



BLENDED INTENSIVE PROGRAMME

GENERAL INFORMATION

BIP Title	Climate Change Impact on Global Horticulture – Trends and Challenges
BIP Code	
Coordinating Institution - Faculty	University of Agronomic Sciences and Veterinary Medicine of Bucharest (USAMVB) – Faculty of Horticulture
Dates for physical mobility	May 4-9, 2026
Proposed period for virtual component	April 28-30, 2026 May 18, 2026
Priorities addressed	<input type="checkbox"/> Inclusion and diversity <input type="checkbox"/> Digital transformation <input checked="" type="checkbox"/> Environment and fight against climate change <input type="checkbox"/> Participation in democratic life <input checked="" type="checkbox"/> Others
ECTS	3
Objectives and short description / abstract	The BIP titled “Climate Change Impact on Global Horticulture – Trends and Challenges” employs a Project-Based Learning methodology to simultaneously enhance student teamwork and communication skills and provide foundational knowledge in horticulture and landscaping to address global climate change challenges. The program’s core technical objectives include fostering a comprehensive understanding of climate change effects on plant systems, facilitating the accurate identification of regional impacts, and enabling the critical examination of current and emerging trends within the

	<p>horticultural sector. Furthermore, the curriculum emphasizes practical application through the exploration of relevant field and laboratory methods necessary for the assessment and implementation of solutions in both horticultural technologies and landscape design.</p>
<p>Methods (including final evaluation method) and results / learning outcomes</p>	<p>Final evaluation method: project</p> <p>Learning outcomes - At the end of the Blended Intensive Programme, the students will be able to:</p> <ol style="list-style-type: none"> 1. understand comprehensively how climate change affects global horticulture, including shifts in growing seasons, changes in pest and disease patterns, and variations in crop yields and quality. 2. analyze the specific effects of climate change on horticulture across diverse regions, highlighting both common and unique challenges faced by horticulturalists worldwide. 3. explore and discuss major trends in horticulture influenced by climate change, such as adopting climate-resilient crops, shifting crop locations, and utilizing innovations in horticultural practices. 4. present recent research findings and innovative practices aimed at mitigating negative climate change effects, focusing on advancements in plant breeding, biotechnology, and sustainable techniques. 5. encourage the adoption of sustainable horticultural methods, including water conservation, soil health management, and integrated pest management, to actively mitigate climate change impacts. 6. examine the role of supportive government policies, international cooperation, and dedicated funding for research and development in fostering climate-resilient horticulture. 7. provide a platform for effective networking and collaboration among scientists, researchers, industry professionals, and policymakers to encourage partnerships and joint projects.

	8. analyze future climate change impacts on horticulture and discuss strategic planning and adaptation strategies to ensure the long-term resilience and sustainability of horticultural practices.
Partner institutions	1. Aeres University of Applied Sciences 2. 3.
Total number of learning hours	75 hours, divided as follows: 16 hours of virtual component 42 hours of physical mobility (minimum 5 days) 15 individual study hours
Scientific coordinator	Assoc. prof. dr. Adrian PETICILĂ (adrian.peticila@horticultura-bucuresti.ro)
Administrative coordinator	Irina TOMAȘU (incoming.erasmus@usamv.ro)
Teaching team (professors from partner universities are welcomed to teach)	1. Prof. Dr. Florin Stănică 2. Prof. Dr. Adrian Asănică 3. Assoc. Prof. Dr. Adrian Peticilă 4. Assoc. Prof. Dr. Vera Dobrescu 5. Prof. Dr. Mihaela Georgescu 6. Prof. Dr. Liliana Bădulescu 7. Lecturer Dr. Cosmin Mihai 8. Dr. Ana Butcaru 9. Teaching Assist. Florentina Vinica Barbu, PhD Student
Number of learners	15–20
Target group / learner profile (study level, specialisation etc)	Bachelor's or Master's degree in Horticulture or a closely related field
Selection criteria (English language level, prerequisites)	English B1/B2 Knowledgeable in basic horticulture concepts

TEACHING CONTENT

	Daily program	Content - lectures, workshops, educational trips.
Virtual component	April 28, 2026	<ul style="list-style-type: none"> Welcome speech, short presentation of the BIP, presentation of the universities/faculties

		<ul style="list-style-type: none"> • Presentation of the blended intensive program (BIP) • Teachers' presentation • Students' introductory presentations.
	April 29, 2026	<ul style="list-style-type: none"> • <i>Lecture:</i> History of the Horticulture Sciences • <i>Lecture:</i> Climate change present challenges
	April 30, 2026	<ul style="list-style-type: none"> • <i>Lecture:</i> Climate measurements history and modern practices • <i>Lecture:</i> Spontaneous Plants Species to Local Community Benefits • Conclusions from the first virtual session.
	May 18, 2026	<ul style="list-style-type: none"> • Students' final projects presentations; • Final conclusions of the BIP.
Physical mobility	May 4, 2026	<ul style="list-style-type: none"> • Welcome Meeting • Guided Tour of the Campus and Greenhouse visit • Lunch break (free time 1.5 hours) • Lecture: New Fruit Species Resilient to Climate Change • Visit of the University Orchard to identify old & new species • Introduction to Romanian Enology & Romanian Traditional Dinner
	May 5, 2026	<ul style="list-style-type: none"> • Field trip to Bran • Lunch • Horticultural aspects of the Rucar-Bran region • Cultural visit - Dracula Castle • Accommodation
	May 6, 2026	<ul style="list-style-type: none"> • Breakfast • Field trip to Sinaia, Peleş Castle • Peleş Domain Practical Workshop: Royal gardens species identification, case studies in work group • Peleş Castle visit • Lunch (free time 1.5 hours) • Departure to Bucharest
	May 7, 2026	<ul style="list-style-type: none"> • Practical Session: Micropropagation Techniques • Lunch break (free time 1.5 hours)

		<ul style="list-style-type: none"> • Lecture: Digitalization and automatization in horticulture • Ikebana workshop
	May 8, 2026	<ul style="list-style-type: none"> • Lecture: How climate change tends to influence fruit and berry production in the Latvia region • Lecture: Climate measurements history and modern practices • Lunch break (free time 1.5 hours) • Practical Session: Evaluation of the organoleptic and physiological qualities of seasonal fruits • Closing meeting
	May 9, 2026	<ul style="list-style-type: none"> • Workshop: Addressing Climate Challenges (Part 1) – Foresight approach to identify and strategize on addressing key challenges with impact on Horticulture (Team work and project themes) • Workshop: Addressing Climate Challenges (Part 2) – Continuation of team work and project themes • Lunch break (free time 1.5 hours) • Bucharest City Tour - Biodiversity workshop and Botanical Garden