NIET
Greater Noida
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Get Future Ready

PULSE

MONTHLY NEWSLETTER

FEB-2026

Noida Institute of Engineering & Technology, Greater Noida

CHAIRPERSON'S REFLECTIONS

Dr Sarojini Agarwal

Chairperson
Noida Institute of Engineering & Technology, (NIET)

It gives me immense pride to address the NIET community through the second issue of our monthly newsletter *Pulse*. Our journey reflects steady progress and purposeful growth, rooted in academic excellence, driven by innovation, and guided by a clear institutional vision.

NIET is evolving as an institute of excellence in the digital arena with growing global outreach, moving steadily toward becoming a university and an entrepreneurial hub. At the heart of this transformation is our commitment to nurturing socially responsible professionals who are future-ready and capable of contributing meaningfully to a rapidly changing world.

The strength of NIET lies in the academic ecosystem we have built to blend rigorous learning with skill development, innovation, and values. Our faculty's dedication and our students' confidence stand as clear indicators of this progress. Education at NIET extends beyond classrooms, with strong emphasis on sports, cultural engagement, community service, and leadership development. These experiences foster resilience, empathy, discipline, and teamwork, ensuring holistic growth and character formation.

In alignment with our mission, NIET continues to strengthen its focus on research, product development, innovation, incubation, and entrepreneurship. Supporting the national vision of a self-reliant India, we emphasize indigenous innovation, industry-ready education, and skill development to create a confident and capable workforce. Our alumni, contributing across sectors and geographies, remain ambassadors of this vision and a source of enduring pride.

To enhance global engagement and lifelong learning, NIET is expanding collaborations with national and international institutions, industries, and research organizations. These partnerships open pathways to global best practices, diverse perspectives, and transformative opportunities, empowering our students to adapt, innovate, and lead with confidence and integrity.

Pulse reflects this collective journey; capturing achievements, milestones, and stories that connect students, faculty, staff, and alumni. It stands as a testament to shared effort and shared belief in NIET's mission.

I extend my sincere appreciation to everyone who contributes to this journey. With continued dedication and unity of purpose, I am confident that NIET will scale new heights and create lasting impact in the years ahead.

With best wishes for continued success,

Celebrating Vision, Leadership, and Inspiration – Birthday Wishes to Our Hon'ble Chairperson, Dr Sarojini Agarwal

HAPPY Birthday

NIET extends its heartfelt birthday wishes to our Chairperson, Dr Sarojini Agarwal, on the occasion of her birthday on 31 January 2026. Her visionary leadership and unwavering commitment to education continue to inspire excellence across the institution. As we reflect on the milestones of January, we gratefully acknowledge her invaluable guidance and wish her good health, happiness, and continued inspiration for the entire NIET fraternity.

PULSE – Showcasing NIET's Stories of Excellence, Every Month

January 2026 marked the successful inauguration of *PULSE*, NIET's monthly newsletter, envisioned as a vibrant platform to showcase institutional achievements, academic initiatives, and campus highlights. The newsletter aims to bring together important updates and accomplishments from across the institute, strengthening communication and engagement within the NIET community. The initiative reflects the continued support and visionary guidance of the management and the dedicated efforts of the editorial team.

Proud Placement Milestones

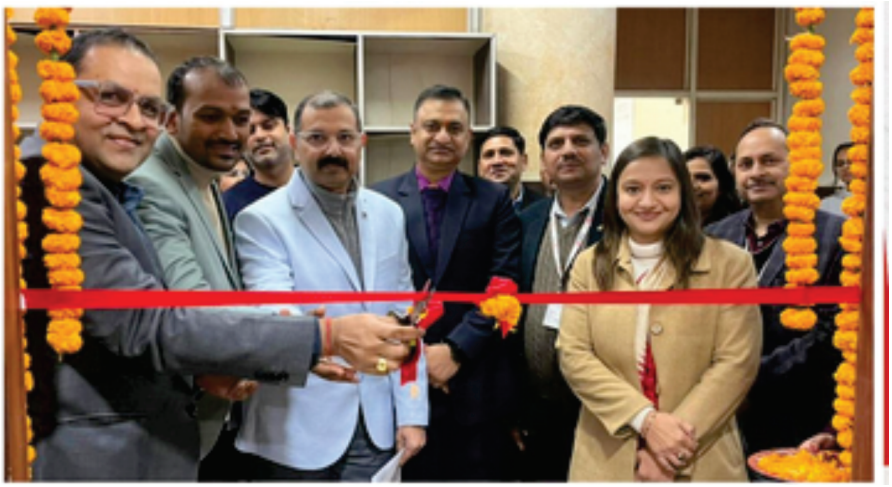
NIET proudly celebrates a series of outstanding placement achievements by its B.Tech CSE students, reaffirming the institute's strong industry connect and commitment to excellence. Our students have secured prestigious offers from Juspay, Vivnovation, GoDaddy, Razorpay, AMD, and Webkul, reflecting their dedication, technical expertise, and innovative mindset. These successes are a testament to NIET's industry-aligned learning ecosystem that nurtures talent, perseverance, and future-ready skills. As our students step into high-impact roles and global technology careers, they carry forward the NIET legacy of ambition and excellence.

We wish all our achievers continued growth and success in their professional journeys.

Think Placement. Think NIET.

A New Chapter Begins

NIET Greater Noida marks an exciting milestone with the inauguration of the Nest on 1 January 2026 for Coders (NFC) – a vibrant collaborative space where ideas take shape, code transforms into innovation, and students evolve into confident, future-ready technologists. Thoughtfully designed to foster curiosity, mentorship, and hands-on learning, NFC will serve as a hub where tomorrow's coders learn, build, and grow together. This initiative reflects NIET's continued commitment to nurturing talent, creativity, and industry-ready skills among its students.



Alumni Meet 2026, Hyderabad Chapter – A Celebration of Nostalgia and Connection

The Alumni Meet 2026 for the Hyderabad Chapter, held on 31 January 2026, brought together NIET alumni for an evening filled with nostalgia, networking, and meaningful interactions. The event provided a platform for alumni to reconnect with their alma mater, share professional experiences, and explore opportunities for collaboration. The gathering celebrated enduring relationships and strengthened the NIET alumni community.

Shaping the Future Workforce with AI

Under the AI Pre-Summit Events aligned with the India AI Impact Summit 2026, NIET, Greater Noida organized an AI-focused workshop titled "AI for the Future Workforce: From Data to Deployment" on 31 January. The initiative reflects NIET's commitment to the national vision of Atmanirbhar Bharat and Viksit Bharat, strengthening institutional engagement in advancing artificial intelligence across education, research, and industry. The workshop focused on AI skills and workforce readiness, with emphasis on data-centric AI and MLOps, reinforcing NIET's dedication to nurturing future-ready professionals for India's evolving AI ecosystem.

Republic Day 2026 Celebration

NIET proudly celebrated Republic Day 2026 with a spirit of unity, patriotism, and purpose. The campus resonated with collective pride as students, faculty, and staff came together to honour the values enshrined in the Constitution and reflect on their shared responsibility towards the nation. As we commemorate the strength of our democracy, NIET reaffirms its commitment to nurturing responsible, thoughtful, and future-ready citizens who contribute meaningfully to India's progress.

HR Roundtable 2026 | Bridging Academia and Industry to Build Tomorrow's Workforce

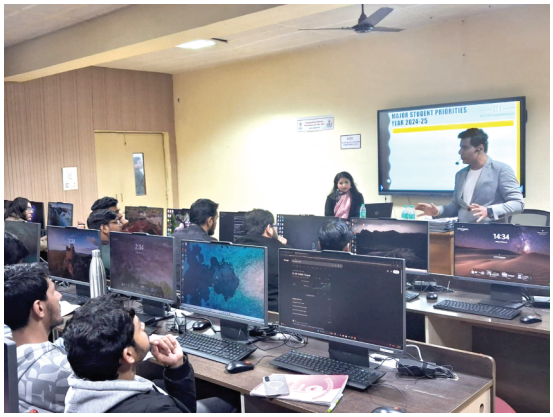
The HR Roundtable 2026 was organised by NIET Greater Noida at Holiday Inn, New Delhi on 10 January. The event focused on the theme "Bridging the Industry-Academia Skill Gap: Preparing Engineers for Tomorrow's Workforce." The event brought together industry leaders and academic experts to discuss critical skill gaps, curriculum alignment with evolving industry requirements, and strategies for developing future-ready engineers. The session was moderated by Mr. Harsh Awasthi, Assistant Professor, School of Management. The insightful deliberations reinforced NIET's commitment to strengthening industry collaboration and enhancing employability-oriented education.

NIET Among India's Top Institutions in Internshala Annual Rankings 2025

NIET Greater Noida is proud to be recognized in the Internshala Annual Rankings 2025, securing All India Rank 10 among 600+ colleges and Zonal Rank 2 among 120+ colleges. This achievement reflects our strong commitment to industry exposure, meaningful internships, and career-ready education. We extend our heartfelt gratitude to our students, faculty, and industry partners for contributing to this milestone and strengthening NIET's legacy of excellence.

Shaping Global Careers – Career Mindset and Higher Study Workshop

The Technex Club, Department of Data Science, NIET Greater Noida, in collaboration with Beyond Immigration, organised a Career Mindset and Higher Study Workshop for undergraduate students on 30 January 2026. The session focused on developing a positive career mindset, highlighting the importance of self-belief, goal clarity, and disciplined efforts for long-term success. Students were also guided on higher education opportunities abroad, including courses, entrance examinations, eligibility criteria, and career prospects. The interactive workshop enhanced students' awareness and supported informed academic and career decision-making.



Building Cyber Expertise – AICTE-ATAL FDP on Ethical Hacking and Cyber Security

The Departments of Computer Science and Data Science, in collaboration with IQAC and AICTE–ATAL EduSkills, organised an offline Faculty Development Program on Ethical Hacking from 05 to 10 January 2026. The program, conducted by cybersecurity expert Mr. K. Bala Sai Kumar, provided faculty members with comprehensive training in cybersecurity fundamentals, ethical hacking methodologies, vulnerability assessment, and penetration testing tools. The FDP combined conceptual learning with extensive hands-on practice on tools such as Kali Linux, Nmap, Burp Suite, Nessus, SQLmap, and Metasploit. Participants also explored emerging areas including bug bounty programs, digital forensics, AI-driven cybersecurity, and automation techniques. The program strengthened faculty expertise and enhanced their capability to integrate cybersecurity concepts into teaching, research, and student mentoring.

Tableau Lab Inauguration – Empowering Data-Driven Learning and Innovation

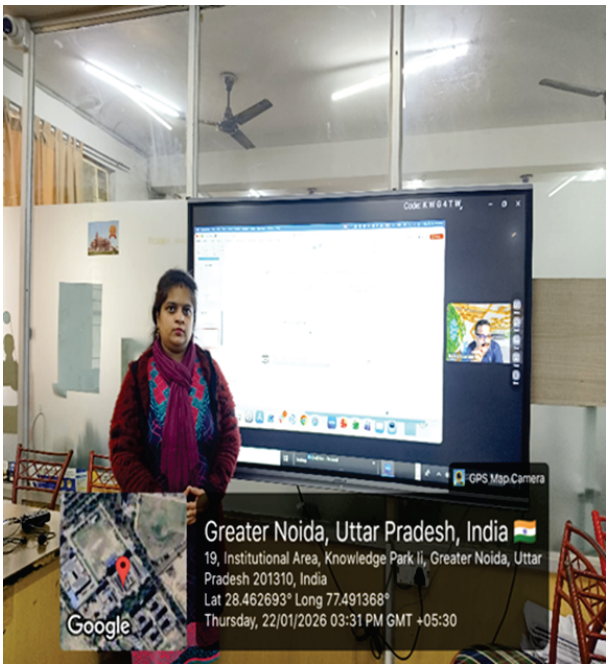
The Department of Data Science, in collaboration with the Technex Club, organised the inauguration of the Tableau Lab on 19 January 2026. Coordinated by Dr. Ashish Chakraborty, Mr. Sovers Singh Bisht, Ms. Nisha Verma, Ms. Anamika Choudhary, and Ms. Sakshi Sharma, the event marked the launch of a dedicated platform for strengthening skills in data analytics and visualisation. Resource persons Mr. Abhishek Jain and Ms. Vishakha Mittal shared insights into industry trends, certifications, and career opportunities in data science and business intelligence. The lab aims to provide hands-on experience through real-world datasets and projects, enhancing students' analytical and decision-making abilities. The initiative also strengthens industry-academia collaboration and promotes skill-based, future-ready learning.

Hands-on Workshop on ARM Cortex-M Microcontrollers

The School of Electronics and Communication Engineering organised a hands-on training workshop on ARM Cortex-M Microcontrollers using STM-32 and KL25Z Boards on 17 January 2026. The session was conducted by Mr. Vinay Pratap Singh, Assistant Professor (CSE–IoT), with active participation from faculty members and ECE students. The workshop focused on practical learning and real-time implementation, helping participants understand modern embedded systems and align their skills with emerging industry technologies.

Snowflake Training Session Introduces CSE Students to Cloud Data Certification Pathway

The Department of Computer Science & Engineering, in collaboration with ICT Academy, conducted an online Snowflake Program Training Session on 22 January 2026. The one-hour session oriented students to the program structure, learning roadmap, certification pathway, and upcoming activities on the Snowflake platform. It highlighted the growing importance of cloud data technologies in industry. Students participated actively and gained clarity on expectations and milestones. The session was coordinated by Ms. Sana Anjum and Ms. Shivani Sharma, reinforcing the department's commitment to industry-aligned learning initiatives.



Guest Lecture on Computer Vision

The Institution's Innovation Council organized a Guest Lecture on Computer Vision at NIET in Room 401, Block D, Plot No. 19, for students of the Department of CSE / CSE(R) / M.Tech (Integrated). The session was delivered by Dr. Preeti Gera, Associate Professor, Department of Computer Science & Engineering, with 57 students in attendance.

The lecture covered fundamental Computer Vision concepts including image processing, object detection, facial recognition, and real-time vision applications. Supported by practical examples and case studies, the session also highlighted current industry trends in AI-driven vision systems. An interactive discussion further strengthened student understanding and encouraged them to explore projects and research in AI and Machine Learning. The event was coordinated by Dr. Preeti Gera and Mr. Ibrar Ahmed.

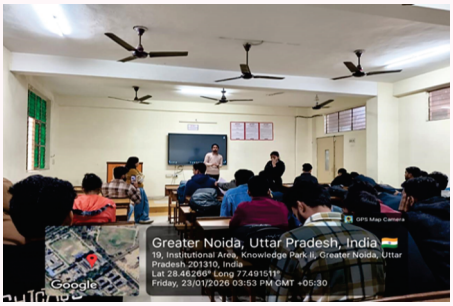
Clothes Donation Camp Organized Under Helping Hands 2026

Noida Institute of Engineering and Technology organized a Clothes Donation Camp under its Social Outreach Program, Helping Hands on 27 January 2026, to support underprivileged communities. The initiative aimed to provide usable clothing to those in need while fostering awareness among students about community service, social responsibility, donation, reuse, and humanitarian values. Coordinated by Ms. Rashmi Bhardwaj, the drive saw active participation from students, faculty, and staff. Collection boxes were placed across the campus, and volunteers managed the sorting, quality check, packing, and distribution of garments, including winter and children's wear. The collected clothes were distributed to nearby villages, slum areas, and shelter homes. Around 20–25 donors contributed to the cause. Key participants from the CSE Department included Dr. Kumud Saxena, Dr. Vivek Kumar, Dr. Rashmi Sharma, Dr. Hitesh Singh, Ms. Aditee Mattoo, Ms. Rashmi Bhardwaj, Ms. Swati, Dr. Megha Gupta, Mr. Sanjay Nayak, and Mr. Shamshad Ali.

Innovation Interaction 3.0 Promotes Technology Dialogue

The Department of Computer Science and Engineering at Noida Institute of Engineering & Technology (NIET), Greater Noida, organized an interactive academic event titled Innovation Interaction 3.0 on 23 January. The program aimed to create a platform for students to exchange perspectives on emerging and existing technologies while encouraging critical thinking and awareness of technological impact and innovation. Students engaged in thoughtful discussions on topics such as artificial intelligence, blockchain, augmented reality, and sustainable technologies.

The event was inaugurated by Prof. Kumud Saxena. Dr. Mohd. Nazim served as Resource Person and Faculty Coordinator, supported by faculty coordinators Ms. Vaishali Mishra, Ms. Dipti Singh, Ms. Annu Nagar, and Ms. Roshni Prasad. Student coordinators included Pavan Kumar Seth, Abhishek Singh, and Alim Khan. The session concluded with certificate distribution and a vote of thanks.



Shreen X Ignites Creativity and Cultural Spirit

The School of Computer Science & Emerging Technology, NIET Greater Noida, organized Shreen X, a vibrant cultural event on 30 January 2026 at the Auditorium, B Block. Held from 3:20 pm to 5:00 pm, the program provided a dynamic platform for students to showcase talent across dance, singing, ghazal, instrumental music, rap, skits, and beat-boxing.

With 24 participants, the event celebrated creativity, confidence, and cultural diversity through energetic solo and group performances. Faculty coordinators Mr. Dhruv Talreja, Ms. Roshni Prasad, and Mr. Rajat Sharma, along with student coordinators and volunteers, ensured smooth execution.

Pawan won First Prize for Beat Box, followed by Arin (Guitar) and Aastha (Dance). The event concluded on a high note, leaving a strong impression of artistic excellence and student engagement.

One Week Faculty Development Programme on Generative AI

The Department of CSE – Artificial Intelligence and Machine Learning organized a one-week Faculty Development Programme (FDP) on "Generative AI" from 5 to 10 January 2026 at Lab No. 421-B, Block B, NIET. The programme, led by Mr. Anant Verma, focused on recent advancements, tools, and applications of generative AI. The FDP enhanced participants' understanding of AI-driven content generation, research opportunities, and the effective integration of generative technologies into classroom teaching. The initiative received positive feedback and reflected the department's commitment to continuous faculty development.

AIML Students Shine at Global AI Summit Hackathon

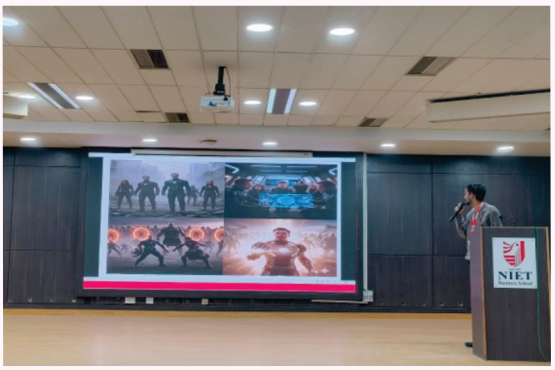
The Department of Artificial Intelligence and Machine Learning (AIML) proudly congratulates Prakhar, Shyam, Pranav, and Arpit Prajapati, third-year (VI semester) students, for securing the Second Runner-Up position at the Global AI Summit Hackathon organized by GLA University. The team won a cash prize of ₹15,000 for their innovative project, Civic Lens AI, developed with a strong focus on social impact. The project was further enhanced by converting the web-based solution into a native mobile application, improving accessibility and real-world usability. This achievement reflects the students' technical excellence, innovation, and commitment to socially relevant AI solutions.

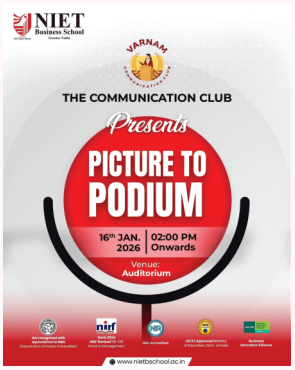
AD MAD SHOW – Finale: Celebrating Creativity and Marketing Excellence

The NIET Business School, through Pratidhwani – The Marketing Club, successfully organized the AD MAD SHOW – Finale on 17 January 2026 at the Auditorium. Convened by Dr. Silky Gaur, the event celebrated students' marketing prowess by providing a vibrant platform to apply theoretical concepts creatively. Shortlisted teams showcased innovative advertisements through skits, role plays, jingles, and storytelling, demonstrating strong branding and communication skills. With enthusiastic participation from 45 students, the event enhanced creativity, persuasive communication, teamwork, and quick decision-making. The finale offered an engaging experiential learning opportunity, reinforcing the importance of innovation and practical exposure in marketing education.

Picture to Podium: Enhancing Articulation through Visual Expression

The NIET Business School, through Varnam – The Communication Club, successfully organized the Picture to Podium activity on 16 January 2026 at the Auditorium. Convened by Dr. Silky Gaur, the event encouraged students to enhance their public speaking and spontaneous communication skills. Participants delivered one-minute impromptu speeches by interpreting visual prompts creatively. With active participation from 18 students, the activity strengthened confidence, storytelling ability, critical thinking, and time management. The event proved to be an engaging platform for fostering effective communication and overall personality development.





SPSS Certification Workshop: Building Data Analysis Competence

NIET Business School, Greater Noida, organized a certification workshop on Data Analysis using SPSS on 22 and 23 January 2026 as part of Navodaya Fresher 2K25. The offline programme witnessed active participation from 134 students and focused on developing practical skills in data handling, statistical analysis, and research methodology. Through interactive lectures, hands-on sessions, and real-time case studies, participants gained exposure to descriptive and inferential statistical techniques using SPSS. The workshop enhanced analytical thinking, research capabilities, and employability by equipping students with industry-relevant data analytics skills.

GD Bootcamp: Pathways to Profession – Preparing Future Corporate Leaders

The Karmic Club (HR Club) of NIET Business School successfully organized GD Bootcamp: Pathways to Profession in two phases on 16 December 2025 and 19 January 2026. The bootcamp engaged 185 PGDM students and focused on enhancing communication, critical thinking, teamwork, and leadership skills essential for corporate success. Participants took part in structured group discussions on contemporary topics, evaluated by expert panels. The advanced second phase further assessed leadership presence and group influence. The initiative significantly strengthened students' placement readiness and professional confidence.

A Milestone Moment: Inauguration of Takshshila Library, Spandan Sports Facility & Certificate Ceremony

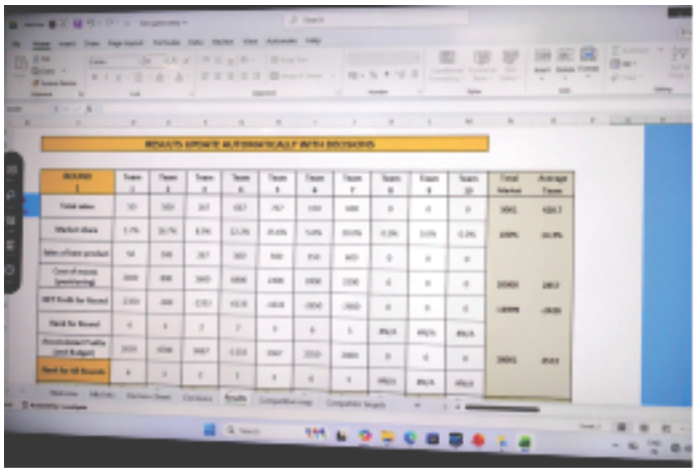
On 17th January 2026, NIET Business School celebrated a landmark occasion with the inauguration of the Takshshila Library and the Spandan Indoor Sports Facility, reaffirming its commitment to academic excellence and holistic development. The Programme commenced with a traditional lamp-lighting ceremony led by esteemed dignitaries, followed by inspiring address from the Chairperson and Managing Director, who emphasized the importance of reading habits, disciplined learning, and career readiness in the AI era. The event also featured a Certificate Distribution Ceremony, recognizing students' academic and co-curricular achievements. The occasion witnessed enthusiastic participation from faculty and students, marking a proud and memorable day for the institution.

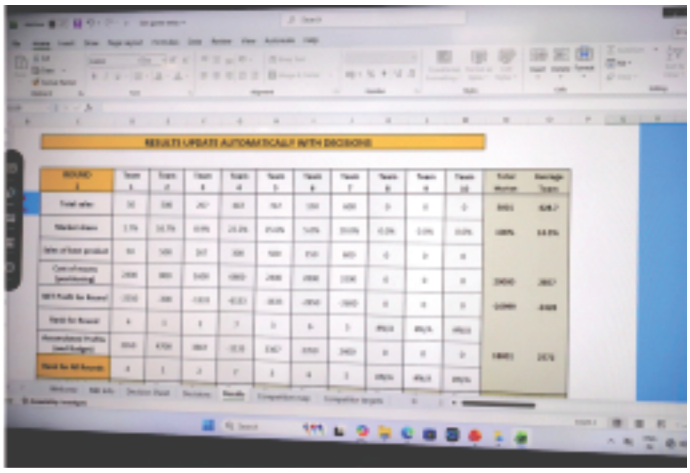
Towards Deeper Learning Among Gen Z: Empowering Faculty through Innovative Pedagogy

NIET, in collaboration with the Indo Gulf Management Association (Dubai), successfully organized a Faculty Development Programme titled “Towards Deeper Learning Among Gen Z – Empowering Faculty with Innovative Management Training Practices.” The Programme brought faculty members together for insightful discussions on contemporary teaching approaches and learner engagement. A key highlight was the deliberation on the “Curious Case of Bu Rashid,” which examined modern leadership practices, organizational culture, and the shift from hierarchy to skill-based leadership. Through case-based reflection and collaborative dialogue, participants explored strategies to promote critical thinking, applied learning, and deeper classroom engagement among Gen Z students, reinforcing the institution's commitment to future-ready management education.

Defend Your Market Play: Turning Data into Strategic Decisions

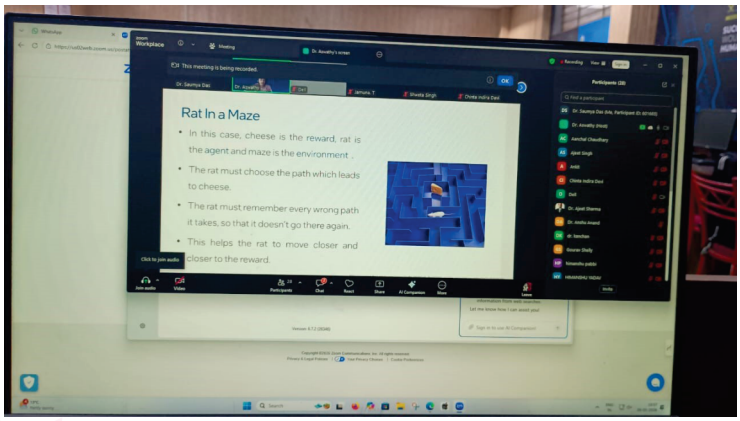
NIET, Greater Noida, in association with the Indo Gulf Management Association (Dubai), organized an engaging student strategy simulation titled “Turning Data into Decisions – Defend Your Market Play” on 28th January 2026. The activity transformed the classroom into a competitive business environment where students, working in teams, analyzed datasets, interpreted market signals, and formulated strategic responses within strict time limits. Teams presented and defended their market decisions, closely replicating real-world business challenges and competitive pressures. The simulation significantly enhanced students' analytical thinking, strategic decision-making, teamwork, and problem-solving skills. Overall, the activity offered an immersive experiential learning opportunity, effectively bridging management theory with practical application.





AI for Future Workforce: Empowering Faculty through Industry-Driven AI Training

The Departments of CSE (Artificial Intelligence) and CSE (AI & Machine Learning) at NIET, Greater Noida, in association with Intel–Lenovo and the Intel Digital Readiness Programme, successfully conducted an online Train-the-Trainer (TTT) Faculty Development Programme from 5–9 January 2026. Led by Dr. Aswathy Ravikumar, the Programme focused on emerging domains such as AI, ML, Data-Centric AI, Generative AI, Computer Vision, and NLP. The initiative enhanced faculty expertise through industry-aligned tools, practical methodologies, and collaborative learning, strengthening teaching, research, and curriculum development for future-ready workforce preparation.



Hands-on Session on Full Stack Development: Building End-to-End Web Applications

The Department of CSE (AI) at NIET, Greater Noida, successfully organized a Hands-on Session on Full Stack Development on 16 January 2026 under the banner of the EmergeX Technical Club. The offline session, attended by 67 students, provided practical exposure to frontend, backend, and database integration through live demonstrations and interactive exercises. Guided by faculty coordinators Mr. Yaduvir Singh and Ms. Shweta Singh, and led by student coordinators, the session promoted experiential and peer learning. Participants enhanced their coding confidence, problem-solving abilities, and understanding of real-world web application workflows, strengthening career readiness in software development.

From Coding to Prompting: A Shift in Developer Skills

NIET organized an Institute-level expert talk titled “From Coding to Prompting: A Shift in Developer Skills” on 31 January 2026, coordinated by Dr. Irphan Ali. Ms. Bharti Singh, Principal Project Engineer at CRIS, shared valuable industry insights on Generative AI, prompt engineering, and ethical AI practices. The session emphasized evolving developer roles, human–AI collaboration, and career readiness. With active participation from 69 attendees, the event successfully bridged academia and industry, fostering an AI-ready workforce aligned with the vision of Viksit Bharat

Student Achievement at National Level

Students from the department secured a winning position at Smart India Hackathon (SIH) 2025 – Software Edition. The team "Knights" developed HerbalTrace, a blockchain-based solution for end-to-end traceability of Ayurvedic herbs using Hyperledger Fabric, QR verification, smart contracts, and geo-tagging. This system ensures transparency, authenticity, regulatory compliance, and consumer trust, highlighting the students' strong technical and problem-solving capabilities at the national platform.

Expert Engagement in 24-hour Hackathon at the Global AI Summit

Dr. Arun Kumar Tripathi, Dean, School of Emerging Technologies, served as a Jury Member for the 24-hour Hackathon at the Global AI Summit, held on 24–25 January 2026. The event was organized by GLA University, Greater Noida, in collaboration with TATA Advanced Systems, and featured expert panel discussions, an intensive hackathon, and idea-pitching sessions promoting innovation, collaboration, and responsible AI adoption.

SCHOLARSHIP SPOTLIGHT

Department of Artificial Intelligence (AI)

Mr Inam Ul Haq
Assistant Professor

Published the following book chapters in Deep Quantum Neural Networks: AI for 6G/7G Communication Systems (Springer Nature, Scopus indexed)

- *AI and Quantum-Driven IoT Frameworks for Sustainable 6G/7G Smart Homes*
- *Integrating Blockchain and Metaverse for Next Generation Smart Healthcare Networks*
- *Hybrid Quantum–Classical Learning Architectures for 6G/7G Edge Intelligence*
- *Quantum Convolutional Neural Networks for Intelligent Spectrum Management in 6G/7G*
- *Emerging Trends in Blockchain Metaverse for Intelligent Sensor Network Applications*

Published a research paper titled Integrating Node Attributes and Network Topology for Machine Learning-Based Link Prediction in the journal Discover Computing indexed in SCI.

Department of Artificial Intelligence & Machine Learning (AIML)

Published a conference paper titled “Enhanced Brain Tumor Classification Using Custom CNN and Hyperparameter Tuning” in IEEE Xplore (SCOPUS). This study develops a deep learning model using MRI data to classify brain tumors into four categories, supporting early diagnosis and improved treatment planning.

Published a patent titled “Token Based Session Enabled Algorithm for Predictive Analytics for Cloud Based Load Balancing.”

Dr Sonia Arora
Assistant Professor & Dy. Head

Dr Divya Mishra
Associate Professor

Authored a research chapter titled “Blockchain Driven Generative AI: Ensuring Data Provenance and Model Integrity” published by Springer as part of the AISMA-2025 proceedings. This paper explores how blockchain technology can enhance transparency, security, and trust in generative AI systems by ensuring reliable data provenance and model integrity.

Ms Purnima Pal

Assistant Professor

Published a book chapter, "Challenges and Ethical Considerations in Digital Twin HR Systems" in the book "HR 5.0 Integration: Unleashing the Potential of the Digital Twin Revolution" published by **Emerald.**

Ms Suman Rani

Assistant Professor

Authored a book chapter titled **"Automated KOA Detection in X-ray Images Using Convolutional Neural Networks,"** presenting a CNN-based approach for early and accurate identification of knee osteoarthritis from X-ray imagery published by **Springer.**

Ms Shweta

Assistant Professor

Published the research paper "A Hybrid Approach for Predicting Maternal Health Risks: An Ablation Study Analysis," published by **IEEEXplore.** This paper presents a robust hybrid framework integrating multiple models, supported by ablation analysis and performance evaluation, to enhance maternal health risk prediction accuracy and clinical decision support.

Department of Computer Science

Dr Kanika Singhal

Assistant Professor

Co-authored a book **Data Structures and Algorithms Using C,** along with Mr Sanjay Kumar, Ms Pooja Kapila and Dr Nisha Pal, with ISBN Paperback 978-93-7120-654-9 and E-book 978-93-7120-039-4, published by BFC Publication. The book is designed to provide a strong foundation in data structures and algorithms using C, combining: Clear theoretical explanations, Real-world examples, Well-structured C programs, practice questions and exercises for learners at different levels.

A patent titled **Smart Inventory Management System Using Internet of Things Devices** was filed and published successfully in the **Indian Patent Office (IPO), India under the Governing Act: The Patents Act, 1970** under the domain of Computer Science, Internet of Things, Smart Retail Systems, Inventory Management & Supply Chain Automation and Edge Computing & Sensor Fusion. The patent presents an **IoT-enabled Smart Inventory Management System** that integrates RFID, AI-based machine vision, precision weight sensors, and ultrasonic sensing grids to enable **real-time, automated stock monitoring**. Leveraging **ESP32-based edge computing,** the system achieves **sub-500 ms decision-making,** supports offline data caching, and ensures secure cloud synchronization.

The following inventors contributed:

Ms Nupur Tripathi

Assistant Professor
Business School

Dr Sangeeta Arora

Professor
Department of CS

Ms Bharti Kaushik

Assistant Professor
Department of CS

Dr Divya Singhal

Assistant Professor
Department of CS

Mr Anshul Varshney

Assistant Professor
Department of CS

Ms Nishu Niharika

Assistant Professor
Department of CS

Mr Apoorv Jain

Assistant Professor
Department of CS

Dr Arun Kr Tripathi

Professor & Head CS
Dean, SCSET

Department of Cyber Security

Dr Tripti Sharma

Professor & Head

Published a paper titled "Enhancing Internet of Things Security: A Federated Learning based Hybrid Model with Graph Neural Networks and Transformers" **in the SCI Q2 journal International Journal of Communication Systems on January 26, 2026.** The work advances secure, intelligent frameworks through hybrid learning models.

Authored the book Blockchain in Digital Watermarking, published by IGI Global on January 23, 2026, contributing to research in blockchain security and digital media protection.

Published a paper titled "Enhanced Detection and Mitigation of HELLO Flood Attacks in IoT Networks Using Modified Deep Neural Networks and Optimization Algorithms" in Discover Internet of Things (Springer Nature), a Scopus-indexed journal, on January 23, 2026.

Published another Scopus-indexed ISCON publication, "Unmasking Electoral Finance: The ElectraChain Blockchain Solution," was released on January 23, 2026, focusing on blockchain applications in electoral transparency.

Presented a paper titled "Detection of DDoS Attack Using Machine Learning Techniques" at the Scopus-indexed International Conference on Information Systems and Computer Networks (ISCON) on January 23, 2026.

Dr Ajeet Sharma
Assistant Professor

Department of Data Science

Ms Smriti Jaiswal
Assistant Professor

Published the following two chapters in the book Multilevel Quantum Metaheuristics Applications in Data Exploration (SCOPUS Indexed) published in Science Direct, ISBN: 9780443331367

"Multilevel quantum metaheuristics: applications in data exploration"

"Task allocation and scheduling"

Department of CSE (IoT)

Dr Mamta Chauhan
Assistant Professor

presented her research paper at the 2nd International Conference on Deep Learning and Visual Artificial Intelligence and served as a reviewer for the 3rd International Conference on Recent Development in Cyber Security (ReDCySec-2025), demonstrating her active involvement in research and academic excellence.

Ms Neha Bhati
Assistant Professor

Published a paper titled "A Transfer Learning-Driven Fine-Tuning of YOLOv10 for Improved Brain Tumor Detection in MRI Images" in Scientific Reports (Nature Publishing Group), indexed in SCI. The study contributes to advancements in AI-based medical diagnostics.

Dr Ankur Sisodia

Assistant Professor

Delivered a session as a speaker at the National Workshop on Emerging Trends in Artificial Intelligence.

Mr Mushtaq Ahmad Rather

Assistant Professor

Authored two book chapters published by Springer Nature in *Deep Quantum Neural Networks.* His research focuses on Hybrid Quantum–Classical Learning Architectures and Quantum Convolutional Neural Networks for 6G/7G communication systems, contributing to advancements in quantum computing and next-generation communication technologies.

Mr Vinay Pratap Singh

Assistant Professor

Served as the resource person for a workshop on ARM Cortex-M Microcontrollers for ECE faculty. He conducted training on ARM architecture and provided hands-on exposure using STM-32 and KL25Z boards, enhancing participants' understanding of embedded system applications.

Department of Information Technology (IT)

Dr Ritesh Rastogi

Professor & Head

Published a research paper titled **"Development and Comparative Analysis of a GAA Nanosheet FET Across Diverse Space Charge Region Materials for Nanoscale Applications"** in Micro and Nanostructures, SCOPUS Q2 Journal. The study presents a comparative analysis of 10 nm FinFET and Nanosheet FET, and evaluation of the key performance parameters, including Vth, ION/IOFF, DIBL, SS.

Published a UK patent (January 16) titled "An Artificial Intelligence Enabled Smart Wearable System for Real-Time Women Safety Monitoring," contributing to advancements in AI-driven emotion analysis and women's safety technologies.

Published a research paper titled “Implementation of Advanced Machine Learning Algorithm for Predictive Maintenance in Industrial Internet of Things Networks” (Taylor & Francis, Scopus, 19 Jan 2026), focusing on predictive maintenance to enhance manufacturing efficiency.

Published a paper titled “Diagnosis and Tau Burden Prediction in Alzheimer's Disease Via Non-invasive Biomarkers and Gradient Boosting Models” (Taylor & Francis, Scopus, 19 Jan 2026), proposing non-invasive methods for tauopathy prediction.

Published another Scopus-indexed Taylor & Francis paper, “Self-organizing Particle Swarm Optimization for Multi-objective Resource Allocation in Massive MIMO-enabled 5G Networks” (19 Jan 2026), presents an SOPSO framework for efficient 5G resource allocation.

Additionally, “Adaptive Region-based Image Segmentation and Classification Using Transfer Learning for Agricultural Disease Detection Systems” (Taylor & Francis, Scopus, 20 Jan 2026) introduces an early-stage agricultural disease detection framework.

Mr Ankur Chaudhary
Assistant Professor

Secured two Indian patent publications, showcasing innovation across AI, cybersecurity, and industrial automation – ML Based Driver Drowsiness Detecting Device (published January 9, 2026) and An Optimized VLSI Architecture and FPGA-Implementable System for High Throughput and Low Power DES Cryptographic Processing (published January 2, 2026). These contributions highlight practical, technology-driven solutions addressing safety and secure communication.

Department of Languages

Dr Yusuf Mehdi
Associate Professor & Dy. Head

Has been inducted into the Board of Editors of Dialogic Pedagogy: A Journal for Studies of Dialogic Education, an internationally recognised peer-reviewed journal dedicated to advancing research in dialogic education, language, and pedagogy. The journal holds strong academic standing and is indexed in Scopus and the Web of Science (Emerging Sources Citation Index – ESCI). It is currently ranked in the Q2 quartile in relevant subject categories according to Scopus (SCImago Journal Rank – SJR: 0.284) and maintains an H-index of 9.

Dr Shilpi Saxena
Associate Professor

Published a book chapter titled “Voice of the Voiceless 'Gauri' in Mulk Raj Anand's The Old Woman and the Cow: A Depiction of Women's Identity” in an edited volume Ecofeminist Voices: Reimagining the Narratives of Gender and Nature in a Changing World, ISBN: 978-93-91456-93-1, published by Aligarh Muslim University, Aligarh.

Dr Anjali Pundhir
Associate Professor

Dr Nandini Kalita

Assistant Professor

Authored a book chapter titled “Becoming Assamese: Language, Identity and Anxiety” in the book Vernacular Encounters : Politics and Possibilities, edited by Nishat Zaidi and Kashish Dua, London: Routledge.

Dr Krishna Kumar

Assistant Professor

Presented the following papers in the 68th All India English Teachers' Conference organised by the Department of English and Foreign Languages, Mahatma Gandhi Kashi Vidyapith, Varanasi

“Female Adolescence and Socio-Cultural Journey in Alice Munroe's Lives and Girls and Women”

“A Socio-Cultural Study of Vikas Sharma's Honey Trap”

Department of Mechanical Engineering

Dr Anant Prakash Agrawal

Assistant Professor

Dr Rajeev Kumar

Assistant Professor

Dr Shahazad Ali

Assistant Professor

Dr. Anant Prakash Agrawal, Dr. Rajeev Kumar, and Dr. Shahazad Ali from the Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, were granted a UK design patent titled Artificial Intelligence Based Heat Exchanger for Cooling Bioreactors. The patent was awarded by the Intellectual Property Office, UK.

Dr Anant Prakash Agrawal

Assistant Professor

Published a research paper titled “Development of High-Performance Areca Sheath Fibre Preform-Reinforced Epoxy Composites for Enhanced Mechanical Properties” in the Journal of Composite Materials, indexed in SCIE (Science Citation Index Expanded).

Dr Abdhesh Kumar

Assistant Professor

"Development and Characterization of AA7075/ZrO_2/Gr Hybrid Composites through Friction Stir Additive Manufacturing Process" focuses on advanced solid-state additive manufacturing for developing high-strength, wear-resistant aluminum hybrid composites.

Published a research paper titled "Optimization of FSAM Parameters for Tensile Strength and Hardness of AA7075/9.4% ZrO_2/0.6% Gr Composite Using RSM Technique" in Progress in Additive Manufacturing, indexed in ESCI (Q1) with an Impact Factor of 5.4.

Dr Anand Kushwah

Assistant Professor

Published a research paper titled "Hybrid Solar–Phase Change Material Energy-Storage Systems for Low-Carbon Energy Infrastructure: Design Strategies, Performance Insights, and Sustainability Pathways" in Energy Conversion and Management: X (Elsevier), indexed in Web of Science, with an Impact Factor of 7.6.

Students' Achievements

Ms Anshika Srivastava & Ms Janhavi Singh
secured 1st Runner-Up
at the Global AI Summit Hackathon 2026
for their healthcare platform
Jeevan Raksha.

Ms Sakshi Singh, a second-year B.Tech (IT) student, has launched a startup titled Printable under the guidance of the Department of Information Technology. The venture focuses on designing personalized stationery products aimed at enhancing productivity based on individual needs and lifestyles. The startup is officially registered under Udyam (MSME), reflecting her entrepreneurial initiative and innovation.

Monthly Momentum: A Note from the Editors

Dear Reader

The successful launch of our Monthly Newsletter has been truly pulsating and deeply encouraging. The enthusiastic response to the inaugural edition of Pulse has fostered a strong sense of connection among our readers and reaffirmed the shared platform this publication represents. While the first issue presented a consolidated overview of three months, the second edition adopts a sharper focus – capturing the vibrancy, momentum, and defining milestones of January 2026.

This issue reflects a month of remarkable synergy – where theoretical knowledge meets real-world application. From impressive placement achievements with industry leaders such as Juspay and GoDaddy, highlighting the calibre and preparedness of our students, to the launch of the Nest for Coders, we are not merely teaching technology – we are nurturing an ecosystem of innovation and problem-solving. Complementing these milestones, several technology-driven initiatives, including the AI workshops and HR Roundtable 2026, underscore our commitment to emerging trends, digital transformation, and future-ready learning.

The edition also brings forward significant research initiatives that showcase academic growth, innovation, and scholarly contributions, further strengthening our research ecosystem and intellectual culture.

A special highlight of this month is the vibrant 'Republic Day' celebration – marked by pride, unity, and a deep sense of national spirit. The occasion served as a meaningful reminder of our constitutional values and shared responsibilities, bringing the campus community together in a celebration of diversity, freedom, and collective purpose.

As Pulse evolves from a quarterly reflection into a timely chronicle of campus life, we extend our sincere gratitude to our readers for their continued encouragement and engagement. We look forward to carrying this journey ahead—documenting achievements, amplifying voices, and celebrating the moments that shape our collective growth.

Building the Architects of Tomorrow

Best regards
The Editorial Team
Pulse, NIET

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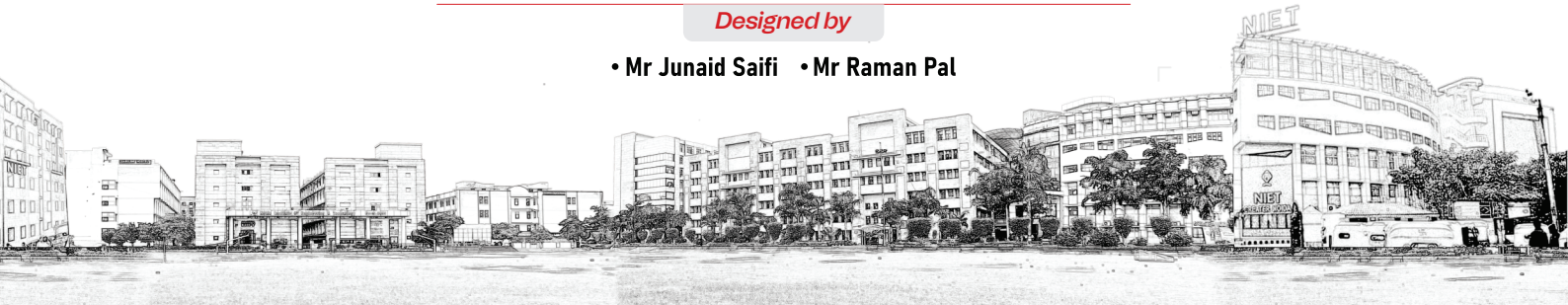
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