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Equipment Usage Report

URGENT Project

“URBAN RESILIENCE AND ADAPTATION FOR INDIA AND MONGOLIA”

Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K)

(P-14)

Equipment Name:
Plant Canopy Analyzer
Uses:
For measuring photosynthetic efficiency of urban vegetation through measurement of Leaf Area Index.
Usage by Students and Faculty
Students of BSc Forestry/MSc Forestry/PhD Forestry were initially demonstrated regarding usage of the equipment for measurement of Leaf Area Index (LAI) in the urban vegetation. The students later on tried hands on the equipment in the field and could take the measurement of leaf area index to enable them to use the equipment for their study and research.
No of students to use the equipment
Undergraduate: 40 Masters: 06 Researchers/Doctoral Students: 04 Teachers: 05
Action Photographs



Equipment Name:

Designjet Plotter/Printer

Uses:

For developing large scale A0 size prints for maps, vegetation pattern and ground sample locations for display in seminars and workshops. Flexibility of printing through Ethernet; USB; WiFi

Usage by Students and Faculty

Students of BSc Forestry/MSc Forestry/PhD and faculty members of the Division of Natural Resource Management, Faculty of Forestry were demonstrated the print of A0 size map prints. The students later were able print big size land use land cover maps for understanding and explanation of vegetation pattern to a group of students.

No of students to use the equipment

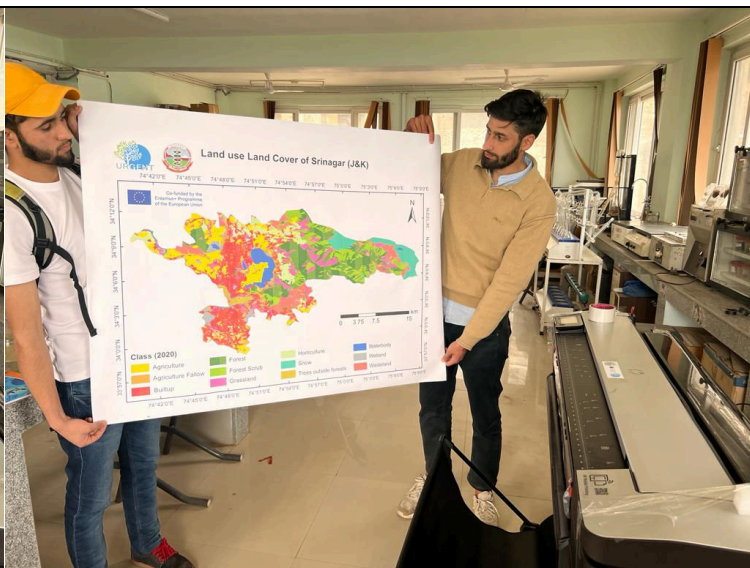
Undergraduate: 40

Masters: 18

Researchers/Doctoral Students: 12

Teachers: 25

Action Photographs



Equipment name: Laser Tree Calipers

Uses:

Improved tree callipers over the traditional ones having an advantage of measuring upper stem diameter through laser technology

Usage by Students and Faculty

Students of BSc Forestry/MSc Forestry/PhD and faculty members of the Division of Natural Resource Management, Faculty of Forestry were demonstrated the print of A0 size map prints. The students later were able print big size land use land cover maps for understanding and explanation of vegetation pattern to a group of students.

No of students to use the equipment

Undergraduate: 40

Masters: 18

Researchers/Doctoral Students: 12

Teachers: 25

Action photos



Equipment name:

Drone with accessories

Target Uses:

Resource assessment and monitoring of vegetation in urban areas and forest lands. To get the high resolution images of congested city condition for green infrastructure planning. Practical demonstration to students supplementing the modified curricula.

Usage by Students and Faculty

Students of BSc Forestry/MSc Forestry/PhD were demonstrated the use of drone for vegetation monitoring. They were briefed about the use of remote with cell phone interface and real time monitoring of filmed areas. Taking still photos and videos.

No of students to use the equipment

Undergraduate: 40

Masters: 18

Researchers/Doctoral Students: 12

Teachers: 25

Action photos



Equipment name:

DSLR camera

Target Uses:

4K UHD Video Recording at 30 fp for video lectures and other demonstration activities during seminar and workshops. High quality still photographs in 20.9MP DX-Format.

Usage by Students and Faculty

Students of BSc Forestry/MSc Forestry/PhD and faculty members could use the camera for activities related to the project. High quality photos of vegetation in the urban areas is a possibility with this equipment. 4k UHD video recording of video lectures is now possible with this equipment.

No of students to use the equipment

Undergraduate: 40

Masters: 18

Researchers/Doctoral Students: 12

Teachers: 25

Action photos



Equipment name:

GPS Device

Target Uses:

For positioning and ground validation of maps. Navigation and Inventory of urban forest.

Usage by Students and Faculty

Students of BSc Forestry/MSc Forestry/PhD and faculty members could use the GPS device for activities related to the project. The students could use GPS, GLONASS and IRNSS besides other global positioning services using this device. The equipment was used for navigation through forests and ground trothing of maps.

No of students to use the equipment

Undergraduate: 40

Masters: 18

Researchers/Doctoral Students: 12

Teachers: 25

Action photos



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Equipment name:

All in one (High Configuration Computer)

Target Uses:

For data processing, processing of project data, reporting, presentation etc.

Usage by Students and Faculty

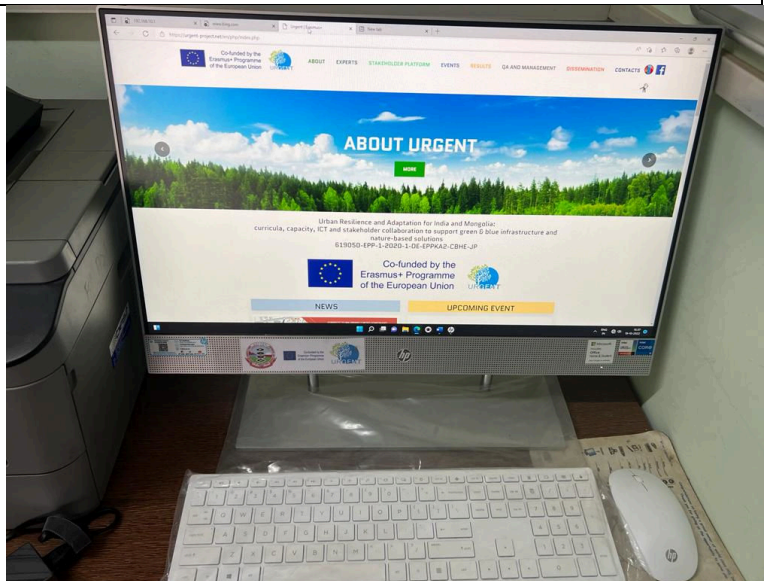
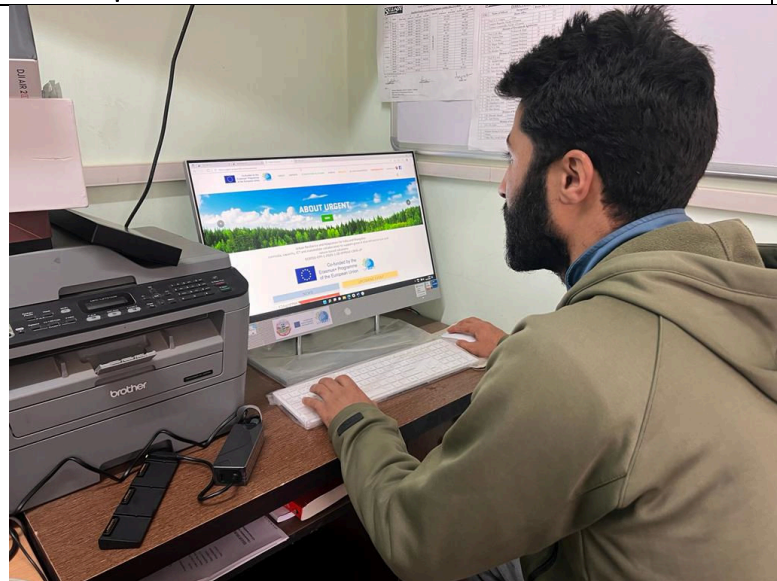
Concerned faculty members and students use the equipment for all the project related activities.

No of students to use the equipment

Researchers/Doctoral Students: 06

Teachers: 05

Action photos





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Equipment name:

Laptop

Target Uses:

For data processing, processing of project data, reporting, presentation with mobility etc.

Usage by Students and Faculty

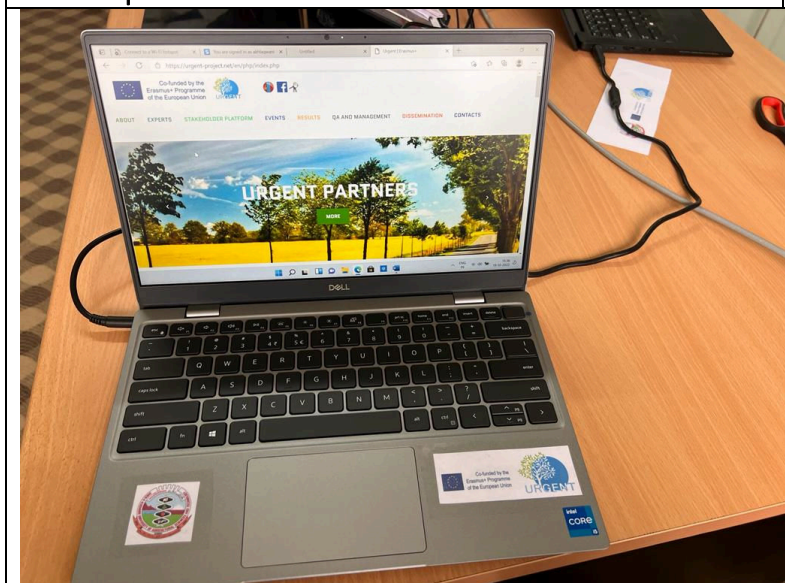
Concerned faculty members and students use the equipment for all the project related activities.

No of students to use the equipment

Researchers/Doctoral Students: 06

Teachers: 05

Action photos



Sd/-

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