



Student Exchange Programme

on

Exploring Urban Green Dynamics: Spatial, Floral and Ecological Perspectives

20th May - 2nd June, 2024

Under URGENT Project (619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP)



Introduction:

In an era where urbanization is rapidly reshaping our landscapes, understanding the dynamics of green spaces within urban environments has become increasingly crucial. Urban green spaces not only provide aesthetic beauty but also play a pivotal role in ecological balance, human well-being, and climate resilience. Recognizing the multifaceted nature of urban green dynamics, our student exchange program seeks to delve into the spatial, floral, and ecological dimensions of these vital areas.

Objective:

The primary objective of our student exchange program, titled "Exploring Urban Green Dynamics: Spatial, Floral, and Ecological Perspectives," is to equip participants with a holistic understanding of urban green spaces. Through a combination of lectures, practicals, and field trips, we aim to achieve the following objectives:

1. To familiarize participants with the fundamental concepts of remote sensing, GIS, and drone technology, and their applications in analyzing urban green spaces.
2. To explore the ecosystem services provided by urban green spaces and understand their impact on human well-being.
3. To examine the role of microwave, radar systems, and drone technology in green canopy management and green space monitoring.
4. To investigate soil health management practices and their importance in sustaining urban green spaces.
5. To assess the floristic diversity, biological spectrum, and conservation priorities of plant communities in urban and peri-urban areas, particularly focusing on the unique landscape of Kashmir Himalayas.
6. To analyze the impact of climate change on urban green spaces, with a specific focus on vulnerability and adaptation strategies in the Jammu and Kashmir region.
7. To conduct field trips for practical demonstrations and assessments, including soil profile demonstrations and anthropogenic pressure assessments in selected areas like Gulmarg.

Outcome:

By the end of the 14-day program, participants will:

1. Gain a comprehensive understanding of the spatial, floral, and ecological aspects of urban green dynamics.
2. Acquire practical skills in utilizing remote sensing, GIS, drone technology, and radar systems for green space analysis and management.
3. Appreciate the significance of urban green spaces in providing ecosystem services and promoting human well-being.
4. Develop insights into soil health management practices and their role in sustaining urban green infrastructure.
5. Identify key conservation priorities for plant communities in urban and peri-urban areas, especially in ecologically sensitive regions like Kashmir Himalayas.
6. Understand the implications of climate change on urban green spaces and explore potential adaptation strategies.
7. Gain hands-on experience through field trips and demonstrations, enhancing their practical knowledge and observational skills in assessing urban green dynamics.



**SHER-E-KASHMIR UNIVERSITY OF
AGRICULTURAL SCIENCES AND TECHNOLOGY OF KASHMIR**

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Co-funded by the
Erasmus+ Programme
of the European Union



20th May-2nd June, 2024

Program

Day - 1

20/05/2024 | Monday

Time	Program details
10:00	Registration/Inauguration
Technical Session	
11:30	Lecture-Fundamentals of remote sensing and GIS – Prof. A. A. Wani
12:45	Lunch Break
14:00	Field visit of Faculty of Forestry
15:45	
17:00	End of Day - 1

Day - 2

21/05/2024 | Tuesday

Time	Program details
Technical Session	
10:00	Ecosystem services and well being dimensions of urban green spaces
11:30	Prof. M.A.Islam
12:45	Lunch Break
14:00	Field visit of Faculty of Forestry
15:45	
17:00	End of Day - 2

Day - 3
22/05/2024 | Wednesday

Time	Program details
Field trip	
10:00	Urban belt of Srinagar for recording urban temperatures
11:30	
12:45	Lunch Break
14:00	Urban belt of Srinagar for recording urban temperatures
15:45	
17:00	End of Day - 3

Day - 4
23/05/2024 | Thursday

Time	Program details
Technical Session	
10:00	Fundamentals of Microwave and Radar system and its application in Green Canopy Management Prof. A. A. Wani
11:30	
12:45	Lunch Break
14:00	Group discussion and selection of group project
15:45	
17:00	End of Day - 4

Day - 5
24/05/2024 | Friday

Time	Program details
Technical Session	
10:00	Lecture- Soil Health Management Dr. K. A. Sofi
11:30	Field demonstration of soil profile Dr. K. A. Sofi
13:00	Lunch Break
14:00	Field trip (Visit to Sagg Eco village)
15:45	
17:00	End of Day - 5

Day - 6
25/05/2024 | Saturday

Time	Program details
Technical Session	
10:00	Independent Group Work
11:30	
13:00	Lunch Break
14:00	Independent Group Work
15:45	
17:00	End of Day - 6

Day - 7
26/05/2024 | Sunday

Time	Program details
Technical Session	
10:00	Independent Group Work
11:30	
13:00	Lunch Break
14:00	Independent Group Work
15:45	
17:00	End of Day - 7

Day - 8
27/05/2024 | Monday

Time	Program details
Technical Session	
10:00	Lecture-Drone technology: Role in green space management- Prof. A. A. Wani
11:30	
13:00	Lunch Break
14:00	Drone demonstration at FOF by Prof. A.A.Wani
15:45	
17:00	End of Day - 8

Day - 9
28/05/2024 | Tuesday

Time	Program details
Technical Session	
10:00	Floristic diversity, biological spectrum and conservation prioritization of plant communities in urban and peri-urban areas of Kashmir Himalayas- Dr. A. A.Gatoo
11:30	
13:00	Lunch Break
14:00	Lecture- Climate change impact, vulnerability in Jammu and Kashmir Dr. S. Murtaza
15:45	
17:00	End of Day - 9

Day - 10
29/05/2024 | Wednesday

Time	Program details
Field trip	
10:00	Gulmarg: Data collection and assessment of anthropogenic pressure
11:30	
12:45	
14:00	
15:45	
17:00	End of Day – 10

Day - 11
30/05/2024 | Thursday

Time	Program details
Technical Session	
10:00	Independent Group Work
11:30	
13:00	Lunch Break
14:00	Independent Group Work
15:45	
17:00	End of Day - 9

Day - 12
31/05/2024 | Friday

Time	Program details
Technical Session	
10:00	Presentation of Group Findings
11:30	
13:00	Lunch Break
14:00	Presentation of Group Findings
15:45	
17:00	End of Day - 12

Day - 13
01/06/2024 | Saturday

Time	Program details
10:00	Group and individual consultations for the students from PU
11:30	Group and individual consultations for the students from PU
13:00	Lunch Break
14:00	Group and individual consultations for the students from PU
15:45	Group and individual consultations for the students from PU
17:00	End of Day - 13

Day - 14
02/06/2024 | Sunday

Time	Program details
10:00	Group and individual consultations for the students from PU
11:30	Group and individual consultations for the students from PU
13:00	Lunch Break
14:00	Group and individual consultations for the students from PU
15:45	Group and individual consultations for the students from PU
17:00	End of Day - 14

*11:00 – 11:30 and 03:15- 03:45 (Tea Break)