RQ03017: URBAN FORESTRY MANAGEMENT

1. General information

- Term: 6
- Credits: **Total credits 2 (Lecture: 1,5 – Practice: 0,5) - Self-study: 6** credits
- Credit hours for teaching and learning activities: 30 teaching hours
    - Lectures: 17 teaching hours (1 sections/week, 3 teaching hours/section, 50 minutes/teaching hour. Total in 6 weeks)
    - Presentation: 5 teaching hours (2 sessions, 2-3 teaching hours/ section, 50 minutes/teaching hour).
    - Practice in project: 8 teaching hours (1 section/week, 6 teaching hours/section, 50 minutes/teaching hour)
- Self-study: 90 teaching hours (50 minutes each)
- Department conducting the course:
    - Department: Horticulture & Landscape
    - Faculty: Agronomy
- Kind of the course:

Foundation □		Fundamental ☒		Option 1 □		Option 2 □	
Compulsory □	Elective □	Compulsory □	Elective □	Compulsory □	Elective ☒	Compulsory □	Elective □

- Prerequisite course(s):

2. Course objectives and expected learning outcomes

* *Course objectives***:**

- Knowledge: the course provides students with knowledge about urban green tree management; building and developing urban green tree nurseries; managing the system of street trees and park trees.

- Skills: The course trains students in analytical and problem solving skills in urban tree management projects.

- Attitude: the course gives student attitudes of a sense of being ready to update knowledge when there is an opportunity, fostering knowledge and capacity.

* *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 crop farming techniques to build high-tech models / advanced processes for urban green production to meet market demand.	2.2
CELO 2	Apply knowledge of landscape design to the maintenance of urban green landscapes according to artistic and technical standards.	3.4
Skills		
CELO 3	Transfer of technical advances and new technologies into urban	8.2

	green landscape management.	
Attitude		
CELO 4	Ready to study when given the opportunity to study and foster knowledge and capacity in the field of urban green tree management.	10.2

3. Course description

PNH03017. Urban forestry management. (2TC: 1.5 - 0.5 - 6): The course includes contents of basic knowledge on the concept, classification, role and characteristics of urban trees; organization and management of nurseries; organize the management of street trees and park trees; pruning, felling and tree care measures in urban areas.

4. Teaching and learning & assessment methods

CELOs	CELO1	CELO2	CELO3	CELO4
Teaching and learning				
Lecturing	x	x		
Practice in project	x	x	x	x
Presentation	x	x	x	x
Assessment				
Rubric 1. Practice in project (30%)	x	x	x	x
Rubric 2. Presentation (20%)			x	
Rubric 3. Final exam (50%)	x	x		

5. Student tasks

- Attendance and attitude: students must attend all lectures in class and practice.

- Prepare materials before going class (self-study): students must read or prepare materials related to the lesson in class following guidance of teacher.

- Assignment: All students attending this module must complete an individual essay assignment. Under the guidance of lecturers, students proceed to select essay topics, develop and write essay reports.

- Presentation: All students participating in this module must participate in individual assignment presentations and discussion of related issues.

- Practice in project: All students participating in this module must work on projects in groups. Under the guidance of the lecturer, students proceed to write the outline, deploy and write the project implementation report.

- Final exam: All students taking this course must take the final exam.

6. Text books and references

Text Books/Lecture Notes:

1. Lecture on Urban Greenery Management – 2021.1. Lecture on Urban Greenery Management – 2021.
2. Efe,Recep etc. (2018). Recent researches in science and landscape management.

Additional references:

1. Pham Thi Bich Phuong và Chen Zhongyi, 2020. Landscape art of Tuy Ly Vuong palace, Thua Thien Hue, Vietnam. Journal of Science Can Tho University. 56(6C): 271-279.
2. Pham Thi Bich Phuong, 2021. Actual situation of exploiting landscape trees at some locations in Hanoi city. Proceedings of the scientific conference in 2021, Faculty of Agronomy, Vietnam Academy of Agriculture. 44-50.
3. NĐ 64/2010/NĐ-CP Urban Greenery Management, issued on June 11, 2010.
4. TCVN 9257/2012: Planning green trees for public use in urban areas - Design standards.

7. Course outline

Week	Content	Course expected learning outcomes
1	*Chapter 1:* **Techniques for creating mountains and hills in the landscape**	
	A/ **Main contents***: (2 hours)* **1. Theories:** *(2 hours)* 1.1. The concept of urban greenery 1.2. Ways of grouping urban green trees **2. Practice:** *(0 hours)*	CELO 1,2,3,4.
	B/ **Self-study contents**: *(6 hours)* *Overview of how to group urban green trees*	
2	*Chapter 2:* **Principles of choosing green trees and factors affecting urban green trees**	
	A/ **Main contents***: (2 hours)* **1. Theories:** *(2 hours)* 2.1. Principle of selection 2.2. Factors affecting urban greenery **2. Practice:** *(0 hours)*	CELO 1,2,3,4.
	B/ **Self-study contents**: *(6 hours)* *Basic knowledge of outdoor requirements of urban greenery*	
3	*Chapter 3:* **Management and development of street trees**	
	A/ **Main contents***: (4,5 hours)* **1. Theories:** *(2 hours)* 3.1. Regulations on management of street trees 3.2. Planning for urban green tree management **2. Practice:** *(2.5 hours)* **-** Project exercise 1: Choose a project topic and write an outline	CELO1, 2,3,4,5.
	B/ **Self-study contents**: *(13,5 hours)* Methods of planning urban green tree management	
4	*Chapter 4:* **Care and maintenance of urban trees and park trees**	

	A/ **Main contents**: *(7 hours)* **1. Theories:** *(2 hours)* 4.1. Technical care and maintenance of street trees 4.2. Technical care and maintenance of park trees **2. Practice:** *(5 hours)* - Project exercise 2: Surveying the project and proposing the construction plan - Project exercise 3: Construct a landscape item and complete the as-built document.	CELO 1,2,3,4
	B/ **Self-study contents**: *(21 hours)* Techniques for care and maintenance of some commonly used urban green plants	
5	*Chapter 5:* **Urban tree pruning technique**	
	A **Main contents:** *(5 periods)* **1. Theories:** *(2 hours* 5.1. Principles of tree pruning 5.2. Urban tree pruning technique **2. Presentation :** *(3 hours)* Group project report 1-3	CELO 1,2,3,4
	B/ **Self-study contents**: *(15 hours)* Some specific urban tree pruning technical processes	
6	*Chapter 6:* **The technique of cutting down urban trees**	
	A/ **Main contents:** *(4 periods)* **1. Theories:** *(2 hours)* 6.1. Principles of urban tree trimming 6.2. Techniques to ensure safety during construction **2. Presentation :** *(2 hours)* Group project report 4-5	CELO 1,2,3,4
	B/ **Self-study contents**: *(12 hours)* Methods of removing landscape works	
7	*Final exam*	CELO 1,2