



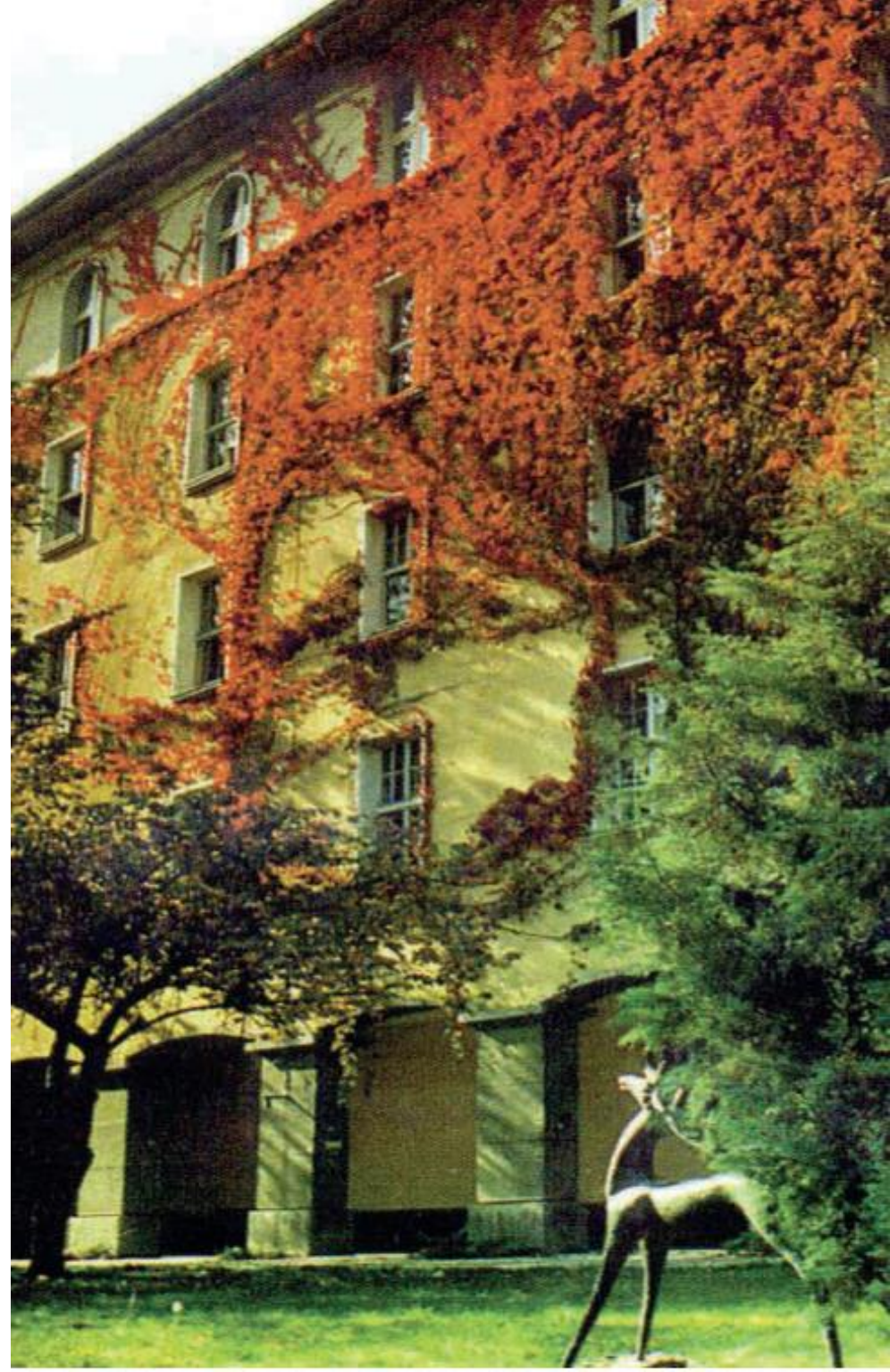
03/09 - 09/09/2023
(including travel days)

Summer School Urban Horticulture

Greener for better!

Learning, Teaching, Training Activities
(LTT) - C6

University of Forestry
Sofia, Bulgaria



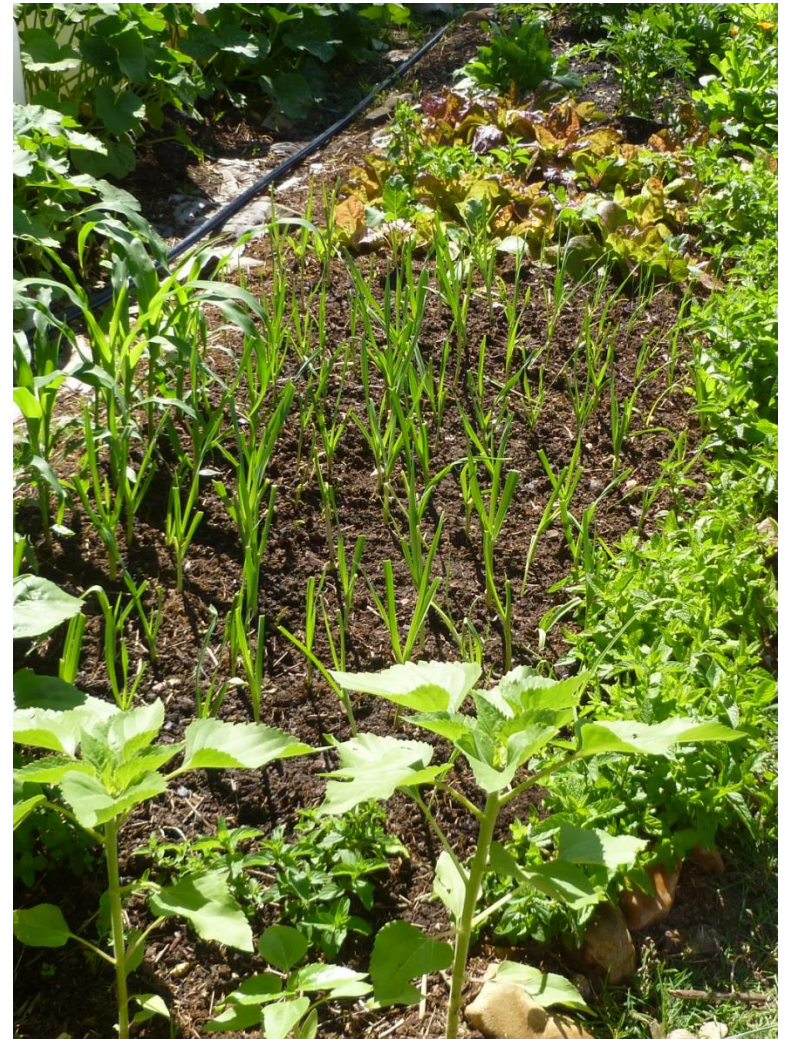
About the Summer School

The Summer School "Urban Horticulture" is a 5-day (+2 travel days) mobility for students at all levels (bachelor, master and PhD) and early career researchers, that will take place at University of Forestry (UF Sofia) between 3-9 September 2023.



Participants will acquire specific knowledge and skills on:

- *Types of urban gardening;*
- *Vegetables suitable for growing in an urban environment;*
- *Soil, substrates and irrigation in urban horticulture;*
- *How to create an urban garden;*
- *Pest management in an urban garden.*



The call for application is OPEN!

Deadline: 28 July 2023

Topics and objectives

The Summer school will enhance the knowledge and skills of students and early career teaching staff in Urban horticulture topic, as:

- creating urban garden,
- pest management in urban environment,
- home composting, etc.

All these will allow you to better understand benefits that brings the growing plants in an urban environment; increase your knowledge for integration of agriculture in urban areas and transformation of urban agriculture into part of the green system of cities; increase your chances on the social entrepreneurship labor market.

The registration form is available at:

<https://forms.gle/Ce1dEabcxmGjnXas9>





Is this event for you?

Why should you invest your time in our Summer School?



according to OECD (2016) young people today struggle in the labor market



unemployment is generally higher among young people than prime age adults



youth who work tend to have poorer-quality jobs (temporary contracts, lower wages) than older workers

Did you think to the top 10 benefits of summer school abroad?

- Increase self-confidence;
- Develops language skills;
- Satisfy the thirst for knowledge in a specific topic;
- Put emphasis on skills development;
- Stimulate curiosity, creativity and self-reliance;
- Increase the exams outcomes in horticulture;
- Upgrades the CV with extracurricular activity;
- Intensive and interactive learning environment;
- Source of inspiration;
- Make new friends and have fun.

About the Summer School

Summer School outcome?

The trainees will:

- become more confident on their horticulture related knowledge;
- improve their skills in creating urban garden;
- improve their skills in creating home compost;
- improve their skills in planning and building green urban infrastructure;
- increase their chances of starting a new business in field of horticulture and social entrepreneurship.



All over Europe, more and more institutions are suffering due to "growing mismatch" with labor market. Labor markets are rapidly changing, due to technological advancement, greening, and ageing workforce. Higher education institutions have the responsibility to reduce this gap and prepare the young generation and foster their employability and personal development.

Daily Schedule

8.30 - 9.00	Get together
9.00 - 10.30	Session 1
10.30 - 11.00	Coffee break
11.00 - 13.00	Session 2
13.00 - 14.00	Lunch
14.00 - 15.30	Session 3
15.30 - 16.00	Coffee break
16.00 - 18.00	Session 4



** in the days we visit special facilities related to urban horticulture, some changes might occur*



Day	Activity	Where
September 3th	Arrival in Sofia. Accommodation.	Sofia
September 4th	Lectures on types and benefits of urban gardens and good practices examples from Sofia. Plants suitable and not suitable for urban gardening. Environmental friendly pest management.	University of Forestry
September 5th	Lectures on structures, soil, substrates, irrigation and drainage in urban horticulture. Skills workshops “How to start a garden and home composting”	University of Forestry
September 6th	Practical training “Creating an urban garden”	University of Forestry
September 7th	Field visit and discussions with community gardeners	Region of Sofia
September 8th	Alternative phytosanitary methods for disease control. Safe use of home-made pesticides. Plant protection machinery for small areas. Skills workshop “An interactive exercise on conceptualizing sustainable urban agriculture practices”	University of Forestry
September 9th	Farewell. Going back home	Sofia

Program

Day 1 - Theoretical aspects of urban horticulture

Lecturers are specialists from:

Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary;

Directorate of Plant Protection Central Research Institute from Ankara, Turkey;

University of Forestry, Sofia, Bulgaria;

USAMV of Bucharest, Romania;

Root foundation, Bulgaria;

Institute of ornamental and medicinal plants, Agricultural Academy, Bulgaria.

Monday 4 September

8³⁰ - 9⁰⁰ Registration and Coffee

WELCOME

9⁰⁰ - 9¹⁰ **Rumen TOMOV**, Dean of Faculty of Agriculture, University of Forestry, Sofia
 9¹⁰ - 9³⁰ **Roxana CICEOI, Project Coordinator**, Researcher at Research center for study of food quality and agricultural products, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania
Enhancing practical skills of horticulture specialists to better address the demands of the European Green Deal

LECTURES

9³⁰ - 10⁰⁰ **Milena YORDANOVA**, University of Forestry, Sofia, Bulgaria
Types of urban gardens.

10⁰⁰ - 10³⁰ - **Roxana CICEOI**, Researcher at Research center for study of food quality and agricultural products, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania
Growing plants in an urban environment - what benefits do they bring?

10³⁰ - 11⁰⁰ - **Coffee break**

11⁰⁰ - 11³⁰ **Milena YORDANOVA**, University of Forestry, Sofia, Bulgaria
Vegetables Suitable for Growing in an Urban Environment

11³⁰ - 12⁰⁰ - **Bojidar EMANUILOV**, Root foundation, Bulgaria
Urban gardening. Good practices examples from Sofia.

12⁰⁰ - 12³⁰ **Ina GERDJIKOVA**, "Inka v gradinka" balcony garden project, Bulgaria
Balcony gardening: ideas and inspiration for growing greenery at small city spaces

12³⁰ - 13⁰⁰ Discussions and questions

13⁰⁰ - 14⁰⁰ **Lunch break**

14⁰⁰ - 14³⁰ - **Nadezda ZAPRYANOVA**, Institute of ornamental and medicinal plants, Agricultural Academy, Bulgaria
Herbs and spices Suitable for Growing in an Urban Environment

14³⁰ - 15⁰⁰ - **Mariela SHAHANOVA**, University of Forestry, Sofia, Bulgaria
Vertical and roof gardens as an element of urban gardening - design, construction options and species composition, features of maintenance

15⁰⁰ - 15³⁰ **Claudia FABIAN**, Assistant professor, Faculty of Horticulture, Landscape architecture department- USAMV of Bucharest, Romania
What to grow under the shade of urban trees?

15³⁰ - 16⁰⁰ **Coffee break**

16⁰⁰ - 16³⁰ **Svetlana ANISIMOVA**, University of Forestry, Sofia, Bulgaria
Which plants are not suitable for urban gardening?

16³⁰ - 17⁰⁰ - **Eszter TAKÁCS**, Hungarian University of Agriculture and Life Sciences, Hungary
Environmental risks of urban agriculture

17⁰⁰ - 17³⁰ - **Arzu AYDAR**, Directorate of Plant Protection Central Research Institute, Turkiye
Environmental Friendly Pest Management

17³⁰ - 18⁰⁰ - **Rumen TOMOV**, University of Forestry, Sofia, Bulgaria
Pest trapping and barriers





Program

Day 2 - Theoretical and practical aspects of urban horticulture



Tuesday 5 September

LECTURES

- 9⁰⁰ – 9³⁰ **Milena YORDANOVA**, University of Forestry, Sofia, Bulgaria
Structures for Urban Horticulture
- 9³⁰ – 10⁰⁰ **Vera PETROVA**, University of Forestry, Sofia, Bulgaria
Soil and substrates
- 10⁰⁰ – 10³⁰ **Vera PETROVA**, University of Forestry, Sofia, Bulgaria
Irrigation, drainage, water collection systems in urban horticulture
- 10³⁰ – 11⁰⁰ **Coffee break**
- 11⁰⁰ – 11³⁰ **Milena YORDANOVA**, University of Forestry, Sofia, Bulgaria
How to start a garden
- 11³⁰ – 12³⁰ **Milena YORDANOVA**, University of Forestry, Sofia, Bulgaria
*How to start a garden - **Skills workshop***
- 12³⁰ – 13⁰⁰ Discussions and questions
- 13⁰⁰ – 14⁰⁰ **Lunch break**
- 14⁰⁰ – 14³⁰ **Milena YORDANOVA**, University of Forestry, Sofia, Bulgaria
Mulching
- 14³⁰ – 15⁰⁰ **Alexsandrina KOSTADINOVA-SLAVEVA**, University of Forestry, Sofia, Bulgaria
Home composting
- 15⁰⁰ – 15³⁰ Discussions and questions
- 15³⁰ – 16⁰⁰ **Coffee break**
- 16⁰⁰ – 18⁰⁰ **Alexsandrina KOSTADINOVA-SLAVEVA**, University of Forestry, Sofia, Bulgaria
*Home composting - **Skills workshop***



Program

Day 3 - Practical aspects of urban horticulture



Day 4 - Practical aspects of urban horticulture

Wednesday, 6 September

FIELD TRIP

- 8⁴⁵ – 9⁰⁰ Gathering of participants.
9⁰⁰ – 13⁰⁰ *Visit and discussion with community gardeners to the Shared garden – German and Shared garden “Solidarity garden” – Levski*
- 13⁰⁰ – 14⁰⁰ Lunch break
- 14⁰⁰ – 18⁰⁰ *Visit of Garden of the Institute of ornamental and medicinal plants and Botanical garden – Sofia*

Thursday, 7 September

PRACTICAL TRAINING

- 8⁴⁵ – 9⁰⁰ Gathering of participants.
9⁰⁰ – 13⁰⁰ *Creating an urban garden – part 1 (Milena YORDANOVA, Vera PETROVA)*
- 13⁰⁰ – 14⁰⁰ Lunch break
14⁰⁰ – 18⁰⁰ *Creating an urban garden – part 2 (Milena YORDANOVA, Vera PETROVA)*



Day 5 – Friday, 8 September

Program

LECTURES

Day 5 - Theoretical aspects
of pest management

Urban agriculture -Skills
workshop

- 9⁰⁰ – 9³⁰** **Oana VENAT**, Researcher at Research center for study of food quality and agricultural products, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Romania
Alternative phytosanitary methods for controlling plant pathogens and diseases in urban horticulture
- 9³⁰ – 10⁰⁰** **Szandra KLÁTYIK**, Hungarian University of Agriculture and Life Sciences, Hungary
Are biologicals always safe? A view on home-made pesticides
- 10⁰⁰ – 10³⁰** **Yasemin SABAHOĞLU**, Directorate of Plant Protection Central Research Institute, Turkiye
Plant Protection Machinery for Small Areas
- 10³⁰ – 11⁰⁰** **Coffee break**
- 11⁰⁰ – 12³⁰** **Dona PICKARD**, Institute of Philosophy and Sociology, Bulgarian Academy of Sciences, Bulgaria
*Urban agriculture at the intersection of biology, social science, and urban planning: an interactive exercise on conceptualizing sustainable UA practices - **Skills workshop***
- 12³⁰ – 13⁰⁰** **Discussions of the 5 days training and brainstorming (Roxana CICEOI, Rumen TOMOV)**
- 13⁰⁰ – 13³⁰** **Certificates awarding. Closing of the training (Roxana TOMOV, Rumen CICEOI)**



Available budget

Only 16 places available

The budget covers 7 days, of which:

- 5 days are for training (4-8 September)
- 2 days for the travel (3 and 9 September)

Travel allowance - 180 EUR/person (lump sum)

Individual support - 58 EUR/day (lump sum), meaning 406.00 EUR/person (for accommodation, internal transfers and meals).

Reimbursement rules

Trainees will receive their travel allowance and individual support in the first day of the training. Payment of the lump sum for travel is based on the original travel ticket (flight, train, bus or fuel receipt). Presenting an online reservation is a plus. The return ticket will be sent scanned, by email, to the University Liaison Officer (ULO - Rumen Tomov-Bulgaria, Mörtl Mária- Hungary, Oana Venat-Romania, Arzu Aydar-Turkey) and the original will be kept by the ULO. Payment of living allowance lump sum is based on the presence list and the certificate of attendance.

Accommodation

- There are several hotels near University of Forestry with different rooms and prices.
- Trainees can request the desired rooms from the following hotels to the UF team:

Hotel 4 Zona <http://4zona.bg/en/ourrooms/>

Hotel Geppy <https://hotel-geppy.com/our-rooms/>

- 2 rooms (for two persons) – 1 big bed
- 3 rooms (for two persons) – 2 separate beds
- 4 rooms (for two persons) – 1 big bed + sofa
- 3 studios – 115 leva

Vitosha Park Hotel <https://www.vitoshaparkhotel.com/>

- UF team will be there to assist you.
- Trainees can make their own reservation in other hotels in Sofia.





About University of Forestry (UF)

UF is an educational and scientific center for management and sustainable use of biological resources in:

- forestry,
- agriculture,
- urban areas.

We take care about:

- plant and animal health,
- environment.





About Faculty of Agronomy

The Faculty of Agronomy is currently a time-tested and internationally recognized educational and scientific unit with more than 25 years of history. The faculty is accredited by the National Evaluation and Accreditation Agency to provide training in two Bachelor programs “Agriculture” and “Plant protection” and the following master programs: “Field crops production”, “Vegetable growing”, “Fruit growing”, “Regenerative agriculture”, “Plant Protection“, “Environmentally friendly crop pests management”, “Precision farming” and “Sustainable production of forage crops”.

Our mission is to train highly qualified professionals who are able to find sustainable solutions to existing and future problems in crop production, applying soil fertility and environmentally friendly practices. Our vision is that the educational process should offer:

- high quality educational content based on the latest scientific achievements;
- modern learning environment, provided with modern facilities, information resources and modern information technologies;
- a favorable environment for involving students in the implementation of scientific and applied projects, contributing to the development of their innovative thinking
- hands-on training of students in the most real-world environment contributing to their career development;
- a favorable environment for the mobility of teachers and students, contributing to their integration in the international educational and research area.

About Hort4EUGreen Project

Hort4EUGreen is a 36 months project aiming to train European higher education graduates and its teaching staff by enhancing their practical skills in key areas related to Europe Green Deal, e.g., nutritional quality of food, pesticide analysis, urban horticulture, biodiversity monitoring. The aim is to increase the young generations' employability and personal development and reduce the "growing mismatch" with labor market.

Projects outputs



Learning, Teaching, Training Activities

European Green Deal implications in horticulture learning, teaching and training activities
USAMV Bucharest

Contribution of the European Green Deal for development of horticulture in Bulgaria.

Short-term joint staff training events

1. Challenges of sustainable use of pesticides - Ankara
2. Present and future in pesticide residues analysis, Budapest
3. Current status and perspectives of urban horticulture, Sofia
4. Relation between nutritional quality of foods and pesticides, Bucharest

Intensive training

1. Intensive training on pesticide residues analysis – Budapest

Summer schools

1. "Harmonizing South Eastern European countries skills for "a pesticides-free environment" Summer School – USAMV Bucharest
2. Urban Horticulture – UF Sofia



We target higher employability chance for the master and doctoral students, by including new "requested by the market" topics in the already recognized master programs and by enhancing students' skills and knowledge in respect to the new Green EU policy!



Partners

Partners Romania



Universitatea de Științe Agronomice și Medicină Veterinară din București,
University of Agronomic Sciences and Veterinary Medicine of Bucharest



Bulgaria
Lesotekhnicheski Universitet,
University of Forestry, Sofia



Hungary
Magyar Agrár- és Élettudományi Egyetem,
Hungarian University of Agricultural and Life Sciences



Turkey
Zirai Mucadele Merkez Arastirma Enstitusu Mudurlugu,
Directorate of Plant Protection Central Research Institute, Ankara



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