GALGOTIAS UNIVERSITY

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns.



SDG - 12

Galgotias University Sustainability Report

2025–26



RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns.

SDG 12 | INTRODUCTION

Sustainable development begins with responsible choices in the way we produce, consume, and manage our resources. At Galgotias University, this commitment is reflected through a wide range of academic initiatives, research activities, industrial interactions, and awareness programmes that promote the principles of Responsible Consumption and Production under Sustainable Development Goal 12 (SDG 12). Through innovative teaching, practical exposure, and interdisciplinary learning, the university encourages students and faculty members to adopt sustainable approaches towards food production, processing and preservation, resource utilization, waste reduction, and environmental conservation.

Beyond the classroom, the university emphasizes the importance of responsible resource management and sustainable industrial practices. Expert talks, industrial visits, workshops, agricultural training programmes, and community initiatives provide opportunities for students to understand the significance of efficient production systems, sustainable packaging, organic farming, integrated pest management, energy conservation, and responsible consumption. These initiatives aim to create awareness about minimizing resource wastage, reducing environmental impact, promoting sustainable agricultural practices, and encouraging the adoption of innovative technologies across different sectors.

By bringing together education, research, industry collaboration, innovation, and environmental responsibility, Galgotias University strives to contribute meaningfully towards a more sustainable future. Its initiatives reflect the belief that responsible consumption and production are essential for conserving natural resources, protecting ecosystems, and ensuring long-term environmental sustainability. Guided by its commitment to advancing the Sustainable Development Goals and strengthening its position in global SDG rankings, the university continues to encourage responsible practices and innovative solutions that contribute to a resource-efficient and sustainable society.

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01 Harnessing Solar Energy for Sustainable Food Processing: Expert Talk on Solar-Assisted Hybrid Drying Technologies



The Department of Food Technology, School of Biosciences and Technology, Galgotias University, organized an expert talk on "Solar-Assisted Hybrid Drying Technologies for Sustainable Processing and Preservation of Foods" on 29 November 2025. The programme aimed to enhance students' understanding of sustainable drying technologies and their role in improving food processing and preservation.

During the session, Dr. Malakar discussed the importance of alternative drying technologies, the limitations of conventional drying systems, and the application of solar-assisted hybrid drying methods for improving energy efficiency and maintaining food product quality. Students gained insights into innovative hybrid drying systems, recent research developments, and their practical applications in the food industry. The session also highlighted the potential of advanced drying technologies in reducing post-harvest losses and promoting sustainable food processing practices.

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02 Advancing Sustainable Food Packaging: Expert Talk on Recent Advances in Food Packaging



The Department of Food Technology, School of Biosciences and Technology, Galgotias University, organized an online expert talk on “Recent Advances in Food Packaging” on 3 January 2026. The session aimed to acquaint students and faculty members with emerging trends, innovative materials, and modern technologies shaping the food packaging sector.

The session highlighted recent developments in food packaging, particularly sustainable packaging materials, smart and active packaging systems, and the role of advanced packaging technologies in ensuring food safety, maintaining product quality, and extending shelf life. The interactive discussion provided insights into emerging innovations and their applications in the food industry. The expert talk enhanced awareness of innovative and sustainable packaging solutions that can contribute to responsible production, improved food preservation, and reduced food wastage.

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03 Exploring Sustainable Packaging Technologies: Industrial Visit to the Indian Institute of Packaging (IIP), Delhi



Galgotias Polytechnic, Department of Mechanical Engineering, organized an industrial visit to the Indian Institute of Packaging (IIP), Delhi, an autonomous body under the Ministry of Commerce and Industry, Government of India, on 13 May 2026.

During the visit, students explored various packaging processes, quality testing techniques, automation systems, and the role of mechanical engineering in the packaging industry. Technical experts introduced students to different packaging and testing equipment, including Vacuum Packaging Machines, Blister Packaging Machines, Sealing Machines, Shrink Wrapping Machines, Carton Sealing Machines, Compression Testing Machines, Drop Testing Machines, and Labelling Machines. The industrial visit enhanced students' understanding of modern packaging systems and their contribution to sustainable industrial development.

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04 From Probiotic Innovation to Responsible Food Production: Industrial Visit to Yakult Danone India Pvt. Ltd.



The Department of Biotechnology and Bioengineering and the Department of Food Technology, School of Biosciences and Technology, Galgotias University, organized an industrial visit to Yakult Danonej India Pvt. Ltd., Sonipat, Haryana, on 21 November 2025.

During the visit, students attended an introductory session on the company's background, probiotic technology, and manufacturing operations. Students gained insights into Good Manufacturing Practices (GMP), hygiene protocols, quality assurance systems, and automated production processes. The visit provided an opportunity to understand how quality standards and systematic manufacturing practices are maintained in the food processing industry.

The industrial visit connected classroom learning with real-world applications and enhanced students' understanding of probiotic technology and industrial food production. By familiarizing students with organized manufacturing processes, quality control, and food safety practices, the initiative highlighted the importance of responsible production and quality assurance in the food industry.

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05 Greening the Environment: Civil Eco-Drive 2025–26 – Tree Plantation and Environmental Awareness Campaign



On the occasion of World Environment Day 2025, the Department of Civil Engineering, School of Engineering, Galgotias University, organized “Civil Eco-Drive 2025–26”, a tree plantation and environmental awareness campaign under the theme “Ek Ped Maa Ke Naam” (A Tree in the Name of Mother) on 5 June 2025 at Greater Noida.

The initiative aimed to promote environmental sustainability, enhance green cover, and encourage students, faculty members, and staff to actively participate in ecological conservation. The programme also included awareness discussions on climate change, biodiversity conservation, carbon sequestration, and sustainable resource management. Students learned about the role of trees in improving air quality, reducing carbon emissions, preventing soil erosion, and maintaining ecological balance. The initiative further highlighted the importance of integrating environmentally responsible practices into infrastructure planning, design, and construction. The campaign encouraged individual and collective responsibility towards environmental conservation and sustainable resource management.

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06 Promoting Responsible Water Use: Jal Mahotsav Awareness Campaign



The NSS Unit of Galgotias University organised an awareness campaign on “Jal Mahotsav” on 22 March 2026 at Village Junedpur, Dhankaur, Greater Noida, Uttar Pradesh, under the initiative of the Ministry of Jal Shakti.

The campaign aimed to sensitise the local community towards water conservation, the sustainable use of water resources, and the importance of preserving this vital natural resource for future generations. The volunteers interacted with the local community and encouraged residents to become more mindful of their everyday water consumption habits.

Extending the campaign beyond direct community engagement, the volunteers also prepared video content on water conservation in accordance with the instructions of the State NSS Cell. Photographs and videos from the campaign were subsequently shared on social media platforms to broaden public outreach. The villagers responded positively to the initiative, appreciating the efforts of the volunteers. The campaign concluded with a message emphasising collective responsibility towards conserving water and ensuring its sustainable availability for future generations.

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07 Promoting Energy Efficiency and Responsible Resource Utilisation: National Energy Conservation Day



The Department of Biotechnology & Bioengineering, School of Biosciences & Technology, Galgotias University, organised an awareness session on National Energy Conservation Day on 14 December 2025, as part of the Institution's Innovation Council (IIC). The programme aimed to educate students about sustainable energy practices, efficient resource utilisation, and the importance of energy conservation in promoting environmental sustainability.

The session commenced with an introduction by faculty members highlighting India's energy conservation initiatives and the significance of the Energy Conservation Act. Through presentations, discussions, and relevant case examples, students were introduced to renewable energy technologies, energy-efficient systems, and practical approaches to reducing carbon footprints in academic and household settings. The discussions also highlighted the role of young innovators in developing and adopting sustainable solutions to address emerging energy challenges and emphasised the importance of integrating energy-saving habits into everyday life and using available resources efficiently. It enhanced students' understanding of energy management strategies and encouraged them to take individual responsibility for environmental protection. The session reinforced the importance of responsible energy consumption in building a greener and more sustainable future.

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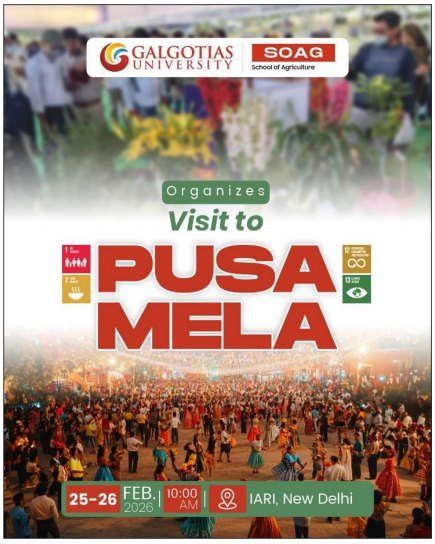
08 Promoting Sustainable Agricultural Practices and Resource Efficiency: Visit to Pusa Krishi Vigyan Mela



The Pusa Krishi Vigyan Mela, organised on 25–26 February 2025 at the campus of ICAR–Indian Agricultural Research Institute (IARI), New Delhi, provided an opportunity for agriculture students to explore recent advancements in agricultural technologies and sustainable farming practices.

The two-day event showcased live demonstrations of Rabi crop production technologies, protected cultivation of vegetables and flowers, modern farm machinery, high-yielding variety seeds, saplings, and innovative agricultural products. Other key attractions included free soil and water testing facilities, irrigation technologies for efficient water use, biofertilisers, and interactive sessions with farmers and agricultural experts.

During the visit, students explored various stalls and gained exposure to newly developed crop varieties and innovative technologies introduced by IARI. Particular attention was given to technologies such as Pusa Decomposer, the solar-powered Pusa Farm Sun Fridge, and Pusa Complete Bio-Fertilizer, a liquid formulation supplying nitrogen, phosphorus, and potassium. These innovations introduced students to practical approaches for improving agricultural resource management, promoting biological inputs, and exploring technology-based solutions for sustainable farming. The visit enhanced their awareness of innovations that can contribute to efficient agricultural production, responsible input utilisation, and environmentally conscious farming practices.

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09 Promoting Value Addition and Sustainable Agricultural Practices: Kisan Goshti



A Kisan Goshti was organised to sensitise farmers about the importance of value addition in enhancing agricultural income and promoting sustainable farming practices. Agricultural experts highlighted how processing, grading, packaging, and branding of farm produce can improve product quality, increase market value, and create better market opportunities for farmers.

The session also emphasised agro-processing, crop diversification, and direct marketing channels as strategies to strengthen farmers' market access and reduce their dependence on intermediaries.

The discussion further focused on the role of modern technologies, cold storage facilities, and efficient supply chain management in minimising post-harvest losses and ensuring better utilisation of agricultural produce. Farmers were introduced to practical approaches for improving productivity and profitability through value-added products and improved post-harvest management. The session also highlighted relevant government schemes and support systems available to encourage farmers to develop and market value-added agricultural products.

Farmers actively participated in the interaction, sharing their experiences and gaining practical insights into improving the quality, marketability, and economic value of their produce. The programme reinforced the importance of adopting efficient production, processing, and marketing practices to reduce losses, utilise resources effectively, and strengthen the sustainability of agricultural value chains.

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10 Encouraging Environmentally Responsible Lifestyles: Earth Day Celebration 2026



The School of Nursing, Galgotias University, organised an Earth Day Celebration on 22 April 2026 at GIMS Hospital, Greater Noida, under the Environment Health Awareness Programme. The programme aimed to sensitise healthcare learners, patients, and the general public to environmental conservation and its direct impact on human health.

The celebration was organised around the theme “Our Power, Our Planet,” highlighting the importance of individual and collective responsibility in protecting natural resources.

A key feature of the programme was an interactive role play presented by the students in the hospital's OPD area, enabling direct engagement with patients and members of the local community. Through meaningful performances and dialogue, the students highlighted environmental challenges such as air and water pollution, deforestation, climate change, and improper waste disposal. The presentation also communicated practical measures, including reducing plastic use, conserving water, maintaining cleanliness, and adopting environmentally responsible lifestyles.

The initiative provided a platform for students to translate their academic learning into meaningful community outreach. By communicating the importance of sustainable everyday practices and environmental protection, the programme encouraged participants to reflect on their individual responsibilities towards a healthier planet. The active engagement of the audience and the community-oriented approach contributed to the success of the awareness initiative.

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11 Promoting Green Finance for Sustainable Consumption and Production: Investing in the Planet 2.0



Galgotias University organised a guest lecture on 12 January 2026 to enhance students' understanding of sustainability, climate responsibility, and the role of individuals and institutions in promoting cleaner and more responsible consumption practices. The session highlighted the interconnected importance of climate action, clean energy initiatives, and responsible consumption in shaping a sustainable future.

The session shared academic insights and practical perspectives on the need for climate-responsive behaviour and environmentally conscious decision-making. Key areas of discussion included energy-efficient choices, waste minimisation, and the adoption of sustainable lifestyle practices. Students were also encouraged to understand the broader global framework guiding climate commitments and the transition towards greener practices.

The interactive session helped students connect sustainability concepts with real-world applications and recognise their individual responsibility towards environmental protection. It encouraged informed everyday choices and strengthened awareness of practices that contribute to long-term ecological well-being.

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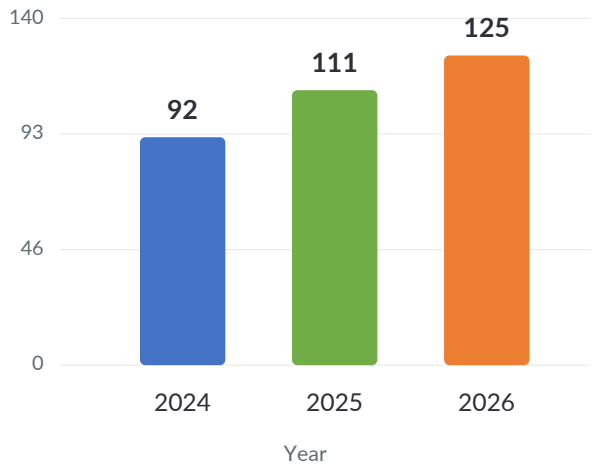
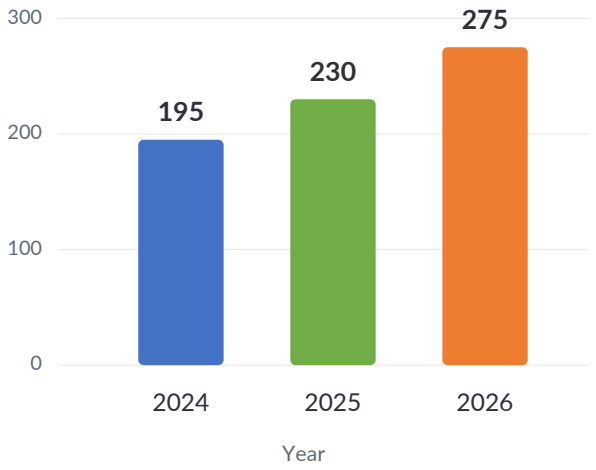
YEAR-ON-YEAR PERFORMANCE | 2024–2026

SDG 12 Events and SDG 12 Publications, as reported in the attached annual report.

SDG 12 EVENTS



SDG 12 PUBLICATIONS



METRIC	2024	2025	2026
SDG 12 Events	92	111	125
SDG 12 Publications	195	230	275

Source: SDG 12 Annual Report, charts headed "SDG 12 Events" and "SDG 12 Publications".