <input type="checkbox"/>	Elective <input type="checkbox"/>	Compulsory <input type="checkbox"/>	Elective <input type="checkbox"/>	Compulsory <input checked="" type="checkbox"/>	Elective <input type="checkbox"/>

- Prerequisite course(s): Project 1 – Production management of horticultural products

2. Course objectives and expected learning outcomes

* *Course objectives:*

- Knowledge: The module aims to provide learners with knowledge about implementing a personal project on the production and production management of fruit and vegetable crops and ornamental plants.
- Skills: The course trains learner individual skills in building a project, choosing appropriate technical and technological solutions to create complete fruit and vegetable products and landscape plants. Develop skills to understand market needs and cooperate with the public to produce products to market. Organize exhibitions, promote and sell project products.
- Attitude: The module forms learners' attitudes that show initiative in updating new knowledge and skills, and being open-minded in creating new products in the field of vegetables, fruits, and landscaping.

* *Course expected learning outcomes*

Notation	Course expected learning outcomes (CELOs) After successfully completing this course, students are able to	Program performance criteria (PPC)
Knowledge		
CELO 1	Applying scientific knowledge to building advanced technical models to produce fruit and vegetable products to meet market demand.	1.1
CELO 2	Applying crop science knowledge to build advanced technical models to produce fruit and vegetable products to meet market	2.1

	demand.	
CELO 3	Apply knowledge of landscape and landscape design to select landscape design ideas to meet cultural, social, environmental and economic needs.	3.1
Skills		
CELO 4	Proficiently apply skills to build and develop internal relationships, including establishing connections, resolving conflicts and external relations in the group's working process.	4.2
CELO 5	Researching the domestic market to develop fruit, vegetable and landscape products that meet the requirements of public health, environment and economy.	7.1
CELO 6	Researching world markets to develop fruit, vegetable and landscape products that meet public health, environmental and economic requirements.	7.2
Attitude		
CELO 7	Determine your own capacity in producing and managing the production of fruit and vegetable products in a sheltered house.	10.1

3. Course description

PNH03011. Project 2 – **GREENHOUSE PRODUCTION AND MANAGEMENT.**
(3TC: 0 - 3 - 9): This module introduces how to carry out a personal production project in the field of fruit and vegetable crops and landscaping; How to build project description, write and present project report; practice applying techniques and technologies to create products meeting market requirements; how to promote multi-channel products, participate in the organization of fairs to sell the project's products and how to work with partners or investors such as companies, cooperatives, production units... in the field fruit and vegetable area and landscape.

4. Teaching and learning & assessment methods

CELOs	CELO1	CELO2	CELO3	CELO4	CELO5	CELO6	CELO6
Teaching and learning							
Practice	x	x	x				
Project	x	x	x	x	x	x	x
Assessment							
Rubric 1. Practice in project (70%)	x	x	x	x	x	x	
Rubric 2. Presentation (30%)			x	x	x		x

5. Student tasks

- Preparation for the project: All students attending this module must consult relevant documents, conduct market research and brainstorm ideas on implementation topics.
- Check progress: All students attending this module must participate in the progress report as prescribed.
- Project implementation: All students participating in this module must carry out the project according to the registered topic under the guidance of the teacher, write a diary of the implementation and collect the images and raw data in the project.

- Presentation and Discussion: All students attending this module must participate in presentations, report results and discussions as prescribed.

6. Text books and references

* *Text Books/Lecture Notes:*

1. Department of Horticulture & Landscape, 2015. Instruction Manual Project 2– Production and production management in the field of vegetables and fruits and landscape- For students majoring in horticulture and landscape technology (Version 2).
2. Textbooks/lectures related to the research content of the topic.

* *Additional references:*

- Vu Thanh Hai, Pham Van Cuong(2021). Effect of the dosage of organic fertilizer to replace inorganic fertilizer on growth, yield and quality of oranges in Bac Quang - Ha Giang and CS1 in Cao Phong - Hoa Binh. Vietnam Journal of Agricultural Science 2021, 19(2): 151-160.
- Nguyen Thi Phuong, Vu Thanh Hai, Nguyen Thi Thu Huong, Nguyen Thi Hai Xuan (2020). Evaluation of the effect of fruit pruning and mulching material on fruit size and quality of apple variety 05 (ziziphus mauritiana lamk.). Vietnam Journal of Agricultural Science 3/2020, 18(1): 14-23.
- Đinh Hong Duyen, Nguyen The Binh và Vu Thanh Hai (2017). Selection of bacteria capable of decomposing by-products after harvesting lychee fruit. Scientific Journal of Can Tho University . 53b: 61-70.

7. Course outline

Week	Content	Course expected learning outcomes
1	<i>Introduction of Production Management Project in the field of vegetables, flowers, fruits and landscape</i>	
	<i>A/ Main contents: (1 hours)</i> - Forming a group - Assign topics to students and find ideas for projects - Discuss with the instructor to develop the project outline	CELO 1,3,4,5,6, 7
	<i>B/ Self-study contents: (3 hours)</i> <i>Find out the production process needed for the project</i> <i>Daily journaling</i>	
1-2	<i>Protect the project outline</i>	
	<i>A/ Main contents: (5 hours)</i> - Write project outline - Presentation of the project outline for the 1st time - Edit outline - Presentation of outline for the 2nd time - Submit project outline	CELO 1,3,4,5,6, 7
	<i>B/ Self-study contents: (15 hours)</i> <i>Synthesize information, write outline; write powerpoint presentations</i>	

	<i>Daily journaling</i>	
2-13	<i>Project implementation</i>	
	A/ Main contents: (20 hours) - Production organization, production management - Detailed planning for the project implementation process - Adjust the plan as necessary; - Progress report (2 times) - Planning product promotion - Sell products	CELO 1,2,3,4,5, 6,7
	B/ Self-study contents: (60 hours) Research technical measures; Product marketing methods Daily journaling	
13-15	<i>Product Showcases and Reports</i>	
	A/ Main contents: (3 hours) - Prepare product - Product display - Report presentation	CELO 5,6,7
	B/ Self-study contents: (9 hours) Prepare individual products; Daily journaling	
15	<i>Submit a report and summarize the project</i>	
	A Main contents: (1 periods) - Write a project summary report - Participating in the project review session - Present experiences and limitations that need to be overcome in the implementation process	CELO 5,7
	B/ Self-study contents: (3 hours) Write a final report; Daily journaling	