

Course RQ03044: INTERNSHIP 2: SKILLS IN GREENHOUSE PRODUCTION

1. General information

- Term: 6
- Credits: **Total credits 5 (Lecture: 0 – Practice: 5)**
- **Self-study: 15** credits
- Credit hours for teaching and learning activities: 75 hrs
- Self-study: 225 hrs.
- Department conducting the course:
 - Department: Horticulture & Landscaping
 - Faculty: Agronomy
- Kind of the course:

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

- Prerequisite course(s): none

2. Course objectives and expected learning outcomes

*** Course objectives:**

- Knowledge: Course aims to provide learners with knowledge on techniques of planting, caring, harvesting and preserving vegetables, flowers, fruits, and ornamental plants, roof structures and methods of operation greenhouse, production and business activities, and management of internship company.
- Skills: Course trains learners in the skills of propagation, care of vegetables, flowers, fruits and ornamental plants, and operating systems in the greenhouse.
- Attitude: Course provide students with attitudes of high responsibility in performing professional work, with a sense of accumulation of practical experience and lifelong self-study

*** Course expected learning outcomes**

Notation	Course expected learning outcomes After successfully completing this course, students are able to	PLO performance criteria
Knowledge		
CELO1	Applying knowledge of fruit, flower, vegetable and ornamental plant cultivation to production activities at an internship company in the field of fruit, flower, vegetable, and ornamental plants	2.1 (M)
CELO2	Apply landscape knowledge to the maintenance of landscape plants according to technical standards at the internship company.	3.4 (M)
Skills		
CELO3	Correct implementation of technical steps to produce fruit, flower, vegetable and ornamental plant at the internship site	6.3 (R)
CELO4	Choose new techniques (propagation, planting, operating irrigation systems, mixing media, preparing nutrient	8.1 (R)

	solutions, fertilizing, preventing pests and diseases, harvesting and preliminarily processing products) to proposed to be applied at internship company producing and trading fruit and vegetables and ornamental plants.	
CELO5	Behave appropriately for professionals, workers, managers, and clients at the internship company.	5.4 (R)
Attitude		
CELO6	Identify accurately your limitations with respect to the knowledge and competencies required to work in the field fruit, flower, vegetable and ornamental plant	10.1 (R)

3. Course description

This course includes: Applying knowledge of roof structures and operating techniques, indoor production techniques: propagation, planting, operation of irrigation systems, preparation of nutrient solutions, fertilizing, preparing substrates, making trellises, pruning trees, preventing pests and diseases, harvesting at production and trading establishments in the field of vegetables, fruits, and ornamental plants.

4. Teaching and learning & assessment methods

CELOs	CELO1	CELO2	CELO3	CELO4	CELO5	CELO6
Teaching and learning						
Discussion	x	x		x	x	x
Practice	x	x	x	x	x	
Assessment						
Rubric 1: Assessment of institution	x	x	x	x	x	
Rubric 2: Assessment of instructor	x	x	x		x	
Rubric 3: Final report assessment	x	x		x		x
Rubric 4. Presentation	x	x		x		x

5. Student tasks

- Must actively comply with the regulations on internships prescribed by VNUA, Faculty of Agronomy (internship duration, the deadline for submission of outlines, relevant documents .. .);
- Choose the internship location or have the guidance of the instructor before coming to the internship;
- Prepare a detailed outline for the internship and consult with both instructors;
- Participate fully during the internship at the facility, strictly complying with the regulations of institution.
- Complete the internship content and internship report

6. Text books and references

1. Faculty of Agronomy (2020). Handbook for intership
2. Department of Horticulture and Landscaping (2020). Internship Handbook 2: Skills in greenhouse production

7. Course outline

Week	Content	Course expected learning outcomes
1-2	Prepare to practice	
	A/ Content of implementation: (20 periods) - Contact and choose an internship - Discuss with instructors to develop internship outline - Edit internship outline	
	B/ Content to study at home : (20 hours) - Develop internship outline - Synthesize information, write outline; write powerpoint presentation	
3-7	Internship at the facility	
	A/ Implementation contents: (75 periods) Find out about the production and business situation of the internship site: - Organizational structure and production and business activities - Facilities and resources: capital, area and size of the greenhouse - Learn about production and business activities and business results in the field of greenhouse production. - Production management system: input for production (substrate, solution nutrition, fertilizers, management, maintenance and repair of greenhouses etc...) - Management system for post-harvest and product consumption under a greenhouse condition - Production and business results in the nearest time of the internship company. Practice professional skills : - Learn about the structure method of operating the greenhouse. - Learn the production process of vegetables, flowers, fruit and ornamental plants being applied at the internship facility, including contents such as: propagation, planting, operation of irrigation systems, mixing of media, nutrient solution preparation, fertilization, pest control, disease control, environmental control (temperature, light, humidity, gas mode ..). - Learn about harvesting techniques, post-harvest techniques and product consumption products for each product type. - Cleaning the greenhouse and necessary treatment measures after harvesting the products.	CELO1, CELO2, CELO3, CELO4, CELO5
	B/ Contents to be self-study at home : (75 hours) Daily diary entry Report weekly work progress to instructors Prepare resumes and internship reports	CELO1, CELO2, CELO3, CELO4, CELO5
8-9	Submit internship report and summary	
	A/ Implementation contents: (55 hours)	CELO1, CELO2,

	<ul style="list-style-type: none"> - Write internship report - Participate in the internship summary - Present the results of the internship in front of the board 	CELO3, CELO4, CELO5, CELO6
	<p><i>B/ Content to be self-study at home : (55 hours)</i></p> <p>Write a final report; Collect data and records Build the final presentation</p>	CELO1, CELO2, CELO3, CELO4, CELO5, CELO6