



SDG 15: Life on Land

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SDG 15 aims to "protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss. Healthy terrestrial ecosystems provide essential services such as carbon sequestration, water purification, and climate regulation, which are fundamental to the survival of all species. Protecting land-based biodiversity ensures the preservation of genetic resources necessary for developing new medicines and resilient agricultural crops. SDG 15 emphasizes that land degradation and biodiversity loss are not isolated environmental issues but are deeply linked to poverty, food insecurity, and increased risks of zoonotic diseases.

Khwaja Moinuddin Chishti Language University (KMCLU) integrates SDG 15 through a multi-dimensional approach involving curriculum, research collaborations, and on-campus activities. At Khwaja Moinuddin Chishti Language University, this goal is put into action through academic rigor and community engagement. By studying Pharmacognosy to conserve medicinal plants and Geography to understand the "Tiger Project" and ecosystem management, the university ensures that students are equipped to lead the charge in terrestrial preservation. Furthermore, active partnerships with organizations like Experiome Biotech and ISCOS allow for high-level research into soil health and the communication of environmental science to the broader public.

- 1. Academic Integration-** The university incorporates terrestrial conservation into its formal education programs:
 - **Biodiversity Studies:** The Geography syllabus includes core courses like "Environment, Disaster Management and Climate Change," which specifically covers biodiversity conservation and projects like the Tiger Project.
 - **Sustainable Resource Management:** The B. Pharm syllabus includes Pharmacognosy, where students learn about the conservation of medicinal plants and the sustainable use of natural plant resources.
 - **Ecosystem Education:** Courses like "Sustainable Development" use examples from different ecosystems to teach students about national environmental strategies.
- 2. Research and Innovation Partnerships-** KMCLU has signed various Memoranda of Understanding (MoUs) to foster technical expertise in land-based sciences:
 - **Biotechnology & Microbiology:** Partnerships with firms like Experiome Biotech facilitate workshops on molecular biology and microorganisms, which are essential for maintaining soil health and genetic diversity.
 - **Phytochemistry:** Collaboration with the Centre of BioMedical Research (CBMR) supports the study of plant-based compounds, promoting the sustainable use of medicinal flora.

- **Scientific Communication:** The MoU with the **Indian Science Communication Society** helps bridge the gap between environmental research and public awareness regarding terrestrial ecosystems.
3. **On-Campus Environmental Action-** The university translates theory into practice through direct environmental events:
- **Reforestation:** Regular **Plantation Drives**, such as the one organized by the Faculty of Legal Studies, help increase the university's green cover and support local biodiversity.
 - **Practical Exposure:** Students participate in educational tours to specialized institutes like **CIMAP** to learn about the conservation of aromatic and medicinal plants in terrestrial habitats.
 - **Microbial Awareness:** By celebrating **International Microorganism Day**, the university highlights the importance of soil-based life in preventing land degradation.
 - **Cleanliness Campaigns:** The "**Swachhata Hi Seva**" exhibitions promote land hygiene, which is vital for preventing soil pollution and maintaining healthy terrestrial ecosystems.