



SDG15: LIFE ON LAND

Supporting land ecosystems through education

To ensure sustainable utilization of land, COMSATS University Islamabad undertakes the teaching of programs on management of land and agriculture that cover both managements of land for agriculture through sole sciences environmental geology, soil and water conservation, natural resource management and on flora and fauna programs like fundamental of biology and land scape design. In addition, it also conducts management of land for agriculture and tourism. Likewise educational outreach program are offered to the community at no cost and free consultancy services on harvesting of vegetables. In this context the university conducted one day seminar on the importance of Water: The Life. Further to this, the horticulture section of the University is responsible for maintaining the plant biodiversity.



Seminar on Water: The Life

Two faculty members of the University (Dr. Hafiz Faiq and Dr. Ghulam Abbas) have won research projects from Higher Education Commission of Pakistan (HEC). Their project was to promote and utilization of local food produce (Kinnow). Furthermore, they also worked on sustainable growth potential of quinoa as alternative food crop for salt-affected soils in various agro-ecological zones of Punjab, Pakistan”.

The university is working in Gilgit Baltistan with local Communities on Medicinal Plants Utilization among Balti and Shina Communities in the Periphery of Deosai National Park, Pakistan.

The university under its Environmental Protection Society organized 'Clean Your Trash' with the help of Government Departments of District Abbottabad at Nathiagali and the university also organized Tree Plantation Campaign in Shimla

Hills, Abbottabad under Go Green initiatives of the University.



Clean your Trash at Nathiagali



Tree plantation Campaign at Shimla Hills



Tree plantation Campaign at Shimla Hills

The Cafeteria Committee of COMSATS University Islamabad enforces a policy that ensures all food supplied on campus are sustainably farmed food and the quality is maintained and regularly observed by the management of University.



Rector visited the Farmed Food House



Rector visited the Farmed Food House

The University works directly to maintain and extend existing ecosystems and preserve the biodiversity of plants and animals, especially those ecosystems that are under threat. Research is conducted on conservation of Endangered Bird Species by Mr. Muhammad Naeem Awan under its PhD Thesis titled “A Geospatial Assessment of Ecology and Conservation status of Western Tragopan (*Tragopan melanocephalus*, J.E. Gray 1829) in Western Himalaya, Pakistan”.

For promotion of tourism and education outreach for local and foreigners, the University has built its own Montgomery Museum.



Montgomery Museum



Montgomery Museum



Montgomery Museum



Montgomery Museum

Supporting land ecosystems through action

For conservation and restoration of Land, COMSATS University Islamabad offers programs on Soil and water conservation, natural resource management. University is also working on restoration of heavy metal and salt affected soils. The outcomes of this go a long way in developing sustainable use, conservation and restoration of land as well as terrestrial ecosystem, in the vicinity of the University,

The University especially focuses to maintain the local biodiversity during planning and development process and strictly follows the bylaws.

Plantation at the University is carried out with the standard procedures of sustainable landscape, environmental friendly, socially acceptable and economically viable. Only native and adopted species of plants have been planted, these plants species encourage local biodiversity and support local flora and fauna.

Bio Safety Committee of COMSATS University Islamabad maintains and ensures that water discharge, quality standards and guidelines are strictly followed by to protect the ecosystem, benefiting wildlife, and human health and welfare. The University has its own Water Filtration Plant for students, staff and faculty members.



Water Filtration Plant



Water Filtration Plant at COMSATS University Islamabad

Land sensitive waste disposal

To uphold water quality in order to protect ecosystems, wildlife, and human health and welfare, Dr. Muhammad Imran faculty member of the COMSATS University Islamabad under the research project worked on Sequestration of dyes from textile industry wastewater using nanoparticles loaded biosorbents.

Food and Services Committee of the University enforces the policy on plastic waste reduction,

which seeks to minimize the use of plastic packaging. Students, staff and faculty members are encouraged to use biodegradable or paper packaging. The University had organized a community service walk on the theme “Say No to Plastic”.

Inadequate disposal of medical waste, causing serious health issues e.g AIDS, Hepatitis and other fatal diseases. Handling such hazardous waste by incineration can destroy all pathogens and reduce

the toxicity of toxic compound at high temperature. One of the major pollutants from the incineration process is particulate matter which is responsible for carrying carcinogenic compounds and toxic heavy metals. To handle such pollutants, an incinerator was designed and manufactured by the scientist of the COMSATS University Islamabad. This incinerator along with pollution control device was installed at Azam Memorial Hospital at Havellian, Pakistan.



Say No to Plastic



Incinerator and pollution control device at Azam Memorial Hospital Havellian

