



## INDUSTRY, INNOVATION AND INFRASTRUCTURE

Investment in infrastructure and innovation are crucial drivers of economic growth and development.



SDG - 9

Galgotias University  
Sustainability Report  
**2024-25**



## INDUSTRY, INNOVATION AND INFRASTRUCTURE

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### INDUSTRY, INNOVATION AND INFRASTRUCTURE

Galgotias University leads the way in innovation, where ideas evolve into impact and learning transforms into lasting progress. Aligned with Sustainable Development Goal 9 – Industry, Innovation, and Infrastructure, the University fosters a culture of creativity, research, and entrepreneurship that drives sustainable development. Cutting-edge projects, global collaborations, and industry partnerships equip students to design solutions that strengthen economies and uplift communities. Each initiative—whether pioneering AI applications, developing green technologies, or enhancing industrial infrastructure—reflects Galgotias' commitment to empowering youth to build a smarter, more resilient, and innovation-driven world.

Through dedicated research centers, incubation hubs, and interdisciplinary programs, Galgotias nurtures innovators who bridge the gap between academia and real-world challenges. The University remains devoted to advancing technology with purpose—creating infrastructure that empowers, industries that sustain, and innovations that inspire a better future for all.



#### Industrial Visit to Shriram Institute for Industrial Research: Bridging Academia with Industry

The Department of Life Sciences, School of Biosciences and Technology, Galgotias University, organized an industrial visit to the Shriram Institute for Industrial Research (SRI), New Delhi, on April 25, 2025. Students interacted with senior scientists including Dr. Vivek Narayan Singh and team, gaining insights into environmental research and career opportunities.



They explored laboratories such as Microbiology, Instrumentation, and Environmental Sciences, observing advanced techniques and equipment. The session concluded with an inspiring lecture by Dr. Shekhar C. Mande on the role of research in addressing environmental issues. The visit enriched students' practical learning and motivated them toward research-driven careers.

SDG aligned



#### Empowering Engineers with Design Precision: Workshop on AutoCAD & STAAD Pro

The Department of Civil Engineering, Galgotias Polytechnic, organized a workshop on AutoCAD & STAAD Pro on April 5, 2025, to enhance students' technical skills in drafting and structural analysis.

The session was conducted by Mr. Rupesh Kumar Jha, Director, Educaed Designs Pvt. Ltd., Greater Noida, who shared his rich industry expertise. Students were introduced to AutoCAD applications for 2D drafting, layouts, and part detailing, while STAAD Pro demonstrations highlighted modeling, load applications, and structural analysis.

The interactive workshop bridged theoretical concepts with real-world applications, improving project readiness and employability. The session concluded with an engaging Q&A, ensuring active student participation.



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### Tata Power Skill Development Institute (TPSDI) ,Princeton Engineering, HERO MOTOCORP, and DIY Guru EV Vehicle

On 7th July 2024, a highly insightful webinar titled "Test Automation Unleashed" was conducted by Jaspreet Kaur, Senior Test Automation Engineer at Sumup, Berlin. The session focused on the critical role of automation in modern software testing, especially within agile frameworks.

Jaspreet shared expert knowledge on tools, frameworks, and best practices, emphasizing how automation enhances accuracy, speed, and efficiency in testing processes. The webinar also addressed current trends, technologies, and common industry challenges with practical solutions. It proved to be an enriching experience for professionals keen on optimizing software quality through advanced testing methodologies.



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### Expert Lecture : Leveraging Marketing Analytics to Predict Customer Preferences and Drive Personalization

On April 19, 2025, the School of Business, Galgotias University, under NEXTGEN Analytics, organized an insightful Expert Lecture Workshop on "Leveraging Marketing Analytics to Predict Customer Preferences and Drive Personalization." Guided by Dr. Palak Gupta, the session featured Mr. Abhinav Raj, Senior Key Accounts Manager, Zomato.

He shared industry insights on predictive analytics, customer segmentation, and machine learning applications in marketing. Students explored real-world case studies of Zomato, hands-on exercises with Advanced Excel, and Power BI dashboards. The workshop successfully bridged theory with practice, inspiring students to embrace analytics for customer-centric strategies and innovative marketing solutions.



SDG aligned



### Test Automation Unleashed: Empowering Agile Software Development

On 7th July 2024, a webinar titled "Test Automation Unleashed" was conducted by Jaspreet Kaur, Senior Test Automation Engineer at Sumup, Berlin. The session offered in-depth insights into the evolving landscape of software test automation. Participants explored essential tools, frameworks, and best practices that enhance testing efficiency, particularly in agile development environments.

Jaspreet highlighted emerging trends, real-world applications, and key challenges with practical solutions. The webinar served as a valuable knowledge resource for professionals aiming to boost software quality through automated testing, making it a vital learning experience in today's fast-paced software development world.



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### Exploring AI with TensorFlow: A Webinar by Dr. Anukriti Bansal

An engaging and informative webinar on TensorFlow was conducted by Dr. Anukriti Bansal (Ph.D., IIT Delhi; TFUG Jaipur Lead), offering participants a deep dive into the world of machine learning and artificial intelligence. Held on 21st July 2024, the session covered TensorFlow's architecture, the building and training of neural networks, and its diverse real-world applications such as image recognition and natural language processing.

The webinar aligned with SDG 9 (Industry, Innovation & Infrastructure) and also contributed to SDGs 4, 8, and 10 by promoting quality education, tech-driven careers, and inclusivity in the STEM domain.



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### Inside ISRO: A Glimpse into Space-Grade Software Engineering

A fascinating webinar on How Software Engineering Works at ISRO was conducted by Jaspreet Kaur, Senior Test Automation Engineer at Sumup, Berlin. Held on 14th July 2024, the session explored ISRO's specialized software practices essential for space missions. Participants gained insights into real-time systems, high-reliability coding, simulation setups, and mission-critical testing.

The discussion highlighted how software supports satellite launches and interplanetary ventures. Aligning with SDG 9 (Innovation & Infrastructure), the webinar also promoted SDG 4 (Quality Education), SDG 8 (Decent Work), and SDG 10 (Reduced Inequality), by inspiring future engineers to embrace cutting-edge, inclusive careers in STEM.



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### Expert Talk on "Artificial Intelligence in Clinical Research"

The Department of Pharmacy, School of Medical & Allied Sciences, Galgotias University, organized an Expert Talk on "Artificial Intelligence in Clinical Research" on April 24, 2025. The session was delivered by Mr. C.S. Mujeebuddin, Founder and Director, ClinoSol Research Pvt. Ltd., Hyderabad. He discussed AI applications in clinical trials, patient recruitment, drug discovery, and data analysis, while also addressing challenges of ethics and data privacy.

The session was anchored by Ms. Neha Sharma with support from Dean Prof. S.K. Abdul Rahaman. Students gained valuable insights into AI-driven innovations and emerging career opportunities in the healthcare and research sectors.



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### Empowering Futures: Workshop on Financial Education for Young Citizens

The School of Finance and Commerce, Galgotias University, organized a one-day workshop on "Financial Education for Young Citizens" on 1st December 2024, targeting final-year students of MBA, B.Com (H), and B.Com (H) (IAF). Conducted in collaboration with the National Institute of Securities Market (NISM) and Aditya Birla Securities, the workshop aimed to build awareness and capacity in financial and securities markets.

Dr. Shikha Gupta, SMARTs Trainer-SEBI and Financial Expert, led the session with comprehensive insights into savings, investments, stock market strategies, and retirement planning. Pre- and post-session quizzes engaged students in active learning. The session was mentored and coordinated by Mr. Sandeep Kumar Sahu.



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### From Ideas to Impact: Galgotias Hosts SBI Youth Ideathon

On 25th February 2025, the School of Business, Galgotias University, in collaboration with IIT Delhi, MEPSC, and ThinkStartup Foundation, hosted the SBI College Youth Ideathon to nurture entrepreneurial spirit among students. Led by Mr. Gaurav Aggarwal, Head of Academics & Ecosystem Strategy at ThinkStartup, the workshop highlighted the difference between uniqueness and innovation, emphasizing scalability as the key to startup success.

Students gained practical insights into idea validation, market assessment, and business model development. The interactive session sparked creativity, encouraged networking, and inspired students to pursue entrepreneurship, making it a stepping stone toward building innovative and impactful ventures.



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### Bridging Science and Innovation: Galgotias Students at NDRI, Karnal

On National Science Day (28th February 2025), 41 students from B.Tech Biotechnology, B.Tech Food Technology, and B.Sc. Clinical Nutrition and Dietetics, along with 6 faculty members from Galgotias University's School of Biosciences & Technology, visited the National Dairy Research Institute (NDRI), Karnal. The visit offered hands-on exposure to modern agriculture, dairy innovations, and food processing technologies. Students explored labs including Animal Biotechnology, Agronomy Biochemistry, Microbiology, and Dairy Chemistry, gaining insights into genetic improvements, sustainable practices, food safety, and quality control. Interactions with NDRI scientists inspired research aspirations, aligning with Galgotias University's vision of experiential learning and industry-academia collaboration.



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### 5th International Symposium on Next Generation Science and Technology: Empowering Youth for Viksit Bharat

On 28th February 2025, the Department of Life Sciences, School of Biosciences and Technology, Galgotias University, in collaboration with Universiti Teknologi Malaysia and Pulse Foundation, organized the 5th International Symposium on Next Generation Science and Technology. Aligned with the theme "Empowering Indian Youth for Global Leadership in Science and Innovation for Viksit Bharat", the event featured distinguished talks by experts including Dr. Pravin Kumar (IUAC, Delhi), Dr. Shruti Agrawal (Pulse Foundation), and Dr. Sumit Murab (IIT Mandi).

The symposium also included interactive discussions, oral presentations, and certificate distribution, offering participants valuable exposure to cutting-edge research and innovation.



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### Team Crafting Future Wins 1st Place at HackHound 3.0

From 27th–28th February 2025, Galgotias University's Team Crafting Future secured the #1 position at HackHound 3.0, a 24-hour national-level hackathon hosted at SRMIST, Delhi NCR. With over 400+ registered teams, 150+ finalists, 8 problem statements, and 4 judging rounds, the competition was intense and innovation-driven. Guided by mentors and fueled by creativity, the team showcased exceptional problem-solving, technical expertise, and collaborative spirit, advancing to the final top 10 and ultimately winning first place.

This achievement not only highlighted their innovative approach but also reinforced their passion for impactful, tech-driven solutions and future entrepreneurial pursuits.



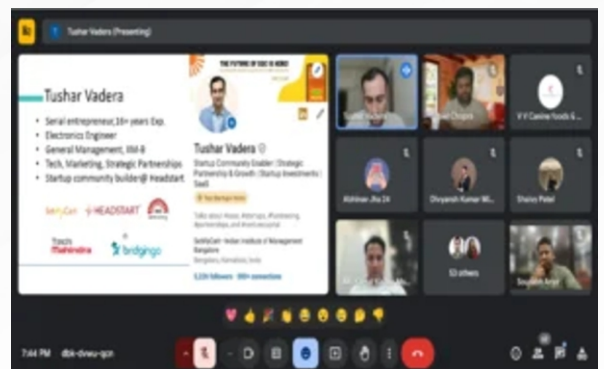
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### Mastering the Art of Pitching: GIC RISE Hosts Session with SetMyCart Co-Founder

On 28th February 2025, GIC RISE organized an engaging session on "How to Pitch" for Galgotias Ideathon participants, featuring Mr. Tushar Vadera, Co-Founder of SetMyCart, as the keynote speaker, with Mr. Kamal Kishor Malhotra, CEO of GIC RISE, moderating the discussion.

The session offered budding entrepreneurs practical insights into crafting compelling pitches, structuring pitch decks, and effectively communicating their startup vision. Through interactive discussions and real-world strategies, participants enhanced their pitching skills, gained confidence to engage investors, and learned the essentials of storytelling in entrepreneurship—strengthening their readiness to transform ideas into impactful ventures.



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### Team Crafting Future Secures 1st Position at CodeWizard'25 Hackathon

On 28th–29th January 2025, Team Crafting Future from Galgotias University clinched the 1st position at CodeWizard'25, SRMIST Delhi NCR's flagship 24-hour national hackathon. Hosted on the DoraHacks platform, the event attracted 400+ registered teams, with only 150+ advancing to the onsite round.

After four intense judging rounds, the team emerged as the top winner among the final 10 teams. Tackling real-world problem statements across diverse domains, the victory was a testament to the team's innovation, collaboration, and technical excellence. The experience not only brought recognition but also inspired the team to pursue future tech-driven innovations.



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### Government Funding Opportunities for Startups & Innovators (Expert Session)

On 15th January 2025, Galgotias Incubation Centre for Research Innovation Startup and Entrepreneurs (GICRISE) hosted a dynamic expert session on "Government Funding Opportunities" led by Dr. Mukesh Kestwal, Chief Innovation Officer, iHub-AWaDH, IIT Ropar. The session offered comprehensive insights into funding schemes such as Startup India, MeitY Bhashini, MSME, and NITI Aayog.

A highlight was the in-depth discussion on iHub AWaDH's SPRINT Edition, providing valuable knowledge on securing non-dilutive grants. The session empowered student innovators and startups with practical tools to access funding, prepare impactful proposals, and align their ventures with national priorities for sustainable growth.



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### Expert Session on Use & Application of Critical Care Equipment (Mechanical Ventilator)

On 21st January 2025, Galgotias School of Nursing conducted an expert session on the use and application of mechanical ventilators under the guidance of Dr. Lekha Bist, Dean, SON.

The session, led by Mr. Tarun Saini, Nursing Officer at Lok Nayak Hospital, focused on ventilator evolution, core components, technological advancements, and practical challenges. Participants learned about ventilator setup, calibration, monitoring, and troubleshooting.

The event provided valuable insights into modern respiratory care, promoting interactive learning and professional development among nursing students. It was a successful and enriching session that highlighted the importance of innovation in critical care.



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### Industrial Visit to Cityspace'82 Architects, Gurugram

The School of Design, Galgotias University, organized an industrial visit to Cityspace'82 Architects, Gurugram, on June 28, 2025, for 25 students of B.Des – Interior Design. Guided by faculty members and hosted by founder Ar. Sumit Dhawan, students explored the firm's design philosophy, sustainable practices, and studio workflow.

The visit included a studio tour, interactive sessions with project leaders, and mood board presentations by the interior design team. Students gained insights into design thinking, client-centric approaches, material selection, and the role of illumination in spatial aesthetics.

The visit effectively connected academic learning with real-world design practice.



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### Bridging Ayurveda with AI and Neuroscience: A Step Toward Future Healthcare

The School of Computer Application and Technology, Galgotias University, organized an expert talk on "Latest Trends of Neuroscience and AI in Ayurveda" on 13th June 2025 in Room C-101. The session was delivered by Dr. Neha Mahajan, an eminent Ayurvedic practitioner and researcher. She highlighted the integration of Neuroscience and Artificial Intelligence with Ayurveda, focusing on personalized healthcare, herbal drug discovery, and wellness platforms like NutrifGenie.

The talk emphasized Ayurveda's three pillars—food, sleep, and energy balance—while showcasing government initiatives and AI-driven innovations. The interactive session enriched students and faculty, inspiring interdisciplinary learning and holistic healthcare approaches.



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### Launch of Digital Shakti Phase 5 by National Commission for Women and Cyberpeace Foundation

On 5th July 2024, faculty and students from the School of Liberal Education, Galgotias University, attended the launch of Digital Shakti Phase 5.0 by the National Commission for Women at Vigyan Bhavan, New Delhi.

The event aimed to empower women and girls with cyber skills and awareness of emerging technologies like AI and Blockchain. Engaging discussions on cyber wellness and women's safety online provided valuable insights.

The experience enriched students' understanding and inspired active contribution toward creating a safer digital ecosystem.



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### Exper Talk on Agentic AI: Building AI Agents for Autonomous Task Execution

The School of Computer Application and Technology, Galgotias University, organized an expert talk on "Agentic AI: Building AI Agents for Autonomous Task Execution" on 14th June 2025 in Room No. 101, C-Block.

The session was delivered by Mr. Ravi Kumar, Machine Learning and AI Specialist at Dollar General (USA), who shared deep insights into the design and deployment of autonomous AI agents.

He explained agent architectures, learning mechanisms, and real-world applications across industries, while also addressing ethical challenges. The session included career guidance, project showcases, and an engaging Q&A. Students gained conceptual clarity, practical exposure, and career-oriented motivation.



SDG aligned



### How ChatGPT and Generative AI Work Under the Hood – From Tokens to Transformers

The School of Computer Application and Technology, Galgotias University, organized an expert talk on "How ChatGPT and Generative AI Work Under the Hood – From Tokens to Transformers" on 14th June 2025. The session was delivered by Mr. Akash Shah, AI and Generative AI Consultant at TCS, who provided deep insights into the working of modern AI models.

He explained tokenization, transformer architectures, and attention mechanisms while highlighting real-world applications in healthcare, education, and content creation.

Ethical AI and data privacy were also discussed. An interactive Q&A, project ideas, and student participation made the session highly enriching and impactful.



SDG aligned



### Industrial Visit to CSIR-Central Road Research Institute (CRRI), New Delhi

The Department of Electrical, Electronics & Communication Engineering, Galgotias University, organized an industrial visit to CSIR-Central Road Research Institute (CRRI), New Delhi on 19th June 2025 for B.Tech. students of DEECE and DOCE.

Guided by experts including Dr. Kayitha Ravinder, Dr. Kamla Masih, Dr. Siraj, and technical officers Dr. Rohit Chamoli, Dr. Bhupendra, Dr. Sikander, and Dr. Sarfaraz Ahmed, students explored state-of-the-art laboratories and observed demonstrations on bitumen testing, material strength evaluation, and pavement engineering.

The visit bridged theory with practical applications, enhanced career awareness, and motivated students toward research and innovation in civil and infrastructure engineering.



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### Galgotias University Shines at Bharat Shiksha Expo 2025 with Best Exhibitor Award

The Galgotias Incubation Centre for Research Innovation Startups and Entrepreneurs (GICRISE) proudly represented Galgotias University at the Bharat Shiksha Expo 2025, held from April 24–26 at India Expo Mart, Greater Noida. The Pavilion showcased cutting-edge innovations, including the Wireless Electric Bus, AI Knowledge Centre, 3D printing, sports achievements, and standout startups—Cybergenix Pvt. Ltd., Infyra Innovations LLP, and Manparth LLP. With vibrant student engagement and corporate interactions, the Pavilion drew immense appreciation, culminating in the prestigious Best Exhibitor Award. The participation highlighted Galgotias University's leadership in transformative education, innovation, sports, and entrepreneurship, reinforcing its vision of nurturing future-ready global leaders.

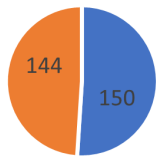


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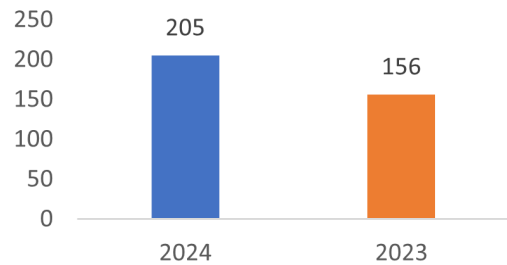
## Research, Awareness & Innovation Improvements

### GU Events (SDG 9)



■ 2024 ■ 2023

### GU Publications (SDG 9)



True education transcends classrooms; it's about empowering lives, uplifting communities, and creating a ripple of lasting change.

