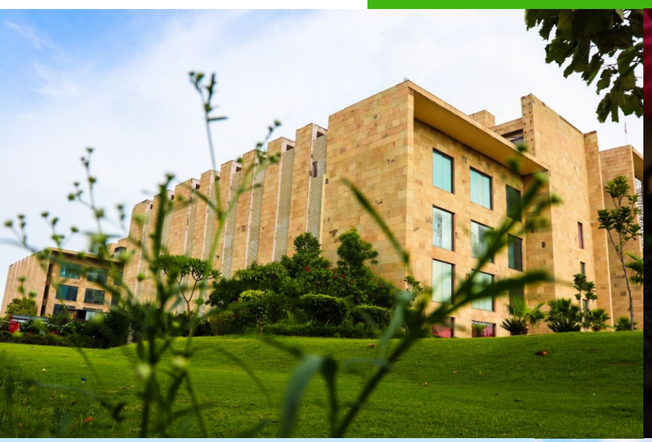
GALGOTIAS UNIVERSITY

15 LIFE ON LAND

Sustainability Report 2022-23

(Goal - 15)



Sustainable Development Goal - 15

SDG - 15 Focused issues/keywords

Bio Diversity *Deforestation* *Conservation* *EcoSystems*

LIFE ON LAND

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

STUDY SUSTAINABILIITY

Programs Offered -
Doctor of Philosophy (Ph.D.) in Environmental Sciences
M.Sc. in Sustainability

Introduction to SDG - 15

Galgotias University is deeply committed to advancing SDG 15: Life on Land, focusing on biodiversity conservation and the promotion of sustainable land-use practices.
The university's expansive 52-acre green campus serves as an exemplary model of eco-friendly practices, including large-scale tree plantations, organic orchards, and ongoing plastic-free initiatives.
The university actively engages students and the wider community in sustainability efforts through events like the 4th World Environment Summit and biodiversity seminars, raising awareness about the importance of protecting India's unique flora and fauna.
At the academic forefront, the School of Agriculture provides hands-on training in organic farming and beekeeping, equipping students with practical knowledge in sustainable agricultural practices.
Additionally, the university is engaged in cutting-edge research, exploring areas like medicinal plants in the Doon Valley, floriculture challenges in Himachal Pradesh, and innovative uses of nanotechnology in eco-friendly biodiesel production.
Galgotias University's Biodiversity Park and initiatives like 'Ek Ped, Desh Ka Vikaas' further highlight its dedication to research, innovation, and environmental action.
Through these efforts, the university is contributing to the preservation and sustainable management of land and natural resources, making a meaningful impact toward a greener, more sustainable future.

G-SCALE Galgotias Student Centered Active Learning Ecosystem.
No More Benches, Only Benchmarks.

World Class Campus Infrastructure
Active Learning Ecosystem

- *Policy for Supporting Quality Education for All*
- *Lifelong Learning Access Policy*
- *Innovative Teaching and Learning Policy*
- *Inclusive Education and Accessibility Policy*
- *Anti-Bribery and Anti-Corruption Policy*

Courses Offered -
Construction Engineering (G1UA401C)
Geotechnical Engineering (G1UA401B)
Remote Sensing & Geographical Information System (G1UA402B)
Water Supply & Treatment Systems (BCE01T3503)
Highway Geometric Design (MTPE5002)
Traffic Engineering and Safety (MTPE5003)
Intelligent Transportation Systems (MTPE5004)
Fundamentals of Soil Science (A1UA205B)
Introduction to Forestry (A1UA104B)
Soil and Water Conservation Engineering (A1UA203B)
Problematic Soils and their Management (A1UA410B)
Manures, Fertilizers and Soil Fertility Management (ARI3002)
Principles of Organic Farming (AGRI3018)
Mushroom Cultivation Technology (AGRI4007)
Agriculture Waste Management (AGRI4016)
Organic Production Technology (AGRI4017)
Conservation Agriculture (AGRON505)

Expert Session
Collaborative Classrooms

Energy Swaraj Yatra and SDG 15

Galgotias University actively supports SDG 15: Life on Land through its participation in the Energy Swaraj Yatra, a campaign focused on promoting solar energy as a sustainable alternative to traditional fuel sources.

Led by Dr. Chetan Singh Solanki, the "**Solar Man of India**," the campaign raises awareness about the detrimental effects of deforestation caused by reliance on wood-based fuels. By advocating for solar energy solutions, the campaign aims to reduce deforestation, protect natural habitats, and conserve biodiversity, aligning with the goals of SDG 15.

The university has hosted several events as part of this initiative, educating students and the community about the environmental impacts of fossil fuels and the importance of adopting clean, renewable energy. Through this campaign, Galgotias University contributes to preserving life on land by fostering sustainability, reducing carbon footprints, and protecting the planet's rich ecosystems for future generations.

Energy Swaraj Yatra and SDG 15

Galgotias University, in collaboration with Vilnius Tech University, organized an expert talk on "Railway and Transport Engineering" and "Digital Manufacturing and Mechatronics" in the C-Block main auditorium.

The event was hosted by the Departments of Computer Science Engineering, Civil Engineering, and Mechanical Engineering.

Emerging Trends in Highway Design : Opportunities & Challenges

Galgotias University's Department of Civil Engineering, in collaboration with SAARTHI INTERNATIONAL PVT LTD, organized a seminar on "Emerging Trends in Highway Design, Opportunities, and Challenges for Civil Engineers."

The event was graced by Mr. Kartik Khurana, Founder and CEO, and Mr. Pranshu Singla, Pavement and Construction Management Expert from SAARTHI INTERNATIONAL. The seminar explored the evolving landscape of highway design, focusing on technological innovations and career prospects in civil engineering.

A significant part of the discussion centered around the importance of sustainable practices in road construction, emphasizing eco-friendly materials and techniques that mitigate land degradation and promote environmental protection. The seminar underscored the relevance of SDG 15: Life on Land, by addressing the impact of highway construction on land conservation and biodiversity.

By promoting sustainable road design and eco-conscious solutions, the event aligned with both SDG 15 and SDG 9 (Industry, Innovation, and Infrastructure), fostering a commitment to greener and more sustainable civil engineering practices.

Protecting the land we stand on is not just an act of preservation; it's a commitment to safeguarding biodiversity, ensuring sustainable resources, and leaving a greener world for future generations.

Key Highlights of "**Railway and Transport Engineering**" and "**Digital Manufacturing and Mechatronics**":
Expert Talks: Prof. Sarunas Sukevicius (Vilnius Tech University) shared insights on sustainable transport engineering and innovations by students in the field.

Mechatronics and Digital Manufacturing: Prof. Dr. Vytautas Bucinskas discussed advancements in mechatronics, digital manufacturing, and invited students to explore opportunities at Vilnius Tech.

International Collaboration: The event marked the announcement of a collaboration between Galgotias University and Vilnius Tech University, facilitating student and faculty exchanges.

Q&A Session: A session followed, allowing students and faculty to interact with the experts.

Study Opportunities: Students were invited to study at Vilnius Tech University, with a living cost of 140 EUR per month.

Zero Waste Campus: Promoting Sustainable Waste Management

Galgotias University's "Zero Waste Campus" initiative, aligned with SDG 15 (Life on Land), focuses on reducing waste generation and promoting sustainability.

The program encourages effective waste segregation, with distinct categories for recyclables, organic waste, non-recyclables, and hazardous waste. By raising awareness through workshops and digital campaigns, the initiative educates students, staff, and faculty on responsible waste management practices.

The campus has implemented strategic infrastructure, including color-coded waste segregation bins, composting stations, and recycling units. Engagement is incentivized with a rewards program, and competitions foster community participation.

The initiative also features collaborations with local waste management firms to ensure proper recycling and composting.

Results include increased recycling rates, reduced landfill waste, and heightened sustainability awareness among the campus community. This initiative not only helps conserve natural resources but also supports the broader goal of ecosystem restoration and environmental stewardship.

Tree Plantation Drive for Greener Tomorrow

A significant tree plantation drive, planting over 750 saplings across the campus to promote environmental sustainability and enhance its green cover.
The event aimed to foster environmental awareness and encourage active participation from the university community.
Faculty members, students, staff, and National Cadet Corps (NCC) cadets enthusiastically joined hands to plant native tree species.
The drive began with an inspiring address by a distinguished professor from a premier institute and an IEEE Fellow, who emphasized the critical role of trees in combating climate change, improving air quality, and supporting biodiversity.
Participants worked in designated areas under the guidance of the horticulture team, planting trees while learning about sustainable practices. Interactive sessions underscored the benefits of afforestation, and refreshments provided a welcoming and collaborative environment.
This impactful initiative reflected the university's commitment to environmental conservation and sustainable