GALGOTIAS UNIVERSITY

7 AFFORDABLE AND CLEAN ENERGY

AFFORDABLE AND CLEAN ENERGY

Ensure access to affordable, reliable, sustainable and modern energy for all.



SDG - 7

Galgotias University Sustainability Report

2025-26

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AFFORDABLE AND CLEAN ENERGY | GLOBAL CONTEXT

Sustainable Development Goal 7 (SDG 7), Affordable and Clean Energy, recognises the importance of energy services that people can access, rely on and afford. Its scope includes electricity and cleaner cooking, together with the transition towards more sustainable energy systems. The goal connects the needs of households and communities with wider questions of energy supply, technology and development. It therefore provides a useful framework for considering how technical progress can serve people while improving the sustainability of energy use.

The five SDG 7 targets set priorities for 2030. They seek access to modern energy services for everyone, a substantially larger contribution from renewables, and a doubling of the pace at which energy efficiency improves. They also call for stronger international cooperation on cleaner energy research, technology and investment, together with better energy infrastructure in developing countries. These priorities link access and affordability with innovation, efficiency and the practical capacity to deliver sustainable energy services.

Universities can contribute to this agenda through teaching, research exchange and informed discussion of the relationship between technology and society. An interdisciplinary approach helps learners consider energy alongside computing, communication and human needs.

01 Expert Talk on Intelligence for Impact: Engineering Sustainable Solutions for a Better Future

The Department of Computer Applications and Technology, SCAT, Galgotias University, organised an expert talk titled “From Intelligence to Impact” on 18 May 2026 at the New Auditorium, Block C. The session was delivered by Dr. Praveena Rajendra, Director, Impact Lab Clean Technology, Taylor’s University, Malaysia.



The speaker highlighted the role of computing, energy and communication in developing sustainable, human-centred solutions, emphasising technological innovation, social responsibility and the Sustainable Development Goals (SDGs). The programme provided valuable global insights into emerging technologies and sustainable development.

The event contributed to SDG 7 (Affordable and Clean Energy) by promoting awareness of clean technologies, sustainable energy solutions and interdisciplinary approaches to technological innovation.

SDG alignment 3 4 7 9

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02 Faculty Development Programme: Emerging Trends on Optoelectronic Materials and Photonics Technologies

The Department of Physics, School of Basic Sciences, Galgotias University, organised a five-day Faculty Development Programme (FDP) on "Emerging Trends on Optoelectronic Materials and Photonics Technologies" from 20-24 April 2026 in hybrid mode. The programme was conducted under the theme of Teaching and Learning Enhancement.

The FDP focused on recent advancements in optoelectronic materials, semiconductors, nanotechnology, quantum dots, nanophotonics, plasmonics and silicon photonics. Expert lectures, hands-on sessions and interactive discussions provided participants with insights into advanced fabrication techniques, material characterisation, simulation tools and practical applications.

The programme aimed to enhance academic knowledge, strengthen research capabilities and encourage the integration of emerging technologies into teaching, curriculum development and interdisciplinary research.



SDG alignment 3 4 7 9

03 Earth Day 2026: Healthy Planet, Healthy People – A Step Towards Sustainability

The School of Nursing, Galgotias University, organised an Environmental Health Awareness Programme on 22 April 2026 at GIMS Hospital, Greater Noida, under the theme "Our Power, Our Planet." The programme was conducted by fourth-semester nursing students under the guidance of Dr. Lekha Bist, Dean, School of Nursing, and coordinated by Dr. Anjum Abbasi.

The programme aimed to create awareness about environmental conservation and its impact on human health. Students presented an informative role play highlighting air and water pollution, deforestation, climate change and improper waste disposal. They also promoted practical measures such as reducing plastic use, conserving water, maintaining cleanliness and adopting environmentally responsible lifestyles.

The event provided students with an opportunity to connect classroom learning with community engagement through direct interaction with patients and the local community at the hospital's OPD area.



SDG alignment 3 4 6 7 11 12 13

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04 Micro-Innovate: Igniting Innovation through Hardware Prototyping

The IEEE Industry Applications Society (IAS) Student Branch Chapter, under the IEEE Student Branch, Galgotias University, organised "Micro-Innovate: The Hardware Mekathon" on 29 May 2026 in collaboration with the Department of Electrical, Electronics and Communication Engineering, School of Engineering.

The Mekathon provided a platform for students to showcase their hardware innovations and functional prototypes. Participants presented projects such as "Smart Shoes" and "Code Red Innovators," along with other engineering solutions. Faculty members and IEEE representatives interacted with students, discussing project concepts, design approaches and their potential practical applications.

The programme encouraged creativity, technical innovation, hands-on learning, teamwork and problem-solving skills. It also provided students with an opportunity to develop their presentation skills and gain practical exposure to hardware development.



SDG alignment: 4 8 9 12 13

05 Faculty Development Programme: From Electronics to Photonics and Quantum – Fundamentals for VLSI Circuit Design

The Department of Electrical, Electronics and Communication Engineering (DEECE), School of Engineering, Galgotias University, organised a five-day Faculty Development Programme (FDP) titled "From Electronics to Photonics and Quantum: Fundamentals for VLSI Circuit Design" from 18–22 May 2026 in hybrid mode.

The FDP focused on emerging developments in electronics, photonics, quantum technologies and Very Large Scale Integration (VLSI) circuit design. Expert lectures and interactive technical sessions provided participants with insights into advanced technological concepts, industrial applications and emerging research opportunities.

The programme aimed to enhance faculty knowledge, strengthen technical competencies and bridge the gap between theoretical understanding and evolving industry requirements. It also encouraged interdisciplinary learning, research collaboration and the integration of emerging technologies into academic teaching and research.



SDG alignment: 3 4 7 8 9 17

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06 Industrial Visit to Narora Atomic Power Station: Exploring Nuclear Energy and Power Generation Technologies

The Department of Electrical, Electronics and Communication Engineering, School of Engineering, Galgotias University, organised an industrial visit to Narora Atomic Power Station (NAPS), operated by the Nuclear Power Corporation of India Limited (NPCIL), on 17 July 2026 at Bulandshahr, Uttar Pradesh.

During the visit, Mr. Ram Das, APRO, HR Department, and Mr. A. K. Gupta, Station Training Centre, NPCIL Narora, provided insights into the principles of nuclear power generation, reactor operations and electricity production. Students gained exposure to operational safety, radiation protection, control systems, electrical equipment and advanced technologies used in nuclear power generation.

The interaction with experienced professionals helped students connect theoretical knowledge with real-world industrial practices. The visit also enhanced their understanding of power-generation infrastructure, engineering applications, safety standards and career opportunities in the energy sector.



SDG alignment 4 7 8 9 12 13

07 IEEE IAS Design Thinking Project Expo: Innovating Solutions for Real-World Challenges

The IEEE Industry Applications Society (IAS) Student Branch Chapter, Galgotias University, in collaboration with the Department of Electrical, Electronics and Communication Engineering (DEECE), School of Engineering, organised the IEEE IAS Design Thinking Project Expo on 23 December 2025 at the ground floor of Block C, Galgotias University.

The expo provided a platform for students to showcase innovative projects addressing practical challenges related to society, technology, sustainability and industry. Students applied the design thinking approach, including problem identification, ideation, prototyping and solution development, to develop creative and practical solutions to real-world problems.

The programme encouraged innovation, teamwork, critical thinking and experiential learning while enabling students to connect technical knowledge with societal needs and sustainable development objectives. It also provided opportunities to present ideas, interact with peers and explore the practical applications of engineering concepts.



SDG alignment 4 6 7 8 9 11 12 14 15

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08 Design Thinking Project Expo 2025: Driving Sustainable Innovation through Engineering Solutions

The School of Engineering, Galgotias University, in collaboration with the Departments of Civil and Mechanical Engineering, organised the "Design Thinking Project Expo 2025" on 22 December 2025 at Galgotias University. The programme was conducted under the theme "Design Thinking for Sustainable Innovation and Engineering Solutions."

The expo provided a platform for students to showcase innovative project-based solutions addressing real-world challenges in infrastructure, sustainability, technology and industrial applications. Students applied the design thinking approach, involving problem identification, ideation, prototyping and testing, to develop practical and user-oriented engineering solutions.

The programme encouraged creativity, critical thinking, interdisciplinary collaboration and experiential learning. It also enabled students to connect theoretical knowledge with practical engineering applications while strengthening their technical, teamwork and presentation skills.



SDG alignment: 3 4 5 7 9 12 16 17

09 The ACME GALA: Celebrating Creativity, Cultural Heritage and Student Talent

The Department of Electrical, Electronics and Communication Engineering, School of Engineering, Galgotias University, organised "THE ACME GALA" on 23 September 2025 at the New Auditorium, Block C, Galgotias University, Greater Noida. The cultural programme was organised by ACME, the Cultural and Technical Society, to celebrate its first anniversary. The event witnessed participation from 300 students and 50 faculty members.

The programme provided a vibrant platform for undergraduate students to showcase their creativity, artistic abilities and cultural talents. With 30 registered entries, the event celebrated India's rich cultural heritage and diversity through various cultural expressions, encouraging students to participate in activities beyond the academic curriculum.

The celebration aimed to promote cultural awareness, student engagement, teamwork, confidence and a sense of belonging within the university community. It also provided opportunities for students and faculty members to interact, appreciate diverse talents and strengthen the spirit of togetherness through cultural participation.



SDG alignment: 4 5 6 7 8 9 10 11 12 14 15

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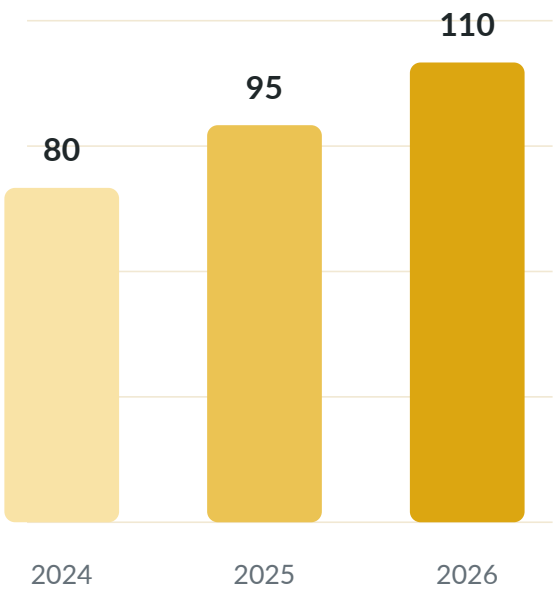
YEAR-ON-YEAR PERFORMANCE | 2024-2026

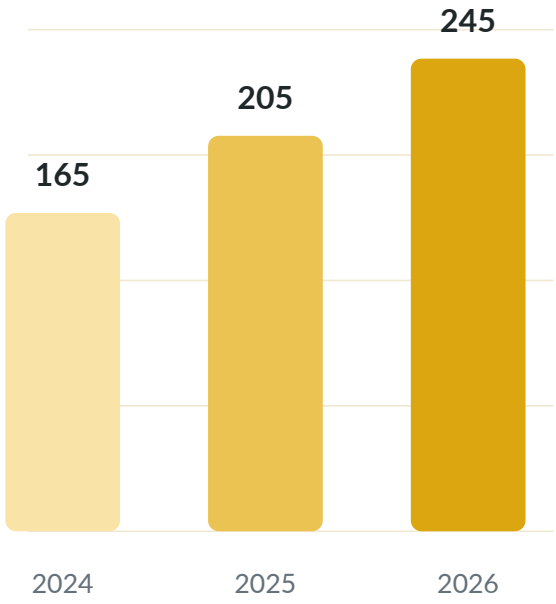
Activity and publication figures reproduced from the supplied SDG 7 report.

GU EVENTS



Source: SDG 7 Annual Report 2025-26

GU PUBLICATIONS



Source: SDG 7 Annual Report 2025-26

REPORTED CHANGE, 2025 TO 2026

+15 events
95 to 110 in the source chart

+40 publications
205 to 245 in the source chart

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Nine featured activities are drawn from the supplied annual report.