



SDG - 12

RESPONSIBLE CONSUMPTION AND PRODUCTION We must learn how to use and produce in sustainable ways that will reverse the harm that we have inflicted on the planet.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



**Sustainable Cities
Inclusive
Resilience
Urbanization
Accessibility**

“ Introduction “

Galgotias University is committed to advancing Sustainable Development Goal 12: Responsible Consumption and Production through education, research, and innovative practices. Nestled within a lush 52-acre campus, the university combines modern infrastructure with sustainable design. Academic programs in environmental science, renewable energy, and sustainable development integrate sustainability into the curriculum, equipping students to address global challenges. The university's Experimental and Research Farm offers hands-on experience in sustainable agriculture, featuring polyhouses, RO water treatment plants, vermicompost units, and organic farms. A dedicated Research Centre on Sustainability focuses on renewable energy, climate change, and eco-friendly practices. Students tackle real-world issues, including waste management, solar energy, and plastic-free initiatives, fostering a culture of innovation. Collaborative projects with leading organizations and educational tours, such as visits to ICAR institutes, enhance learning. Through sustainable farming research, entrepreneurship training, and impactful publications, Galgotias University inspires a future defined by mindful consumption and responsible production.

“ Study on Sustainability at Galgotias University “

Programs -

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

Courses -

(BAUT3051) Vehicle Dynamics B.Tech ME
(G1UA101T) YOGA / Environmental Impact Analysis B.Tech CSE
(IID9014) Cement Technology B.Tech Civil Engg

“ Galgotias University Community Initiatives “

Environmental Sustainability and Swachh Bharat

Galgotias University NSS Special Camp Promotes Sustainability

Galgotias University organized an NSS Special Camp focused on "Environmental Sustainability and Swachh Bharat," fostering awareness and action toward protecting water bodies and promoting cleanliness. The camp emphasized the critical role of water bodies in maintaining ecological balance and highlighted the adverse impacts of urbanization and pollution. Participants learned effective conservation strategies, the importance of regulatory measures, and ways to mitigate environmental damage. The program inspired students and community members to take proactive steps in safeguarding natural resources. Practical activities and discussions encouraged community involvement, emphasizing collective responsibility for sustainable practices. The camp successfully instilled a sense of environmental stewardship and civic duty among participants, aligning with the vision of a cleaner, greener India. This initiative underscored Galgotias University's dedication to empowering individuals to lead positive environmental changes, ensuring long-lasting outcomes for ecological preservation and the Swachh Bharat mission.

Swachhta Hi Sewa Campaign

A Step Towards Cleanliness and Responsibility

The Legal Aid Clinic and Pro Bono Club of Galgotias University's School of Law conducted a cleanliness drive at Surajpur District Court, promoting environmental awareness and public responsibility. Students equipped with brooms, gloves, and garbage bags cleaned areas like the parking lot, pathways, and gardens, ensuring all waste was disposed of sustainably. Beyond cleaning, the students interacted with visitors and staff, advocating for proper waste disposal and fostering a sense of shared responsibility. A highlight was their street play (natak), which creatively emphasized the significance of keeping public spaces clean and protecting the environment. The event left the court premises cleaner and instilled a spirit of teamwork,

“ Initiatives at Galgotias University Sustainable Campus “

- Accessible Infrastructure
- Accessistive Technologies
- Accessible Facilities
- Disability Support Services



Resep Technologies

e-commerce business makes premium smartphones at affordable prices

Crave

creating a seamless, efficient, and customer-focused food ordering platform

StealthEra Innovation

innovative smart wearable goes beyond tracking daily health metrics

Ektara One

a transformative model in the retail and delivery landscape

STUDENT STARTUPS

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



accountability, and environmental stewardship among students. Participants pledged to uphold cleanliness and community engagement, transforming the drive into a powerful learning experience. The initiative reinforced Galgotias University's commitment to fostering responsible citizens and sustainable practices for a better society.



"Innovation and Circular Economy"

Expert Talk by Prof. J. Ramkumar, Professor, IIT Kanpur

Prof. J. Ramkumar delivered an insightful lecture on "Innovation & Circular Economy," offering a deep dive into sustainable development practices. The session highlighted diverse innovation types—incremental, radical, and disruptive—while emphasizing the role of design thinking in addressing challenges creatively and empathetically. A key focus was on India's innovative contributions, showcasing grassroots solutions and technological advancements that inspire leveraging local resources. The talk explored the circular economy's principles of reducing, reusing, and recycling, presenting real-world applications to drive resource efficiency. This expert lecture empowered participants to embrace innovation and sustainability for a resilient future.

Sustainable Water Conservation Initiatives

Galgotias University Campus Initiatives

Aligned with SDG 12: Responsible Consumption and Production, Galgotias University actively promotes sustainable water conservation and management on its campus. Rainwater harvesting systems have been installed across the premises, saving approximately 1 million liters of water annually. Initiatives like "Drop by Drop" foster a culture of water-saving among students and staff, reducing consumption through daily mindfulness. Workshops on efficient water management offer actionable insights, while regular water audits identify and eliminate wastage. Sustainable landscaping with drought-resistant plants and advanced irrigation further optimizes water use. These initiatives exemplify the university's commitment to responsible resource management and sustainability.

Initiative for Efficient Use of Natural Light

Campus up-gradations under G-SCALE

Galgotias University has undertaken a remarkable initiative to promote sustainable and energy efficient infrastructure by maximizing the use of natural light across its campus. The classrooms at Galgotias University are equipped with wide, double-paned glass windows that allow ample ambient natural light to illuminate the interiors, creating a well-lit and conducive learning environment during the daytime and Reduces dependence on artificial lighting, thereby lowering electricity consumption and minimizing the carbon footprint. Common Areas such as study halls, cafeterias, and libraries, large windows and strategically placed skylights have been installed. Enhance natural lighting, fostering a welcoming and eco-friendly ambiance. Encourage energy-efficient practices among students and staff by demonstrating the benefits of sustainable design.



Harnessing the Sun

Galgotias University's Leap Towards a Sustainable Future

Galgotias University champions renewable energy through impactful initiatives. The Solar Energy Symposium united experts and students to explore solar power integration, leading to the installation of additional solar panels, now meeting 30% of campus energy needs. The DIY Solar Energy Workshop empowered participants to create solar-powered devices, bridging theory with practical application. These initiatives underscore the university's unwavering commitment to sustainability, proving its dedication to greener solutions and inspiring students to become proactive agents of environmental change.

Galgotias' Green Outreach

Rooting Responsibility and Cultivating Awareness

Galgotias University's Community Engagement Initiatives exemplify its unwavering dedication to fostering environmental consciousness beyond its campus boundaries. The "Adopt a Tree" Program galvanized students and staff to shoulder responsibility for nurturing individual trees, fostering a symbiotic relationship with nature and enhancing the verdant ethos of the university. Complementing this, the Eco-Tour for School Students served as an educational odyssey, immersing young minds in the university's sustainable practices, from solar energy utilization to rainwater harvesting and efficient waste management. These initiatives sowed the seeds of eco-consciousness, extending the university's green philosophy into the broader community and cultivating environmental stewardship.

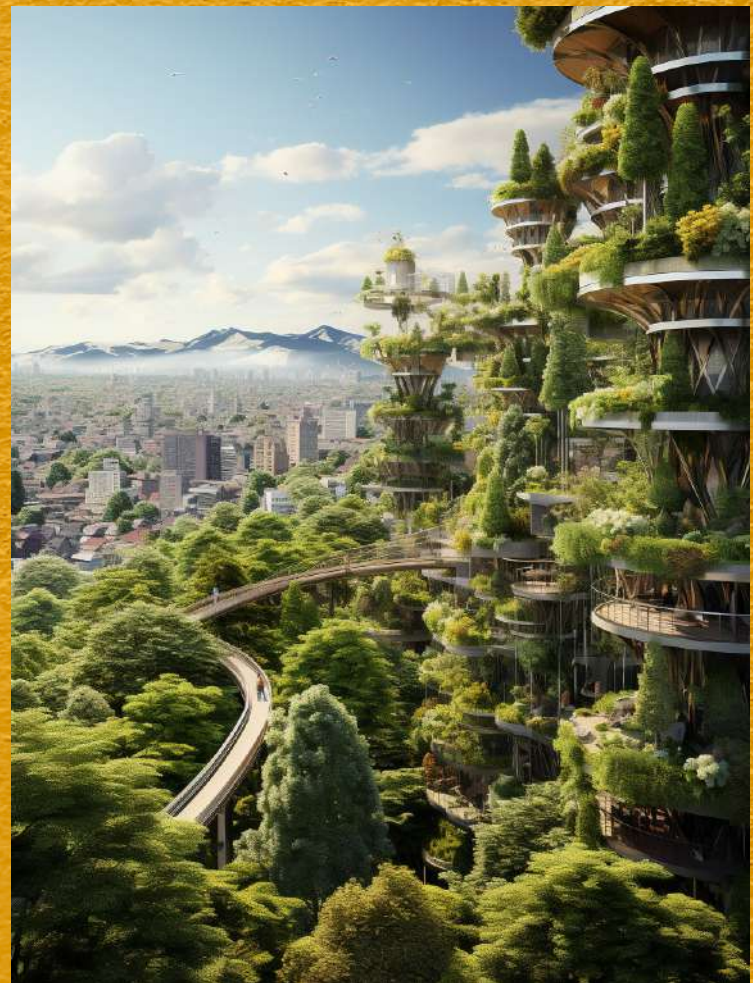
Greening Galgotias: Nurturing Nature, Cultivating Change

Galgotias University's Sustainable Landscaping and Biodiversity Programs stand as a testament to its commitment to ecological balance and environmental preservation. The "Green Campus, Clean Campus" Drive, spearheaded by the Green Warriors Club, planted over 500 trees, breathing new life into the campus and mitigating urban heat island effects. Meanwhile, the Biodiversity Week Celebration unfolded as a kaleidoscope of activities, including nature walks, a photography contest capturing the campus's verdant soul, and lectures championing ecological harmony. These initiatives, which struck a chord with participants, underscore the university's resolve to leave no stone unturned in nurturing its green legacy.

Research Poster Competition on Resource Efficiency

Innovative Solutions for a Greener Future

The competition at Galgotias University provided a dynamic platform for students to showcase their innovative solutions for optimizing critical resources such as water, energy, and waste management, combining technical creativity with a deep understanding of sustainability's environmental, social, and economic implications. It ignited a spark of creativity and critical thinking, motivating participants to develop cutting-edge strategies for resource management that are practical and impactful. The event emphasized the importance of innovation in tackling pressing resource optimization challenges, encouraging further exploration of scalable solutions that can make a lasting difference. It offered students at Galgotias University a unique opportunity to demonstrate their problem-solving skills and contribute fresh, forward-thinking perspectives to the global sustainability conversation.



Galgotias University champions SDG 12: Responsible Consumption and Production by fostering sustainable practices, promoting eco-friendly innovations, and integrating sustainability education, inspiring students to create a greener, more sustainable future.