

SDG - 13

CLIMATE ACTION Take urgent action to combat climate change and its impacts

13 CLIMATE ACTION



Climate Action
Resilience
Adaptation
Mitigation

“ Introduction “

Galgotias University is steadfast in its commitment to Sustainable Development Goal 13, taking proactive measures to combat climate change and its impacts. The university integrates sustainability into its curriculum, offering specialized courses in environmental sciences, climate change, and sustainable management across various schools. Programs such as the Ph.D. in Environmental Sciences and courses on disaster management and environmental studies equip students with critical knowledge and skills to address pressing environmental challenges. The university's Centre for Environment and Sustainability (CES) drives research and community outreach, promoting innovative solutions for climate action. Initiatives like the "3G – Galgotias Goes Green," where over 10,000 trees were planted in 48 hours, exemplify its dedication to environmental stewardship. A strategic plan for carbon reduction aligns with the goal of achieving net-zero emissions by 2050. Galgotias also supports sustainability-focused startups, like Aeroworks Drone Technologies, advancing technologies for environmental monitoring. Through education, research, and action, Galgotias University champions climate resilience and sustainability.

“ Study on Sustainability at Galgotias University “

Programs -

Doctor of Philosophy (Ph.D.) in Environmental Sciences,
 M.Sc. in Sustainability

Courses offered -

B.Tech. CE with specialization in Smart Cities
 (A1UA203B) Soil and Water Conservation Engineering
 (G1UA402B) Remote Sensing & Geographical Information System

“ Galgotias University Community Initiatives “

Driving Action for SDG 13 through Tree Plantation Drive

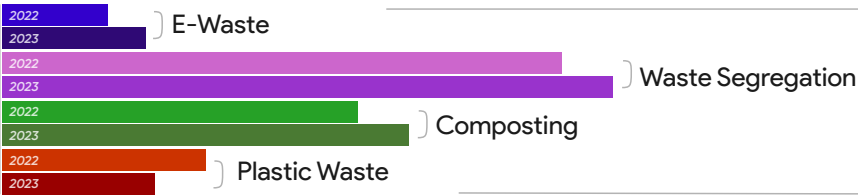
Galgotias University marked International Worker's Day with a powerful commitment to SDG 13: Climate Action through a Tree Plantation Drive. This initiative aimed to promote environmental sustainability, foster climate resilience, and contribute to the ongoing battle against climate change. Over 500 trees of native species were planted across the campus in a single day, a collective effort involving students, faculty, NCC cadets, and staff. The event featured insights from Dr. Yogesh Chauhan, IEEE Fellow, and Prof. (Dr.) Avadhesh Kumar, Pro-Vice Chancellor, who underscored the importance of trees in reducing carbon footprints, improving air quality, and combating climate change. Interactive sessions throughout the day educated participants on sustainable practices, climate change mitigation, and the vital role of trees in creating a greener, healthier ecosystem. Galgotias University continues to lead by example, taking meaningful steps to ensure a sustainable, climate-conscious future for all.

Global Sustainable Development Congress 2024

Galgotias University actively participated in the Global Sustainable Development Congress, joining forces with global sustainability leaders to share and align its vision for a sustainable future. Through engaging discussions and collaborative workshops, the university contributed valuable insights into the transformative actions needed to tackle SDG 13: Climate Action. As part of this global dialogue, Galgotias University shared its ongoing initiatives and strategies for reducing environmental impact, enhancing sustainability, and fostering climate resilience. By partnering with thought leaders and innovators, the university reinforced its commitment to addressing the climate crisis and contributing to the global effort in achieving the United Nations' Sustainable Development Goals. This participation underscores Galgotias University's dedication to driving meaningful change, building partnerships, and playing an active role in shaping a more sustainable and resilient world.

“ Student Initiatives/Startups“

○ **Aeroworks Drone Technologies** – we lead the way in aerial innovation, specializing in hydrogen-powered drones that revolutionize both efficiency and sustainability. Our goal is to reshape the future of aerial technology by integrating hydrogen fuel cells, enabling our drones to achieve higher energy efficiency, extended flight times, and zero emissions.



Annual
Waste
Management
Breakdown
(2022-2023)



"Innovative Solutions for Climate Action"

Innovative Solutions for Climate Action and Sustainable Agriculture

Galgotias University celebrated World Earth Day with a Model Making Competition organized by the School of Agriculture, aligning with SDG 13: Climate Action. The event's theme, "Planet vs Plastics and Integrated Farming System," aimed to raise awareness about climate change, plastic pollution, and sustainable farming practices. Participants showcased creative models addressing the urgent need to combat plastic waste, highlighting eco-friendly alternatives, recycling initiatives, and community engagement. The "Integrated Farming System" theme inspired innovative models demonstrating sustainable agriculture practices like organic farming, hydroponics, and agroforestry, emphasizing soil health, biodiversity, and resource conservation. Esteemed judges evaluated models based on creativity, environmental impact, and scalability, while fostering discussions on sustainability solutions. The event not only showcased practical approaches to reducing climate impact but also empowered students to take active roles in driving climate action, reinforcing Galgotias University's commitment to fostering environmental stewardship and sustainability.

" Galgotias University Campus Initiatives "

At Galgotias University, managing e-waste, plastic waste, and waste segregation is central to our dedication to sustainability. We encourage responsible disposal and recycling to reduce our environmental footprint. E-waste, including outdated electronics and appliances, is collected and sent to certified recycling centers for material recovery and to minimize harmful pollutants. To reduce plastic waste, we have implemented measures like a ban on single-use plastics and the promotion of reusable alternatives. Waste segregation is actively supported with strategically placed bins for recyclable, biodegradable, and non-recyclable materials throughout the campus, ensuring proper sorting. These initiatives reflect the university's broader commitment to fostering a cleaner, more sustainable environment and cultivating a culture of environmental responsibility among students and staff.



Electric Vehicle Charging Stations

Clean Energy stations for a Sustainable Future

Galgotias University has taken a significant step towards SDG 13: Climate Action by installing Electric Vehicle (EV) charging stations on campus. This initiative aligns with the university's commitment to sustainability and green transportation systems. By encouraging the use of electric vehicles, the project aims to reduce greenhouse gas emissions and promote clean energy solutions. The campus now features 6 Level 2 EV charging stations, equipped with Type 1 and Type 2 connectors, supporting a variety of electric vehicles. These stations are powered by a combination of grid electricity and solar energy, ensuring a sustainable power supply. Each charging point has a capacity of 7 kW, allowing multiple vehicles to charge efficiently. This effort not only enhances the campus's sustainability efforts but also supports global initiatives for clean energy adoption, reinforcing Galgotias University's dedication to fostering eco-friendly practices and contributing to the global fight against climate change.



RECYCLING IT FOR CLEAN CAMPUS

