



1. MODULE NAME:
HORTICULTURAL SUSTAINABLE DESIGN OF OUTDOOR EVENT SPACES (5 ECTS)

2. MODULE OBJECTIVES:

The student/education candidate will be able to:

- use and understand selected content areas,
- understand the importance of infrastructure relevant to outdoor event spaces,
- understand the role of ornamental plants in designing outdoor event spaces,
- consider the impact of growth factors on the growth and development of ornamental plants,
- apply basic knowledge to use fundamental groups of ornamental plants according to their needs,
- design a simple plan for sustainable planting of outdoor spaces for events and plant ornamental plants according to the plan,
- apply basic knowledge of plant protection,
- apply basic knowledge of designing primary and auxiliary materials for floral decorations,
- care for cut flowers and ornamental plants (herbaceous and woody ornamental plants),
- create simple bouquets and table decorations with a sustainable approach, including recycling and care for them,
- design sustainable freestanding decorations from natural materials and maintain them,
- use appropriate communication methods for problem-solving, work organization, and completing individual tasks,
- connect theoretical and practical knowledge,
- apply ICT technology in marketing,
- develop learning-to-learn skills,
- develop information literacy,
- understands and respects safety at work.

MODULES CONSIST OF THE FOLLOWING CONTENT:

1. CONTENT: Infrastructure of outdoor event spaces
2. CONTENT: Basic selection of ornamental plants
3. CONTENT: Use of ornamental plants
4. CONTENT: Preparation of floral materials
5. CONTENT: ICT technology and marketing



COMPETENCE	LEVEL OF COMPETENCE ACQUISITION		
	BASIC LEVEL	ROUTINE LEVEL	ADVANCE D LEVEL
Basic knowledge of infrastructural needs for outdoor event spaces	x		
Ornamental herbaceous plants		x	
Ornamental woody plants		x	
Planting design		X	
Flower decoration design		X	
Recycled materials - table decoration		X	
Freestanding constructions from natural materials		X	
Use of ICT technology and marketing in horticulture		X	

1. CONTENT: Infrastructure of outdoor event spaces

Competencies: Basic knowledge of infrastructural needs for outdoor event spaces (Arboretum Volčji Potok)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> is familiar with the basic landscape design of the space, is familiar with the basic infrastructure essential for outdoor event spaces (parking, water, electricity, toilets, shaded and sunny areas for activities, food service areas, covered areas in case of rain, paved/sandy areas, lawn, photo corners, first aid kit, etc.), takes into account the needs of people with reduced mobility, considers the importance of different plant groups in designing event spaces, is aware of the limitations in choosing plants for event spaces, can create a simple conceptual plan for designing an outdoor event space, considering essential infrastructure elements. 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> recognizes the space and sketches the layout of activities and equipment in the area, reads the plan made by a landscape architect, decides on the choice of plants based on potential hazards to people (poisonous, prickly bees and wasps that attract plants...), given the potential environmental hazards and climate challenges, draws a simple conceptual plan for an outdoor event space, considering essential infrastructure elements, follows safety protocols at work.



2. CONTENT: Basic selection of ornamental plants

Competencies: Ornamental herbaceous plants (Floweracademy.SI)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • distinguishes and describes various methods of plant propagation, • identifies the influence of growth factors on the growth and development of plants, • knows basic ornamental herbaceous plants and their growth requirements, • can make the correct selection of ornamental herbaceous plants based on growth factors and the design needs of outdoor event spaces, • is familiar with hazardous plants - poisonous or thorny - and avoids them in plant selection, • knows highly nectar-producing plants and avoids them due to the potential risk of visitor allergies to bee and insect stings, • understands the importance of plant nutrients for growth and development and knows how to use them, • can plant ornamental flowerbeds and containers, • can propagate herbaceous plants, • performs proper techniques for the comprehensive care of herbaceous plants, • can sow or lay turfgrass and provide subsequent care, 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • implements various methods of plant propagation, • considers growth and climatic factors when selecting ornamental herbaceous plants (outdoor herbaceous plants), • selects appropriate ornamental herbaceous plants according to design needs (outdoor herbaceous plants), • performs the planting of an ornamental flowerbed, • knows how to care for ornamental herbaceous plants, • carries out grass seeding and turf laying on the training ground, • identifies the basic pests and diseases of ornamental plants and applies appropriate control measures, • selects the appropriate method of plant protection, • follows safety protocols at work.



<ul style="list-style-type: none"> • knows the basic pests and diseases of ornamental plants, • describes plant protection methods and knows how to apply them, • distinguishes plant protection products based on their purpose and function, • knows the toxicity labels of plant protection products and knows how to read usage instructions. 	
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Competencies: Ornamental woody plants (Arboretum Volčji Potok)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • knows basic ornamental woody plants, • understand the importance of abiotic factors for plant growth and development, • understands the importance of plant nutrients and mulch for plant health, growth and development, • knows how to plant a tree, • knows how to provide woody plants with mulch and prune them appropriately, • understand the importance of selection against plant diseases • knows basic pests and diseases of ornamental plants, • describes methods of plant protection and knows how to use them, • distinguishes plant protection products according to purpose and function, • knows the labels on the toxicity of plant protection products and knows how to read instructions for use. 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • knows how to find species and varieties of woody plants that are resistant to fungal diseases and better tolerate the increased heat and drought brought by climate-changed summers, • performs annual and seasonal pruning, fertilization, and mulching of woody plants, • plant a woody plant correctly, • installs protection against damage to the trunk with lawnmowers, a watering bag for the sapling and maintains a protective surface around the trunk of a young tree, • participates in the installation or sowing of a new lawn, • follows safety protocols at work.



3. CONTENT: Use of Ornamental Plants

Competencies: Garden Design (Arboretum Volčji Potok – Wooden Ornamental Plants, Floweracademy.SI – Herbaceous Ornamental Plants)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • knows the ornamental properties of woody and herbaceous ornamental plants, • can create a simple conceptual design for a flowerbed, considering plant properties and basic design principles, • can plant according to a plan, • knows plant protection methods and acts appropriately. 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • select the most suitable woody and herbaceous species and varieties for hedges, flowering borders, and shade trees, • draws a conceptual planting plan, • plants ornamental plants according to basic design principles, • follows safety procedures at work.

Competencies: Design of floral decorations (Floweracademy.SI, Stredna odborná škola Pruske)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • differentiates floral decorations by purpose and spatial placement, • knows the basic principles of design (colour, texture, structure, shape), • knows how to care for cut flowers, clean and prepare them for use, • knows basic techniques for designing floral decorations, • creates a simple bouquet using spiral and parallel techniques, • knows braiding techniques and can create a garland or wreath, • ensures safety at work. 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • creates a simple plan for a comprehensive approach to floral decoration design and placement, • prepares a portfolio for designing simple table decorations and bouquets, • knows seasonal cut flower production and uses them to create simple decorations, • creates spiral and parallel bouquets, • creates a simple table decoration using floral foam, • makes a garland, • weaves a wreath, • follow safety protocols at work.



4. CONTENT: Using different materials to create decorative structures

Competencies: Recycled materials - table decoration (Stredna odborná škola Pruske, Floweracademy.SI)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • knows the basic rules for designing table decorations, • knows the techniques for creating table decorations, • prepares recycled materials suitable for table decoration, • select appropriate working tools, • select and design suitable decorations considering environmental impact, • evaluate the possibilities of using recycled materials for table decorations, • knows suitable cut flowers, potted plants, and herbs for table decorations, • ensures safety at work. 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • compiles a list of plant and auxiliary materials for table decorations, • designs a simple table decoration using recycled materials, • uses various recycled materials, such as plastic, glass, wax, textile, metal, paper, and tetra pack, to create table decorations, • create a table decoration for an outdoor even, • follow safety protocols at work.

Competences: Freestanding structures made of natural materials
(Poljoprivredna škola sa domom učenika PK Beograd)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> • understand the function and requirements for creating freestanding natural decorations outdoors, • can select a design for freestanding decorations based on the natural environment, • knows the basic design rules for freestanding structures in terms of shapes and stability, • identifies and selects structure designs according to the type of event, • differentiates natural materials from other materials used for creating freestanding outdoor decorations, • prepares and processes natural materials using appropriate techniques, • differentiates construction and decoration techniques and applies them 	<p>student/ education candidate:</p> <ul style="list-style-type: none"> • creates a simple plan for a comprehensive approach to designing structures and their placement in space, • creates a portfolio for designing simple freestanding structures, • build a simple freestanding structure based on purpose and placement in space (terrace, park), • safely uses work tools and later maintains the structure, • can create structures from various natural materials according to spatial placement and event requirements, • follow safety protocols at work.



appropriately,
 ● safely uses tools, plant materials, and auxiliary materials,
 ● applies workplace safety measures and understands their importance,
 ● maintains structures to ensure they remain in good condition over time.

5. CONTENT: ICT Technology and Marketing

Competencies: Use of ICT Technology and Marketing in Horticulture

(Floweracademy.NL)

INFORMATION OBJECTIVES	FORMATIVE OBJECTIVES
<p>Student/ education candidate:</p> <ul style="list-style-type: none"> ● knows the differences between ICT technologies and can use them, ● knows the basic principles of marketing: think first, then act! ● can create a promotional plan for outdoor events, ● knows the difference between online and offline communication, ● becomes familiar with various online communication platforms, ● can design an advertisement and post it on social media, ● uses various social media platforms to promote outdoor events, ● understand the key aspects of online sales with websites and e-shops. 	<p>Student/ education candidate:</p> <ul style="list-style-type: none"> ● monitors ICT and marketing developments and where to find them, ● creates a list of social media platforms, ● develop a practical promotional plan for an outdoor event, ● writes promotional posts for social media for major outdoor events: ● including photos and text, ● using various social media, ● reviews various websites and online stores, ● participates in online meetings and webinars, ● follow safety protocols at work.



3. CONDITIONS FOR ENTRY AND COMPLETION OF THE MODULE

The module has no special conditions.

4. FORMS OF EDUCATIONAL WORK

- theory lessons,
- exercises
- demonstrations
- practical training (at school, in a company)
- project work
- seminar paper
- excursion.

5. METHODOLOGICAL – DIDACTIC RECOMMENDATIONS

The teacher is autonomous in determining the number of hours dedicated to treating key competencies and their sequence. Informative objectives include acquiring basic professional knowledge at all difficulty levels; when planning and implementing lessons, the teacher should achieve all objectives at the highest possible levels of knowledge.

Formative objectives include developing the student's motivational, learning, thinking, social skills, and professional competencies.

Lessons should be conducted using various methods (explanation, guided discussion, demonstration, practical work of students, method of using resources, etc.) and organizational forms (group work, pair work, individual work, etc.). Explanation and demonstration should be problem-based, and frontal work should alternate with group and personal work. Professional terms from the field of horticulture should be consistently used in lessons so that the student develops a professional identity. The teacher should use modern information and communication technology in lessons. An interdisciplinary approach should be ensured in teaching: when discussing content, teachers of professional modules should connect and coordinate in terms of time and content.

Criteria for credit evaluation of study programs according to ECTS

1 credit is 25 to 30 hours of student workload.

The module has 95 pedagogical hours. The student spends the remaining hours doing additional activities, preparing for the exam, or obtaining grades.