GALGOTIAS UNIVERSITY

11 SUSTAINABLE CITIES AND COMMUNITIES

SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable.



SDG - 11

Galgotias University Sustainability Report

2025–26



SUSTAINABLE CITIES AND COMMUNITIES

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SDG 11 | INTRODUCTION

Cities and communities thrive when people, places, and ideas grow together. At Galgotias University, this belief shapes a vibrant culture of sustainability, where classrooms, laboratories, and campus spaces become living models of the inclusive, safe, resilient, and sustainable settlements envisioned by Sustainable Development Goal 11 (SDG 11). Through innovative teaching, hands-on industrial exposure, technology-driven projects, and spirited awareness campaigns, the university leads by example in sustainable urban development, environmental protection, road safety, clean mobility, cultural heritage, and community well-being.

Beyond the classroom, the university promotes civic responsibility and community engagement. Cleanliness and environment drives, observances such as World Environment Day, Earth Day, and National Pollution Control Day, community service orientation, and health and safety training encourage students and faculty members to take an active role in building healthier and safer communities. The university also emphasizes the role of technology and innovation, including artificial intelligence, drones, digital construction tools, and data analytics, in creating smarter and more sustainable settlements.

By bringing together education, research, innovation, environmental responsibility, and community participation, Galgotias University strives to be a benchmark for sustainable cities and communities. Its initiatives reflect the belief that sustainable development begins with informed citizens who care for their surroundings and for one another. Guided by the vision of securing a leading position in global SDG rankings, the university continues to set high standards in impact, innovation, and community service.

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01 Breathing Easier: Observing National Pollution Control Day



The Department of Biotechnology and Bioengineering, Galgotias University, observed National Pollution Control Day on 2 December 2025 to commemorate the day and to encourage students to think seriously about the quality of the air, water, and land around them. The programme drew attention to the growing challenge of air, water, and land pollution and its serious consequences for public health and the environment.

Pollution remains one of the most serious threats to healthy and liveable cities. The observance highlighted the role of scientific knowledge, particularly in the field of biotechnology, in preventing and reducing pollution. It also encouraged students to adopt responsible everyday practices that lower their environmental footprint and contribute to a cleaner, healthier community.

By building awareness and a sense of personal responsibility among future scientists and professionals, the observance contributed to SDG 11's aim of reducing the adverse environmental impact of cities and promoting cleaner, healthier living environments. It also supported good health and well-being (SDG 3) and quality education (SDG 4).

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02 Greening the Campus: World Environment Day – Green Drive 2026



The School of Finance and Commerce (SFC), Galgotias University, organized "World Environment Day - Green Drive 2026" on 5 June 2026 under the national initiative "Ek Ped Maa Ke Naam", with the theme of promoting environmental sustainability through plantation and biodiversity conservation.

The programme encouraged responsible citizenship among students through experiential learning and collective responsibility of individuals towards protecting the environment.

Through a plantation drive, students gained first-hand experience in increasing green cover, mitigating climate change, and conserving natural resources and learned about ecosystem conservation, biodiversity management, and sustainable environmental practices, linking classroom concepts with real-world environmental initiatives.

Green and clean campuses are the first step towards sustainable communities. The initiative promoted environmental responsibility, community participation, and a shared sense of ownership of common spaces, in line with SDG 11 and its related goals on climate action, life on land, and partnerships.

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03 Biochar for a Greener Tomorrow: Sustainable Agriculture and Environmental Protection



The School of Agriculture, Galgotias University, organized a workshop on "The Multifaceted Role of Biochar for Sustainable Agriculture & the Environment" featuring the globally renowned expert Prof. Kadambot Siddique. The workshop focused on familiarizing students with the science, applications, and environmental relevance of biochar in modern agriculture, bridging theoretical learning and real-world environmental challenges.

The session provided an overview of biochar production and its role in soil amendment, highlighting improved soil structure, increased water-holding capacity, reduced nutrient losses, and enhanced microbial activity. Students gained insights on carbon sequestration, remediation of contaminated soils, crop resilience under climate stress, and biochar-based fertilizer formulations.

The workshop strengthened students' understanding of climate-smart agriculture and sustainable resource management, and encouraged them to think critically about innovation and environmental responsibility.

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04 Protecting Crops, Protecting Communities: Research Need for Integrated Pest Management



The School of Agriculture, Galgotias University, organized an expert lecture on "Research Need for Integrated Pest Management (IPM)", delivered by Dr. Subhash Chander, Former Director, ICAR–NCIPM, on 21 November 2025.

The session aimed to enhance understanding of current challenges, technological gaps, and emerging research directions in IPM, a scientific, eco-friendly approach that combines biological, cultural, mechanical, and chemical methods to manage pests sustainably.

During the session, students explored key issues in pest management at the national and global level, including invasive pest species, pesticide overuse, ecological imbalance, and shifts in pest dynamics. Research areas discussed included pest surveillance and forecasting, bio-intensive IPM strategies, AI and remote sensing in pest monitoring, novel biopesticides, climate-smart solutions, and decision-support tools for farmers.

The interactive discussion, covering precision crop protection, natural enemy conservation, and the socioeconomic dimensions of IPM adoption, connected classroom concepts with contemporary research needs and fostered scientific curiosity.

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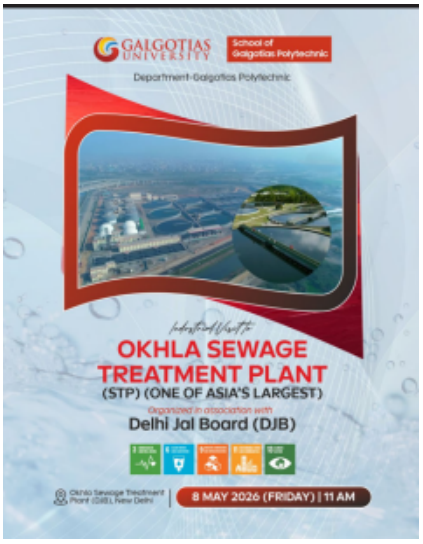
05 From Wastewater to Sustainable Cities: Learning at the Okhla Sewage Treatment Plant



The Department of Civil Engineering, Galgotias Polytechnic, organized an industrial visit to the Okhla Sewage Treatment Plant (STP), New Delhi, in association with Delhi Jal Board (DJB), on 8 May 2026.

During the visit, students gained first-hand knowledge of the functioning and treatment processes of one of Asia's largest sewage treatment plants and understood the various stages of treatment, including preliminary treatment, screening and grit removal, sedimentation, aeration and biological treatment, sludge treatment and disposal, and final water purification. Students observed machinery, tanks, pipelines, aeration systems, and control units in operation, and clarified their doubts on plant capacity, operational challenges, treatment efficiency, and sustainability practices.

The interactive learning experience connected classroom concepts with real-world applications in environmental and civil engineering, enhancing understanding of sanitation infrastructure, water conservation, and pollution control.

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06 Driving Towards Clean Mobility: Visit to EV India Expo 2025



Galgotias Polytechnic organized a visit to the 5th EV India Expo 2025 on 11 September 2025 at the India Expo Centre, Greater Noida. Billed as India's biggest electric motor vehicle show and organized by Indian Exhibition Services (IES) and the Green Society of India, the expo provided a platform to showcase the latest innovations and technologies in the electric vehicle (EV) sector.

During the visit, students gained exposure to electric cars, two-wheelers, and buses, along with charging infrastructure, battery technologies, and green mobility initiatives on display. The expo brought together EV manufacturers, industry experts, policymakers, and consumers, and featured concurrent events such as the Future of Transport Seminar, the E-Charge Forum, the E-Mobility Awards, and Green Drive 6.0.

The experience connected classroom concepts with real industry developments and fostered awareness of and interest in sustainable mobility.

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07 Smart Technologies for Smarter Communities: Workshop on Machine Learning & Artificial Intelligence



Galgotias Polytechnic, Galgotias University, in collaboration with APPWARS Technologies, organized a workshop on Machine Learning & Artificial Intelligence on 19 March 2026, inaugurated under the guidance of Dr. Mohit Gaharwar, Principal of Galgotias Polytechnic. The workshop aimed to provide students with practical insights into the rapidly evolving fields of AI and ML, bridging the gap between academic learning and industry applications.

The workshop covered the fundamentals of machine learning, supervised and unsupervised learning techniques, and applications of AI in sectors such as healthcare, smart cities, and industrial automation. The interactive session encouraged students to explore AI-driven solutions for real-world challenges, fostering innovation and critical thinking. Overall, the workshop enriched students' understanding of AI and its societal impact and motivated them to integrate AI into their academic projects and research.

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08 Empowered Women, Empowered Villages: Strengthening Rural Communities



The School of Agriculture, Galgotias University, organized a community seminar on “Empowered Women, Empowered Villages” at Kanarsa village on 9 November 2025. The seminar aimed to highlight the role of women in rural entrepreneurship, financial literacy, health awareness, and community leadership.

During the seminar, interactive discussions encouraged women to share the challenges they face and to explore opportunities for income generation, education, and skill development. The programme emphasized collective strength, self-reliance, and the importance of women-led initiatives for sustainable rural development. The seminar motivated rural women to become active contributors to village development, reinforcing that empowered women create empowered and progressive communities.

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09 Learning by Serving: Orientation on Community Service Projects



The School of Business, Galgotias University, organized a One-Day Orientation Programme on "Community Service Project" by NGOs for BBA IV Semester students on 30 April 2026 in A-Block. The programme aimed to sensitize students towards community service and social responsibility as part of their curriculum.

During the programme, seven NGOs conducted interactive sessions with the students: Prash Foundation, Nari Pragati Social Foundation, Nanhak Foundation, SEMS Foundation, Challengers Group Trust, USD Consortium, and Ineesha Foundation. The sessions gave students an understanding of community service and the role of NGOs in social development.

The orientation encouraged students to engage with society with empathy and responsibility and connected classroom learning with community-based action.

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10 Designing Solutions: Design Thinking Project Expo



The School of Engineering, Galgotias University, in collaboration with the Departments of Civil and Mechanical Engineering, organized the Design Thinking Project Expo 2025 on 22 December 2025. The expo aimed to foster innovation, creativity, and practical problem-solving among engineering students through project-based solutions developed using design-thinking principles.

During the expo, students showcased projects that followed a structured process of problem identification, ideation, prototyping, and testing, addressing real-world challenges in infrastructure, sustainability, technology, and industrial applications. Civil engineering students contributed solutions related to sustainable infrastructure, environmental management, and smart construction practices. Students also interacted with faculty members and peers, receiving feedback that helped improve their communication and presentation skills.

The expo connected theoretical knowledge with practical application, strengthening teamwork, leadership, and critical thinking, and encouraging user-centric and innovative approaches to problem-solving.

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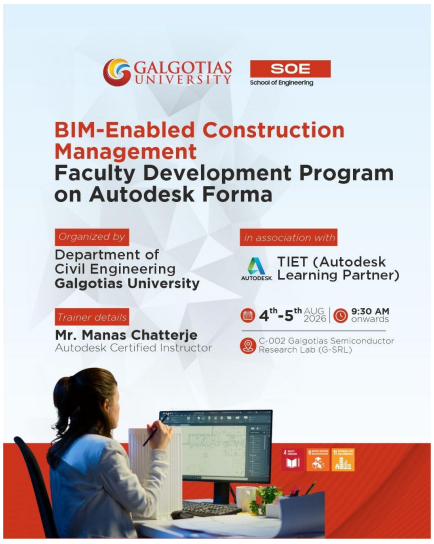
11 Digital Construction for Smarter Infrastructure: FDP on BIM-Enabled Construction Management



The Department of Civil Engineering, School of Engineering, Galgotias University, in association with TIET (Autodesk Learning Partner), organized a two-day Faculty Development Program (FDP) on "BIM-Enabled Construction Management using Autodesk Forma" on 4 and 5 August 2026.

The programme aimed to strengthen faculty competencies in Building Information Modelling (BIM), digital construction workflows, model coordination, and technology-enabled infrastructure planning.

During the FDP, Mr. Manas Chatterjee, Autodesk Certified Instructor, introduced participants to Autodesk Forma and demonstrated how digital tools can support planning, design coordination, visualization, collaboration, and informed decision-making across construction and infrastructure projects. Through practical demonstrations and interactive sessions, faculty members gained hands-on exposure to contemporary BIM-enabled workflows and learned about the relevance of integrating emerging digital technologies with conventional civil engineering practices.

The programme highlighted the importance of incorporating BIM methodologies into civil engineering education, supporting technology-enabled teaching, student projects, and laboratory activities. Overall, it enhanced faculty exposure to digital construction management and, by promoting efficient and well-coordinated infrastructure planning.

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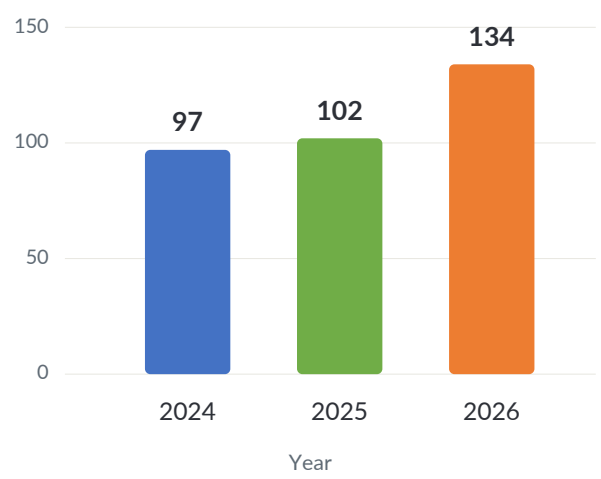
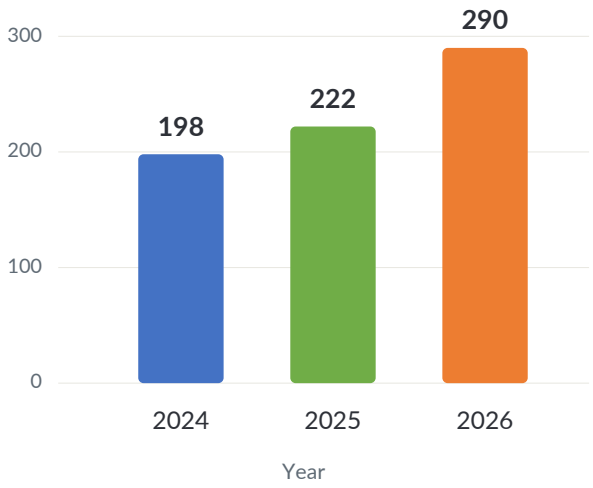
YEAR-ON-YEAR PERFORMANCE | 2024–2026

GU Events and GU Publications, as reported in the attached SDG 11 annual report.

GU EVENTS



GU PUBLICATIONS



METRIC	2024	2025	2026
GU Events	97	102	134
GU Publications	198	222	290

Source: SDG 11 Annual Report 2025–26, charts headed "GU Events" and "GU Publications".