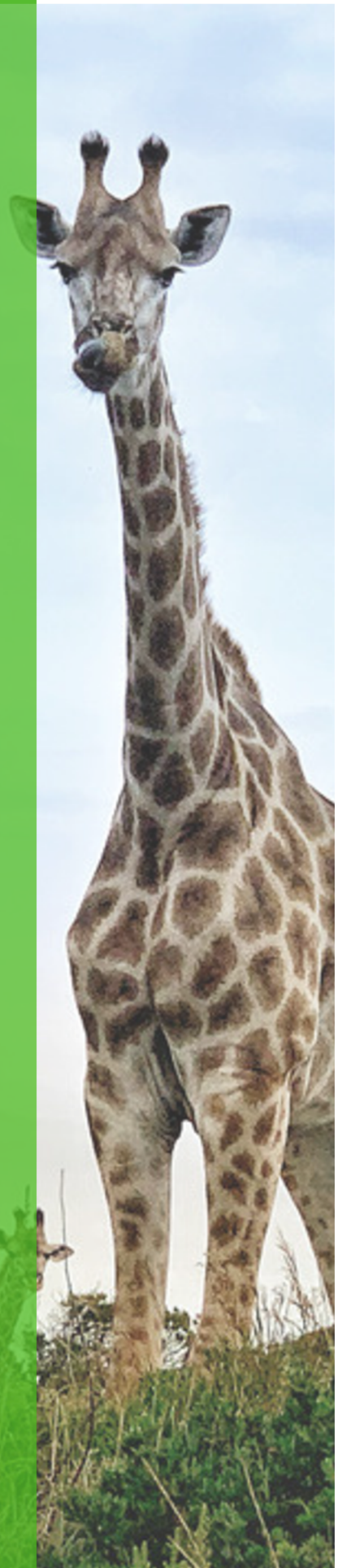




SDG 15

LIFE ON LAND



LIST OF ACTIVITIES

SR. NO.	ACTIVITY TITLE
1	Cancer Awareness
2	Exploration Of Biofilms In Secondary Infections
3	Prevention Of Signaling Among Disease Causing Bacteria
4	12th International Conference On Biological And Computational Sciences
5	MEDICINALLY IMPORTANT PLANTS AND THEIR THERAPEUTIC PRODUCTS
6	SDG's EXPO 2025: Life on Land
7	World Earth Day
8	Awareness Walk on the International Day for Biological Diversity
9	Eco-art Exhibition
10	Quick Quiz Buzz + My Green Card Pledge
11	World Environment Day





ACTIVITY 01: CANCER AWARENESS

Organized By:
The Department of Bioinformatics & Biosciences



The event commenced with a keynote speech by a renowned expert in veterinary oncology, highlighting the importance of cancer awareness in animals and its impact on biodiversity. A panel discussion followed, featuring experts from various fields, including veterinary medicine, conservation biology, and ecology. Students from the Department of Bioinformatics and Biosciences presented posters and exhibits showcasing their research on cancer in animals and its connection to SDG 15. Desk activity was conducted, focusing on the diagnosis, treatment, and prevention of cancer in animals, with a special emphasis on conservation and biodiversity. The event concluded with a certificate ceremony, honoring the participants and organizer.





ACTIVITY 02: EXPLORATION OF BIOFILMS IN SECONDARY INFECTIONS

Organized By:
The Department of Bioinformatics & Biosciences



The Department of Bioinformatics and Biosciences organized a seminar, under the supervision of Dr. Arshia Amin, with Ms. Haleema Sadia as the speaker. The seminar was attended by MS and PhD students, along with faculty members. Ms. Haleema Sadia emphasized the importance of preventing nosocomial (hospital-acquired) infections, which contribute to antibiotic resistance and increase the disease burden on the healthcare sector. The event aimed to equip students with knowledge, skills, and research strategies in this field while highlighting key gaps and future research opportunities. The session aligned with Sustainable Development Goal (SDG) 15: Life on Land, particularly in promoting ecosystem health, reducing the spread of diseases, and combating environmental damage. Sub-targets of SDG 15 addressed in the seminar included 15.5 (reducing habitat degradation and biodiversity loss), 15.8 (preventing invasive species that harm ecosystems), and 15.9 (integrating ecosystem values into health policies).



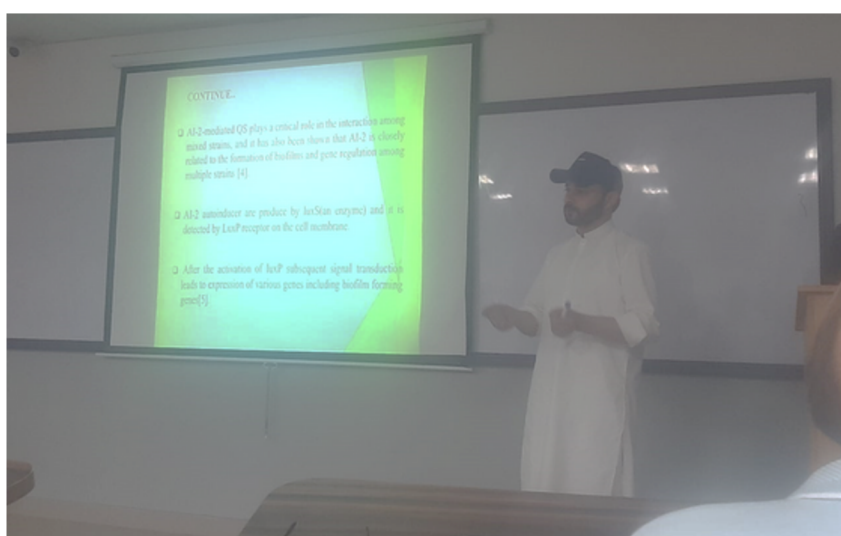


ACTIVITY 03:

PREVENTION OF SIGNALING AMONG DISEASE CAUSING BACTERIA

Organized By:

The Department of Bioinformatics & Biosciences



The Department of Bioinformatics and Biosciences organized a seminar under the supervision of Dr. Arshia Amin, with Mr. Muhammad Zameer as the speaker. The seminar was attended by MS and PhD students, along with faculty members. Mr. Muhammad Zameer discussed bacterial signaling, explaining how communication among disease-causing bacteria strengthens their adaptability in various habitats, including oceanic regions, deep water bodies, wastewater, and land. The event aimed to explore these communication mechanisms for better bacterial control while identifying research gaps and future opportunities. The session aligned with Sustainable Development Goals (SDG) 15: Life on Land Sub-targets of SDG 15 addressed in the seminar included: 15.5 (reducing biodiversity loss caused by harmful bacteria), 15.8 (preventing the spread of invasive bacterial species affecting ecosystems) and 15.9 (integrating bacterial control strategies into environmental and health policies).





ACTIVITY 04:

12TH INTERNATIONAL CONFERENCE ON BIOLOGICAL AND COMPUTATIONAL SCIENCES

Organized By:

The Department of Bioinformatics & Biosciences



The Department of Bioinformatics and Biosciences organized an international conference covering a wide range of topics, including Biological Data Science, Forensics and Diagnostics, AI/ML in Health & Life Sciences, Precision & Molecular Medicine, Epidemiology & Infectious Diseases, Bioinformatics & Computational Biology, Climate Change, Food & Nutrition, Synthetic Biology, Smart Agriculture, Bio-entrepreneurship, and Biomedical Engineering. The event was attended by more than 11 institutions and featured 40 oral presentations and 33 poster presentations. The conference provided a platform for researchers to exchange knowledge, discuss advancements, and address challenges in health, agriculture, and environmental sustainability. The discussions aligned with SDG 15: Life on Land, its sub-targets: 15.1 (Ensuring sustainable use of terrestrial ecosystems), 15.5 (Reducing biodiversity loss through precision agriculture and synthetic biology) and 15.9 (Integrating biodiversity conservation into scientific research and policy frameworks) emphasizing the role of science and technology in promoting ecological balance, sustainable food production, and biodiversity conservation. The conference highlighted the interdisciplinary role of modern sciences in addressing global challenges.



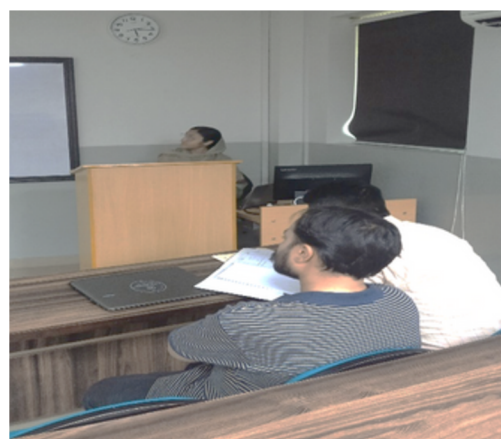


ACTIVITY 05:

MEDICINALLY IMPORTANT PLANTS AND THEIR THERAPEUTIC PRODUCTS

Organized By:

The Department of Bioinformatics & Biosciences



The Department of Bioinformatics and Biosciences organized two seminars on "Medicinally Important Plants and Their Therapeutic Values" under the supervision of Dr. Rizwan ur Rehman and Dr. Erum Dilshad, with Miss Maliha Fatima and Miss Rukhsana Tabassum as speakers. The seminars were attended by MS and PhD students, along with faculty members. The speakers highlighted the importance of medicinal plants found in local habitats and their therapeutic potential. The event emphasized the role of these plants in healthcare, biodiversity conservation, and sustainable resource utilization. The discussion aligned with Sustainable Development Goals SDG 14: Life Below Water, as plant-derived compounds also influence terrestrial and aquatic ecosystem Sub-targets of SDG 14 covered in the discussion were: 14.1 (reducing pollution affecting marine biodiversity, including plant-derived waste), 14.2 (protecting marine and coastal ecosystems that house medicinally important aquatic plants) and 14.5 (conserving biodiversity in coastal and marine areas, ensuring the sustainability of medicinal plants in these habitats).





ACTIVITY 06: SDG'S EXPO 2025: LIFE ON LAND

Organized By:
The Department of Bioinformatics & Biosciences



The Directorate of Sustainability and Environment (DSE) organized an expo regarding all the SDGs. As an ambassador for SDG 15: Life on Land, Ms. Salika Fatima, emphasized the importance of protecting biodiversity, restoring degraded lands, and promoting sustainable forest management. The event focused on targets 15.1-15.9 and 15.a-15.c, including conserving ecosystems, combating desertification, and promoting fair sharing of genetic resources. As an ambassador, she pledged to reduce my carbon footprint, support conservation efforts, and promote sustainable practices. At the conclusion of the expo, all ambassadors were recognized for their hard work, and they were awarded certificates in acknowledgment of their dedication and contributions to spreading awareness about the SDGs. This recognition was a proud moment for all of us, as it symbolized the collective effort put into making the expo a success.





ACTIVITY 07: WORLD EARTH DAY

Organized By:
The Department of Bioinformatics & Biosciences



An Earth Day event was held on April 18th from 9:00 AM to 12:00 PM at the F Block Corridor, organized by the Department of Sustainability and Environment (DSE) in collaboration with the Genic Society. The event focused on Sustainable Development Goal 15 (Life on Land), specifically targets 15.1 (Conservation and sustainable use of terrestrial ecosystems) and 15.5 (Protection and prevention of extinction of threatened species). The event aimed to raise awareness about protecting the planet's ecosystems and biodiversity. Through poster presentations, interactive sessions, and discussions, participants learned about the impact of human activities on the environment and explored sustainable practices and eco-friendly living. The event successfully promoted awareness and inspired action towards environmental conservation, encouraging community engagement in initiatives that preserve natural resources.





ACTIVITY 08:

AWARENESS WALK ON THE INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY

Organized By:
The Department of Bioinformatics & Biosciences



The Department of Sustainability and Environment, in collaboration with the Department of Bioinformatics and Bioscience, GENIX Society, organized an Awareness Walk on the International Day for Biological Diversity, May 22, 2025, at 2 pm at the K Block Fountain. The event aimed to promote biodiversity conservation and align with Sustainable Development Goal 15: Life on Land, which focuses on protecting, restoring, and promoting sustainable use of terrestrial ecosystems. Through the walk, participants raised awareness about the importance of biodiversity and pledged to take proactive steps toward conservation, demonstrating their commitment to environmental stewardship and sustainability.





ACTIVITY 09: ECO-ART EXHIBITION

Organized By:
The Department of Bioinformatics & Biosciences



The Department of Sustainability and Environment (DSE), in collaboration with the Department of Bioinformatics and Bioscience, GENIX Society, successfully hosted the Eco Art Exhibition on May 21st, 2025 from 9:00 AM to 12:00 PM at the B Block corridor. The event utilized eye-catching posters to promote the event and convey its message of environmental sustainability. Featuring striking visuals and creative designs, the posters highlighted the importance of protecting our planet and showcased the innovative artworks on display. With a clear emphasis on SDG 15: Life on Land, the posters effectively communicated the exhibition's goals and encouraged attendees to join in promoting eco-friendly practices. By leveraging visual art, the posters played a crucial role in engaging the community and inspiring action towards a more sustainable future.





ACTIVITY 10: QUICK QUIZ BUZZ: MY GREEN CARD PLEDGE

Organized By:
The Department of Bioinformatics & Biosciences



The Department of Bioinformatics and Biosciences organized an engaging educational activity titled "Quick Quiz Buzz + My Green Card Pledge" on April 17th, 2025, at the Scientific Model School. The session aimed to raise awareness among students about environmental sustainability and responsible practices in agriculture and forestry. The event began with the introduction of the Green Youth Club initiative and its goals. Students made pledges related to their commitment to environmental stewardship, specifically in the areas of forestry and agriculture. "My Green Card Pledge" encouraged participants to commit to small yet impactful eco-friendly actions. The activity fostered enthusiasm for sustainable development among young minds in line with the Sustainable Development Goal 15. The "Quick Quiz Buzz" segment tested students' knowledge through a fast-paced, interactive quiz, students divided into 3 groups and a round-based competition was held where the group with the most points after the end of the rounds won.





ACTIVITY 11: WORLD ENVIRONMENT DAY

Organized By:
The Department of Bioinformatics & Biosciences



World Environment Day was organized by the Directorate of Sustainability and Environment in collaboration with the GENIX Society and the GYM Club. Students and faculty gathered in front of F-Block participate in this engaging activity. The event aimed to raise awareness about the importance of trees and their role in sustaining the environment. By identifying and learning about various tree species, participants gained a deeper understanding of the significance of conservation and sustainability. To further promote sustainability, saplings were distributed among faculty members. This initiative aligns with the United Nations' Sustainable Development Goal 15: Life on Land, specifically Target 15.1, -15.9 and 15.a-15.c, focusing on ecosystem conservation, combating desertification, and fair sharing of genetic resources.

