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Noida Institute of Engineering & Technology, Greater Noida

Shaping Tomorrow's Leaders

Dr Arun Kumar Singh

Director, NIET Business School

Outlines the Strategic Roadmap

NIET Business School is steadily making a presence in the world of academia. What makes the program unique and meaningful for students?

In our 25 years of academic excellence under the stewardship of the City Educational and Welfare Society, we have observed that many institutions fall into the trap of mistaking curricular 'coverage' for actual 'learning'. At NIET Business School, an exclusive business school, we made a definitive choice early on to design our Post Graduate Diploma in Management (PGDM) program around what genuinely builds a resilient, corporate-ready manager.

Our program holds the highest tier of regulatory credentials: it is approved by the AICTE & Ministry of Education, Govt. of India, NBA Accredited and recognized by the Association of Indian Universities (AIU) with equivalence to an MBA. This prestigious AIU recognition is a massive structural advantage for our students, facilitating their pathway to pursue higher education or a Ph.D. from any university in India and abroad, while making them fully eligible for central/state government, PSU, and banking sector jobs.

However, credentials simply grant access; they do not dictate transformation. What truly distinguishes us is our AI-aligned curriculum and industry-driven courses. From the 3rd trimester onwards, we offer dual specializations across six futuristic domains: Marketing, HR & OB, Finance, Business Analytics, Supply Chain Management and Logistics, International Business, and NexGen Startup & Entrepreneurship.

The crown jewel of our academic distinctiveness is the deep integration of our flagship **ACE (Aptitude and Competency Enhancement) and Digital Leadership Certification** directly into the credit structure. We have partnered with best-in-class corporate body & trainers to deliver domain-based certifications. By intertwining core management principles with cutting-edge digital leadership, our students do not view technology as a supportive tool they leverage it as a primary strategic weapon. When our corporate partners extend premium pre-placement offers to our students well before their final trimester, we do not view it as a stroke of luck; it is the calculated validation of our architectural design.

In today's rapidly changing professional world, how is the institute preparing students to meet the demands of industry, leadership, and digital transformation?

The half-life of professional skills is shrinking faster than any standard academic curriculum committee can adapt. Rather than just updating static syllabi, our strategic approach has been to build structural, operational agility directly into our system through our specialized **A.G.I.L.E Certification** framework. This program focuses on five transformative pillars: Advanced Business Intelligence, Growth-Oriented Strategies, Innovative Data-Driven Decision Making, Leadership in AI-Powered Business, and Excellence in AI & Digital Transformation. To achieve this level of preparedness, we execute a rigorous three-pronged strategy:

- **Advanced Laboratories & Digital Fluency:** We have embedded digital fluency and operational technology across all specializations. This is not confined to standard textbooks. Our campus features specialized infrastructure including our data center.
- **Structured Corporate Immersion & Core Upskilling:** We run corporate immersion tracks that are deeply integrated into assessments. This is driven by **NIPUN (Nurturing Industry Preparedness & Upskilling for New Age Leaders)** and **POWER (Personality Enrichment, Oratory Skills, Writing Skills,** Excel for Managers, Research Skills). Backed by our Language Lab and foreign language training, students complete practical certifications alongside their academic terms, ensuring their operational execution matches their conceptual insights.
- **Leadership as an Active Competency:** We treat leadership as a continuous running thread across our two-year program through our specialized **PROPEL** initiative, which drives Professionalism, Resilience, Ownership, Productivity, Engagement, and Learning. Our extensive ecosystem features 12 specialized, student-driven clubs—such as *Prati Dhwani* (Marketing), *Vitt Arth* (Finance), *Pravah* (Supply Chain), and *Anveshak* (Analytics) ensuring that tactical execution, research, and corporate social responsibility (*via Swavlamban*) are practiced daily.

How do you envision the future of management education in India over the next five years?

Looking ahead at the upcoming five-year horizon, management education in India is facing structural evolution. We anticipate three irreversible macroeconomic shifts that will define the dominance of top-tier business schools:

- **The Unbundling of the Management Degree:** The era of relying solely on a generic degree is ending. Forward-thinking professionals are demanding stackable, modular credentials. This is precisely why we designed our **NIRMAAN** ecosystem and domain-based certifications ensuring our students graduate not only with a premium PGDM but with an integrated portfolio of industry certifications from global tech and consulting leaders.
- **Hyper-Integration of Institutional Delivery Tech:** Technology has shifted from being a mere topic of discussion to serving as the primary infrastructure of educational delivery. At NIET Business School, we actively leverage data analytics, adaptive learning architectures, and a state-of-the-art library featuring more than 10,000 books, journals, e-journals, and digital tools to deliver highly personalized learning pathways.
- **Ecosystems for Innovation & Entrepreneurship:** The future belongs to job creators, not just job seekers. We have positioned ourselves ahead of this curve by building a robust infrastructure for **Entrepreneurship @ NIET**, powered by our in-house Technology Business Incubator, MSME support systems, and the AICTE Idea Lab.

Furthermore, our prestigious institutional memberships in premier national and international bodies like **AIMA, AIMS, NHRDN, NIPM and AACSB** ensure that we remain at the forefront of global policy, international standards, and business school evolution. Operating within the National Capital Region (NCR) provides us with a distinct structural advantage, allowing us to leverage our geographic proximity to corporate headquarters and policy-making bodies to maximize our institutional impact.

What message would you like to share with aspiring students who are considering your Institute as a career pathway?

Our message to every aspiring leader is clear, unconditional, and backed by 25 years of academic excellence: **Choose an institution that challenges you far more than it comforts you.**

A top-tier management education should intentionally make you uncomfortable. It must challenge your biases, break down easy answers, and expand the boundaries of your current capabilities. NIET Business School is explicitly engineered to create this transformative friction. We do not exist to simply award you a degree; we are here to fundamentally reshape how you evaluate problems, lead human capital, and scale organizational potential through a strong, global alumni base.

If you are prepared to invest deep intellectual labor, engage fully with the realities of modern global business, and take absolute ownership of your career trajectory, our ecosystem will meet you more than halfway.

We offer an AICTE-approved, NBA-accredited, and AIU-recognized institutional framework, backed by a best-in-class physical campus and an elite placement network of over 150+ market-leading firms. More than these credentials, however, we are a deeply serious community of management practitioners who view executive education as a profound responsibility. If you share this commitment to professional excellence, you will find NIET Business School to be one of the most transformative and high-ROI investments of your career.

Rapid Fire Round

One leadership quality every management student must possess?

Intellectual agility balanced with absolute professional humility. The internal security to state, "We do not know the answer to this yet, but our team will discover it," is vastly more impactful in a modern boardroom than a false pretense of certainty. The global leaders we admire most are those who maintain a rigorous, restless curiosity throughout their entire lives.

Boardroom meeting or informal coffee-table discussion? Which do you prefer?

The coffee-table, without question. The boardroom serves as the arena where formal decisions are ratified; however, real strategic innovation happens during informal, high-trust conversations where organizational hierarchy is suspended and strategic honesty flows freely. Many of our most impactful institutional breakthroughs at NIET Business School have emerged from precisely these unscripted exchanges.

Your definition of success in management education?

Success is our alumnus who, five to ten years after graduation, is driving major corporate growth while making deeply ethical decisions that respect stakeholders well beyond the immediate financial transaction. When our graduates continue to read restlessly, question assumptions, and lead with empathy and integrity, we consider our educational mission achieved. Our premium placement figures are exceptional, but our true ROI is the calibre of leaders we give to the world.

One piece of advice for students entering the corporate world?

Protect and manage your reputation for personal and professional integrity just as ruthlessly as you manage your corporate KPIs. Functional business skills can be acquired and updated at any juncture of your professional life; however, once organizational trust is compromised, it is nearly impossible to rebuild. In a corporate ecosystem saturated with data but short on trust, the leader who is known to be completely reliable, principled, and transparent becomes an invaluable asset. Be that leader from day one.

From Ideas to Impact – A Journey Brought to Life

Innovate-X-NIET 1.0, held on 3rd and 4th May 2026 at NIET Greater Noida, successfully brought together some of the brightest first-year minds for 36 hours of continuous innovation, collaboration, and problem-solving. Organized as a dynamic platform for experiential learning and creative exploration, the event encouraged students to transform ideas into practical and impactful solutions addressing real-world challenges. From food waste management and smart energy optimization to digital well-being and academic stress reduction, participants showcased remarkable creativity, critical thinking, and technical acumen.

The hackathon witnessed enthusiastic participation from 292 teams comprising 1460 students, out of which 66 finalist teams advanced to the final round. The event culminated with 10 winning teams competing for a prize pool of ₹1.5 lakh, making it a true celebration of innovation, teamwork, and future-ready thinking. Powered by the Institution's Innovation Council (Ministry of Education Initiative), Innovate-X-NIET 1.0 reflected NIET's continued commitment to fostering innovation beyond classrooms and nurturing future-ready innovators equipped with creativity, collaboration, and a solution-oriented mindset.

Placements that Shape Futures Begin at NIET Greater Noida

With over 3100 placement opportunities, a highest package of ₹44 LPA, an average package of ₹5.77 LPA, and participation from more than 500 recruiters, NIET Greater Noida continues to strengthen its position as a leading destination for industry-ready education and successful career outcomes. Adding to this success, NIET proudly congratulates its students on securing placements at leading organizations such as Sopra Steria with a package of 6 LPA, while also congratulating Divya Bansal and Gunjan Sharma from MBA Batch 2026 on their placements at Capgemini.

Further strengthening this remarkable placement journey, NIET congratulates its B.Tech ECE students of Batch 2026 – Anand Kumar, Ankit Kumar, Diwakar Chauhan, Gantavya Srivastava, Nikita Chaudhary, and Govind Tiwari – on securing opportunities with ReNew Power, one of India's leading renewable energy companies. These accomplishments reflect the dedication, technical excellence, and industry readiness nurtured at NIET through academic excellence, experiential learning, and strong industry collaborations. The institute remains committed to shaping future-ready professionals equipped to excel in a dynamic global workforce and contribute meaningfully to industry and society.

NIET Secures 2nd Position PAN India in Oracle Academy's Project Vijay

NIET Greater Noida takes immense pride in the remarkable achievement of its students and faculty in Project Vijay, an initiative by Oracle Academy focused on Applied Database Systems using Oracle AI DB. Competing alongside 10 leading institutions from across the country, NIET secured the 2nd position PAN India in course completion and assessments, reaffirming the institute's strong commitment to academic excellence and industry-aligned learning.

During the grand finale hosted at Oracle, NIET faculty members and students presented innovative project applications, shared best practices, and demonstrated practical implementation of database systems and AI-driven technologies. Their outstanding performance reflected technical competence, collaborative learning, and a forward-looking approach to emerging technologies. This achievement further strengthens NIET's vision of promoting experiential learning, innovation, and future-ready skills that empower students to excel in the evolving technology landscape.

Cleanliness Drive for a Sustainable Tomorrow

As part of its commitment to environmental responsibility and community engagement, the NSS Cell of NIET Greater Noida, in collaboration with Amrita Devi Foundation, organized a cleanliness and waste segregation drive on 4th June 2026.

The initiative focused on promoting responsible waste disposal practices and spreading awareness about plastic waste management within the community. Through active participation and collective effort, NSS volunteers encouraged sustainable habits and highlighted the importance of building a cleaner and greener future.

The drive reflected NIET's continued emphasis on social responsibility, environmental consciousness, and student-led community impact.

A Proud Moment for the NIET Family

NIET Greater Noida proudly congratulates Mridul Nigam from B.Tech CSE, Batch 2028, on being selected as a Google Gemini Student Ambassador 2026. This remarkable achievement reflects his passion for technology, innovation, and AI-driven learning. By becoming part of a global community of emerging tech leaders and innovators, he has brought pride to the entire NIET fraternity.

At NIET, students are encouraged not only to learn emerging technologies but also to actively contribute to shaping the future through innovation, leadership, and continuous learning.

FDP on Academic Research Writing Conducted

The Department of Computer Science & Engineering (Data Science), NIET Greater Noida, successfully organized a One-Day Faculty Development Program on *"Mastering Academic Research Writing: From Idea to Publication"* on 02 May 2026 in online mode. The session was delivered by Dr. G. Vetrivel, Assistant Professor, Department of Mathematics, Dhanalakshmi Srinivasan University, Perambalur. The FDP provided valuable insights into research methodology, manuscript preparation, publication ethics, journal selection, and effective publication strategies. Faculty members from various institutions participated in the programme, which significantly enhanced their understanding of academic research and scholarly communication.

FDP on Indian Knowledge Systems Organized

The Department of Computer Science & Engineering (Data Science), NIET Greater Noida, organized a One-Day Faculty Development Program on *"Indian Knowledge Systems: Research, Innovation and Practices"* on 25 May 2026 in online mode. The session was conducted by Dr. M. Shyamalagowri, Head IQAC and Associate Professor, Department of EEE, K.S. Rangasamy College of Technology, Tiruchengode. The programme highlighted the relevance of Indian Knowledge Systems in contemporary education, research, and innovation, encouraging participants to integrate traditional knowledge with modern academic practices and promoting interdisciplinary learning.

NOVAERA 2026: A Memorable Farewell Celebration

The Department of Computer Science & Engineering (Data Science), NIET Greater Noida, organized NOVAERA 2026 – Beyond Campus, Beyond Limits on 21 May 2026 at the B Block Auditorium to bid farewell to the graduating B.Tech CSE (Data Science) students. The event brought together students and faculty members in a vibrant celebration featuring cultural performances, musical presentations, games, and interactive sessions. NOVAERA 2026 served as a platform to honour the achievements of the outgoing batch, strengthen departmental bonds, and inspire students as they prepare for their future academic and professional journeys.

Seamless Conduct of End Semester Examinations Reflects Academic Excellence

The End Semester Examinations for the Even Semester were successfully conducted at NIET Greater Noida during the month of May 2026 under the leadership of Dr. Rajesh Kumar, Controller of Examinations (COE). The Examination Cell, along with the dedicated team of faculty members, coordinators, invigilators, and support staff, worked tirelessly to ensure the smooth and efficient conduct of the examinations. Through meticulous planning, effective coordination, and strict adherence to examination protocols, the institution maintained the highest standards of academic integrity, transparency, and discipline. The successful completion of the examination process not only reflects the commitment of the Examination Cell towards maintaining the highest standards of academic integrity and institutional quality but also reinforces NIET Greater Noida's dedication to fostering excellence in teaching, learning, and evaluation.



Cyber Security: Paths, Skills & How To Break In

The Department of CSE (Cyber Security) organized a national-level event titled “Cyber Security: PATHS, SKILLS & HOW TO BREAK IN” on 09 April 2026 at NIET, Greater Noida. Conducted under the theme of IPR & Technology Transfer and aligned with SDG 4: Quality Education, the event was organized in collaboration with Enciphers Lab Pvt. Ltd. under an MoU. The event was coordinated by Ms. Sneha Rai, Assistant Professor, Department of CSE (Cyber Security).

National Level Event: Ghost Protocol CTF 2026

“The Department of CSE (Cyber Security) organized a national-level event titled “Ghost Protocol CTF 2026” under the theme “Science and R&D Strengthened by AI” at 101-B Lab, NIET, Greater Noida. Conducted as a one-day offline activity aligned with SDG 4: Quality Education, the event was coordinated by Ms. Sneha Rai, Assistant Professor. The event witnessed the participation of 19 students and provided a focused, hands-on cybersecurity learning experience.”

Research Spark 2

"The Department of CSE (Cyber Security) organized "Research Spark 2" to encourage students to build a strong research culture and explore innovative solutions to real-world problems. Dr. Vineet Kumar served as the resource person for the event and guided students in developing analytical, critical thinking, and research skills."

Cyber Security Roadmap

"The Department of Computer Science and Engineering (Cyber Security) organized "Cyber Security Roadmap" under an existing MoU in collaboration with EC-Council and Cyber Defentech. Sponsored by industry partners, the event aimed to provide participants with industry-relevant insights into the field of cybersecurity. Two industry experts participated as resource persons and shared practical knowledge and current industry trends with the attendees."

NIET Team Wins InnovateX – NIET 1.0

The MCA Integrated team, **Team Green Circuit**, emerged as winners at **InnovateX–NIET 1.0**, a 36-hour hackathon held on 5 May 2026 for first-year students. The team impressed the judges with its project, *Food Waste Tracking and Management System*, an IoT based solution that utilizes ESP32, camera modules, RFID integration, and software analytics to detect and monitor food wastage. Promoting sustainability and responsible consumption, the project earned widespread appreciation and a cash prize of ₹20,000. The team comprised Gargi Pandey, Satvik Kumar Mishra, Dhruv Kumar, Saket Mishra, and Jatin Kumar.

Students Gain Media Insights during News18 India Studio Visit

Students from the School of **Computer Applications, NIET**, visited the **News18 India Studio** on 8 May 2026 to witness the renowned *Aar Paar* debate show hosted by **Amish Devgan**. The discussion centered on the **Bengal Election Results**, offering students a unique opportunity to observe live television broadcasting and public discourse in action. The visit provided valuable exposure to journalism practices, media communication, and contemporary political developments, enriching students' understanding of the role of media in shaping public opinion and informed decision-making.

Workshop on Smart Referencing with Mendeley Enhances Research Skills

The **School of Computer Applications**, in association with the **R&D Cell, NIET**, successfully organized a workshop on "Smart Referencing with Mendeley" on 29 May 2026. The session was conducted by Dr. Arvind Arya, who shared valuable insights into citation management, academic writing, and effective research organization using Mendeley. The workshop provided participants with practical knowledge to streamline their research workflow and improve scholarly writing practices. Active participation and enthusiastic engagement from attendees made the session highly interactive, informative, and enriching.

Faculty Development Programme on Effective Teaching-Learning Using Social Media

The Department of Information Technology, NIET Greater Noida, in collaboration with NITTTR Chandigarh, successfully conducted a 5-Day online Faculty Development Programme on *"Effective Teaching-Learning Using Social Media"* from 18th to 22nd May 2026. Coordinated by Mr. Ankur Kumar Varshney and Ms. Sarita Negi under the guidance of Dr. Ritesh Rastogi, Head of the Department, the programme equipped faculty members with innovative teaching strategies, digital tools, and practical approaches for integrating social media into higher education. The FDP enhanced participants' understanding of modern pedagogical practices, contributing to more engaging and effective teaching-learning experiences.

Avyakta 2026: A Heartfelt Farewell to the Outgoing Batch

The Department of Information Technology, under the School of CSIT, NIET Greater Noida, organized *"Avyakta 2026: The Final Bow"* on 19 May 2026 to bid a warm farewell to the outgoing batch. The event featured vibrant cultural performances, fun-filled games, and entertainment activities, creating a memorable celebration of the students' journey. Faculty members shared their best wishes and words of encouragement, while the *Mr. Farewell and Miss Farewell* title ceremony added excitement to the occasion. The event concluded with group photographs and cherished interactions, leaving participants with lasting memories and a sense of nostalgia.





Research Publications

Department of AI

Dr Anand Kumar Gupta
Professor & Head

Authored a book *Artificial Intelligence for Sustainable Energy Systems 1: Intelligent Technologies for Sustainable Energy Management published* by Wiley. This book brings together the fundamental concepts of artificial intelligence (AI), machine learning, deep learning and big data analytics, with their practical integration into renewable energy systems, smart grids and digital energy management platforms.

Department of AIML

Dr Divya Mishra
Associate Professor

Published a research paper titled *"Enhancing Conversational Empathy: A Hybrid BERT T5 Framework for Emotion-Aware Dialogue Generation"* in IEEE Xplore. The paper was presented at 13th International Conference on Computing for Sustainable Global Development (INDIACom). The research proposes an advanced AI framework that enables conversational systems to better understand and respond to human emotions, fostering more natural, empathetic, and effective human–computer interactions.

Dr Ghazala Sultan
Assistant Professor

Published a paper titled *"Genetic Algorithm Based Lung Nodule Segmentation and Vision Transformer Driven Classification for Lung Cancer Detection"* in IEEE Xplore. The paper was presented at the Second International Conference on Emerging Computational Intelligence. The research presents an innovative approach that combines Genetic Algorithms for precise lung nodule segmentation with Vision Transformer-based classification to improve the accuracy of lung cancer detection.

Dr Sonia Arora
Assistant Professor & Deputy Head

Authored the book *The Future of Engineering Innovation: Smart Technologies and Advanced Design@2026* published by Chyren Publication. The work highlights the transformative role of Artificial Intelligence and Machine Learning in addressing contemporary engineering challenges and fostering intelligent, data driven.

Mr Swadhin Kumar
Assistant Professor

Authored the book *Computer Networking* published by Chyren Publication. The book focuses on fundamental and advanced concepts of modern communication networks and highlights networking technologies, protocols, and secure data communication mechanisms essential for today's interconnected world.

Mr Rehan Ali
Assistant Professor

Authored the book *Advance Java* published by Chyren Publication. The book focuses on core and advanced concepts of Java programming for developing robust, scalable, and secure applications. The work highlights object-oriented programming, collections, exception handling, multithreading, JDBC, and enterprise application development. The contribution reflects his dedication to academic excellence, technical innovation, and the advancement of knowledge in software development and emerging technologies.

Dr Mohammad Shahid
Associate Professor

Achieved the grant of following two patents by the Indian Patent Office.

- The first patent, titled "AI Based Mobile Signal Strength Measuring Device," reflects a significant contribution to intelligent system development and technological advancement in communication systems.
- The second patent, titled "MRI Scanning Device," highlights innovative advancements in technology and applied research, further strengthening contributions to the domain of Communication.

Mr Rehan Ali
Assistant Professor

Ms Purnima Pal
Assistant Professor

Ms Suman Rani
Assistant Professor

were granted a patent by the Indian Patent Office for their innovation titled "Smart Device Using AI for Prediction of Rare Diseases." The patent showcases an innovative application of Artificial Intelligence in healthcare, with a focus on the prediction of rare diseases through smart technology.

Dr Raju
Associate Professor & Head

Dr Sonia Arora
Assistant Professor & Deputy Head

Published the following two patents granted by the Indian Patent Office.

- The first patent, titled "Secure Cloud Based Predicting Road Accidents Through Advanced Data Mining Techniques," presents an innovative approach to road accident prediction through the integration of advanced data mining techniques and secure cloud-based systems.
- The second patent, titled "Optimal Ensemble Learning for Automated Android Malware Detection in Cyber Security Applications," highlights an innovative contribution to cybersecurity through the use of ensemble learning techniques for efficient Android malware detection. The research demonstrates the potential of Artificial Intelligence in strengthening cybersecurity applications and developing impactful digital security solutions.

Department of Biotechnology

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Prof Narender Kumar
Professor

Authored paper, "Pharmacology through the Lens of Bibliometrics: Global Trends, Research Hotspots, and Collaborations (2015–2026)," *published in Naunyn-Schmiedeberg's Archives of Pharmacology*, a SCI-indexed journal with an impact factor of 3.1. The study analyzed 1,014 pharmacology bibliometric publications from the Scopus database (2015–2026) using VOS viewer. Results revealed a sharp increase in publications, with China leading research output, while the USA showed the strongest international collaborations. Major research hotspots included drug therapy, oxidative stress, and inflammation, whereas artificial intelligence and machine learning emerged as growing themes. The study highlights global publication trends, collaboration networks, and emerging directions in pharmacology research.

Department of CS

Published a paper titled *"Artificial Intelligence and Machine Learning in Archaeology: Transforming Cultural Heritage Documentation, Conservation, and Interpretation,"* in the journal Scientific Culture, a Scopus Q1 journal. This paper reflects its strong academic impact and research excellence in interdisciplinary studies.

Dr Kanika Singhal
Assistant Professor

Ms Arhina Ghosh
Assistant Professor (CS)

Ms Smriti Jaiswal
Assistant Professor (DS)

Published the following two research papers in IEEE Xplore.

- A paper titled "Ethical and Privacy Challenges of AI-Driven Threat Intelligence: Toward a Framework for Responsible Cyber Defense" examines the ethical and privacy concerns associated with the use of Artificial Intelligence in threat intelligence and cybersecurity systems. It proposes a responsible framework for AI-driven cyber defense that balances effective threat detection with data privacy, transparency, accountability, and ethical decision-making.
- Another paper titled *"Federated Learning Meets Explainable AI: A Comprehensive Review and Roadmap for Privacy-Preserving Cybersecurity"* explores the integration of Federated Learning and Explainable Artificial Intelligence (XAI) to develop privacy-preserving cybersecurity solutions. It provides a comprehensive review of existing approaches and proposes a roadmap for building secure, transparent, and trustworthy AI-driven cybersecurity systems without compromising sensitive data.

Department of CSBS

Ms Rifa Nizam Khan
Assistant Professor

Ms Shivani Sharma
Assistant Professor

Mr Sanny Kumar
Assistant Professor

Mr Hitendra Singh
Assistant Professor

Published a breakthrough patent titled "Optimal Ensemble Learning for Automated Android Malware Detection in Cyber Security Applications." The innovation leverages deep learning and hunter-prey optimization to merge multiple machines learning models, significantly upgrading automated threat classification on Android devices. This achievement underscores the department's focus on advancing cutting-edge research in digital security.

Ms Upasna
Assistant Professor

Mr Hitendra Singh
Assistant Professor

Ms Rifa Nizam Khan
Assistant Professor

Ms Shivani Sharma
Assistant Professor

Published a patent titled "Secure Cloud Based Predicting Road Accidents Through Advanced Data Mining Techniques." The innovation integrates cloud computing and advanced data mining with machine learning architectures like Support Vector Machines (SVM) and Artificial Neural Networks (ANN). By enabling real-time predictive analytics, the system delivers intelligent road accident forecasting to enhance traffic monitoring and public safety.

Department of CSE

Ms Swati Vishnoi
Assistant Professor

Published a research paper, **"Hybrid Quantum – Classical Ensemble Model for Enhanced Cardiovascular Disease Risk Prediction Using Clinical Data,"** in the prestigious, SCI-indexed Q1 Springer journal ***Discover Computing.*** Blending advanced technological innovation with medical science, the study introduces a powerful computing framework that merges quantum and classical ensemble models to predict cardiovascular risks with high precision. Backed by rigorous experimental and theoretical data, the paper details practical ways this technology can upgrade early cardiac diagnosis and transform predictive healthcare analytics!

Ms Neeti Taneja
Assistant Professor

Published the following research papers:

- Paper titled "Deep Learning Based Retinal Disease Classification Using Convolutional Neural Networks" was presented at ICAFT 2025, Belagavi and published in IEEE Xplore. The automated CNN framework flags retinal conditions with an outstanding 96.8% accuracy.
- Paper titled "Hybrid CNN-GRU and Random Forest Ensemble for Efficient Intrusion Detection in Industrial IoT Networks" was presented at ETCOM 2025 and published in IEEE Xplore. The multi-stage framework offers powerful protection for smart industrial grids against cyber threats.

Mr Ibrar Ahmed
Assistant Professor

Mr Sanjay Kumar Nayak
Assistant Professor

Published a paper titled "Machine Learning Based Techniques for the Key Generation and Securing Medical Images" on IEEE Xplore. The paper was presented at EmergIN 2025. The study introduces an advanced cybersecurity framework combining CNN-based key generation, SHA-256, AES encryption, and DWT-SVD watermarking. This robust system delivers top-tier encryption and maintains high image quality to ensure absolute security for sensitive digital healthcare data.

Mr Rohit Chaudhary
Assistant Professor

Published a paper titled "Adversarial Attacks on AI Systems: A Cybersecurity Perspective." Featured in the peer-reviewed International Journal of Computing and Artificial Intelligence (Vol. 7, Issue 4). The paper, which was co-authored by Richa Mishra, Santosh Kumar Chauhan, Tarang Mehrotra, and Varsha Srivastava, is a systematic literature review that exposes critical attack vulnerabilities and defenses in LLMs, federated learning, autonomous vehicles, and multimodal AI – offering essential recommendations for building secure, resilient AI applications.

Dr Poornima Tyagi
Professor

Dr Poornima Tyagi
Professor

Authored a book chapter titled *"Introduction to Deep Learning: Foundations, Architectures, and Applications"* in the volume The Future of Engineering Innovation: Smart Technologies and Advanced Design, Volume III published by Chyren Publications, ISBN: 978-93-7143-814-8. This work breaks down core AI concepts, frameworks, and real-world applications to drive next-generation engineering innovation!

Mr Rohit Chaudhary
Assistant Professor

Authored a book chapter titled "AI Ethics and the Future of Artificial Intelligence" *in the volume The Future of Engineering Innovation: Smart Technologies and Advanced Design*, Volume III (ISBN: 978-93-7143-814-8). The work tackles the crucial ethical dimensions and future societal impacts of artificial intelligence, offering a blueprint for building responsible and sustainable technologies.

Dr Poornima Tyagi
Professor

Published the book chapter "Introduction to Deep Learning: Foundations, Architectures, and Applications". Featured in The Future of Engineering Innovation: Smart Technologies and Advanced Design, Volume III (2026), this work provides a comprehensive breakdown of core AI concepts, architectures, challenges, and emerging trends to drive smart engineering forward.

Mr Rajat Kumar
Assistant Professor

Mr Ibrar Ahmed
Assistant Professor

Was officially granted a design registration for the work titled "IoT-Enhanced Supply Chain Management System," registered under Category 12-05. The innovation focuses on leveraging Internet of Things (IoT) technologies to drastically improve supply chain efficiency, enabling real-time logistics monitoring and data-driven decision-making through a network of smart, connected systems.

Dr Mohd. Nazim
Assistant Professor

Mr Ibrar Ahmed
Assistant Professor

Ms Vaishali Mishra
Assistant Professor

Ms Neeti Taneja
Assistant Professor

Ms Pooja Kumari
Assistant Professor

Presented a paper titled "Real-Time Indian Sign Language Gesture Recognition Using a CNN-GRU Hybrid Model" at the IC3ECSBHI 2026 conference, indexed in Scopus.The study introduces a hybrid deep learning model that accurately translates Indian Sign Language in real time, significantly improving communication accessibility for the Deaf and Hard of Hearing community.

Department of CYS

Dr Rashmi Sharma
Professor & Head

Published the following research papers:

- A paper titled "Real-Time Driver Drowsiness and Distraction Detection Using Google ML Kit on Android Platforms" presented at IEEE 2025 International Conference on Emerging Technologies and Innovation for Sustainability (EmergIN) and published in IEEE Xplore. The study proposed facial landmark detection, head pose detection, Eye Aspect Ratio (EAR), and a Drowsiness Score mechanism for detecting driver fatigue and distraction.
- A paper titled "A Comprehensive Review on Machine Learning Techniques for Reckless Driving Detection" in the Journal of *Mountain Research.* The paper presents a detailed review of current research and highlights significant advances in machine learning applications for reckless driving identification.

Mr Mohd. Abdul Mateen Siddiqui
Assistant Professor

Dr Vineet Kumar
Associate Professor

Mr Deepak Sharma
Assistant Professor

Published a research paper titled "Real-Time Demographic Analysis Using Facial Biometrics" presented at IEEE 2025 International Conference on Emerging Technologies and Innovation for Sustainability (EmergIN) was published in IEEE Xplore. The paper explores the use of facial biometric technology for real-time demographic analysis, enabling efficient identification and classification based on facial attributes.

Mr Deepak Sharma
Assistant Professor
Published a patent titled "Adaptive Digital Twin for Early Disease Progression Prediction (ADTP)." The innovation uses personalized digital replicas to monitor health patterns and predict disease progression at an early stage, enabling timely and precise medical interventions.

Department of DS

Dr Ashish Kumar Chakraverti
Professor & Head, CSE
Published a research article titled *"Hybrid Quantum GAN-Integrated Synthetic Data Generation with Privacy-Embedded Attention Framework for Financial Forecasting and Risk Analysis" in Elsevier's prestigious journal Big Data Research* (Volume 45, 2026). The study introduces a quantum-inspired AI framework that enhances financial forecasting, fraud detection, and risk assessment while ensuring data privacy and security, contributing significantly to next-generation intelligent financial systems.

Mr Akshay Kumar
Assistant Professor
Authored the book *Java Programming Fundamentals to Advanced GUI Development*, published by Book Rivers (ISBN: 978-93-7837-805-8). The book provides a comprehensive introduction to Java programming, covering core concepts, multithreading, GUI development, JVM architecture, and modern application development practices, making it a valuable resource for students and aspiring software developers.

Ms Chanchal Garg
Assistant Professor
Presented and published a research paper titled *"Structured Prompting for Improving Reasoning Accuracy and Reducing Hallucination in Large Language Models"* at an IEEE Conference. The study demonstrates how systematic prompt engineering can significantly improve reasoning accuracy, consistency, and reliability of Large Language Models, particularly for applications in legal, clinical, financial, and scientific domains.

Mr Raviraj Singh Kurmi
Assistant Professor
Authored a book chapter titled "Advanced Design Paradigms in the Era of Smart Engineering Innovation" in The Future of Engineering Innovation: Smart Technologies and Advanced Design, Volume V. The chapter explores the transformative role of AI, IoT, Digital Twins, and Cyber-Physical Systems in creating intelligent, adaptive, and sustainable engineering solutions for the future.

Ms Honey singh
Assistant Professor

Authored a book chapter titled *"Evolution of Computer Networks and Communication Technologies" in Current Trends in Science Engineering & Technology 2025, Volume III.* The chapter highlights the evolution of communication technologies from conventional wired networks to advanced cloud-based, mobile, and IoT-enabled communication systems that drive today's digital world.

Published a research paper titled *"Plant Diseases Detection using VGG16" in the International Journal of Advanced Research in Arts, Science, Engineering & Management.* The research applies deep learning techniques for automated plant disease detection, contributing to precision agriculture and technology-enabled solutions for sustainable farming.

Dr Nidhi Sharma
Associate Professor

Dr Nidhi Sharma
Associate Professor

Published the following research papers:

- Paper titled *"Crime Rate Analysis and 3D Visualization Using Power BI and Unity"* published in the *International Research Journal of Modernization in Engineering Technology and Science.* The work integrates business intelligence and immersive visualization technologies to support advanced crime analytics and data-driven decision-making.
- Paper titled *"Food Delivery App Using MERN" published in the International Journal of Engineering Development and Research.* The paper presents the development of a modern full-stack web application using the MERN framework, demonstrating practical implementation of contemporary web technologies.

Ms Nisha Verma
Assistant Professor

Co-authored the book *Operating System*, published by SPI Publications in 2026. The book provides comprehensive coverage of process management, memory management, scheduling algorithms, file systems, and modern operating system architectures, serving as a valuable academic resource for Computer Science students.

Mr Chandrapal Singh Arya
Assistant Professor

Published the following research papers:

- Paper titled *"The Role of AI Chatbots in Shaping Consumer Trust and Purchase Intentions: A Cross-Cultural Perspective"* published in Advances in Consumer Research. The study investigates how AI chatbot characteristics influence consumer trust and purchasing behaviour across different cultural contexts, offering valuable insights for global digital marketing strategies.
- Paper titled *"Multimodal Digital Technologies in Mental Health Care: AI, Virtual Reality, Wearables and Digital Therapeutics – A Comparative Review."* Published in International Journal of Versatile Research and Analysis. The study evaluates emerging digital healthcare technologies and proposes an integrated framework for improving accessibility, effectiveness, and scalability of mental health services through AI-driven innovations.

Department of ECE

Mr Rishi Raj Ranjan
Assistant Professor

Mr Snehil Saxena
Assistant Professor

Mr Rajan Kumar
Assistant Professor

Mr Himanshu
Assistant Professor

Published a machine learning framework for secure, touchless biometric recognition in the current issue of *IJSRCSEIT.* Their paper "An ML Approach for Secure and Contactless Recognition System," eliminates the hygiene flaws of traditional physical touchpads. By leveraging advanced ML algorithms, their system achieves high-accuracy user identification without physical contact, integrating robust anti-spoofing countermeasures to prevent unauthorized access and upgrade digital security.

Mr Himanshu
Assistant Professor

Published a patent titled “Artificial Intelligence-Based Ocular Imaging and Diagnostics” system. By integrating advanced machine learning and deep learning with ophthalmic imaging, this technology automates the detection and classification of eye diseases like glaucoma and diabetic retinopathy. The system significantly improves diagnostic accuracy and cuts screening times to support early clinical decisions.

Ms Neha
Assistant Professor & Deputy Head

Published a patent titled “Portable Tensiometric Device for Monitoring Wound Healing Progress.” This innovation introduces a compact, non-invasive device that measures tissue tensile strength and elasticity to monitor wound recovery in real time. By providing quantitative assessments, the system enables early detection of delayed healing to customize treatments for chronic wounds, diabetic ulcers, and surgical incisions.

Dr Nitu Rao
Assistant Professor

Published a paper titled “Cryogenic performance analysis of stacked nanosheet-based GAA-MBCFETs: from 300K to 4.3K” in IOP Science, indexed in Science Citation Index. The study presents a novel Gate-all-Around multi-bridged channel Field Effect Transistor (GAA-MBCFET) design evaluated across extreme temperature ranges. This architecture is engineered to provide superior channel control and successfully mitigate severe short-channel effects commonly found in conventional FinFET structures, paving the way for next-generation quantum and cryogenic computing components.

Ms Ranjana Singh
Assistant Professor

Authored a book chapter titled "A comprehensive review on Wearable DRA for 5G, 6G and WBAN applications for remote monitoring/IoT based system" in *Broadband Antennas for Microwave Biomedical Imaging* (Wiley). The work reviews stretchable dielectric resonator antennas (DRAs) for wearable Wireless Body Area Networks. It details critical design needs—including flexibility, low Specific Absorption Rate (SAR), and high efficiency—while highlighting advancements in compact, body-centric antennas optimized for next-gen 5G, 6G, and IoT healthcare monitoring.

Mr Prabhat Mishra
Student

Mr Shaswat Mishra
Student

Mr Raj Saran Gupta
Student

Ms Swarnima
Assistant Professor

Mr Mohd. Raza
Assistant Professor

Published a patent titled "IoT-Enabled LPG Safety System with Remote Control and Call Alerts." The developed device uses an MQ-2 sensor to quickly detect gas leakages and trigger immediate safety responses, including a buzzer, a relay-controlled exhaust fan, and a servo motor that automatically turns off the regulator. Crucially, the system sends instant GSM calls, SMS, and IoT alerts to inform users even without internet connectivity, offering a reliable, automated solution to prevent LPG accidents.

Dr Sarabjeet Kaur
Assistant Professor

Co-authored a book chapter titled "Intelligent Road Lane-Lines Detection in Real Time for Advanced Driving Assistance Systems" in *Research Advances in Network Technologies* (Taylor & Francis). The work advances computer vision for real-time lane detection, improving navigation safety in autonomous vehicles.

Ms Swarnima
Assistant Professor

Dr Vijay Kumar Pandey
Professor

Mr Milind Singh
Student

Mr Nirwan Mishra
Student

Mr Veer Pratap Singh
Student

Published a manuscript titled "Design of a compact dual band MIMO antenna system" in the ICNGWCET 2026 conference. The paper introduces an optimal, dual-frequency MIMO antenna operating at 2000 MHz and 4650 MHz. While the lower band supports legacy GSM, UMTS, WCDMA, and LTE systems, the higher band optimizes sub-6 GHz 5G applications, offering a compact solution for modern high-speed wireless networks.

Department of IoT

Dr Mamta Chauhan
Assistant Professor

Mr Mayank Deep Khare
Assistant Professor & Head

Ms Neha Bhati
Assistant Professor

Presented their research paper titled *"Convergence of Blockchain and Cyber Security: A Systematic Review of Emerging Threats and Advanced Defenses"* at the International Conference MICRO2026, organized by Gautam Buddha University. Their research explored the integration of blockchain technology with cybersecurity frameworks to address emerging digital threats and strengthen advanced defence mechanisms.

Dr Ankur Sisodia
Assistant Professor

Published a research paper titled *"Hybrid Quantum–Classical Ensemble Model for Enhanced Cardiovascular Disease Risk Prediction Using Clinical Data" in Discover Computing* (SCI, Q1). The study presents an innovative hybrid quantum-classical ensemble learning framework designed to improve the accuracy of cardiovascular disease risk prediction using clinical datasets. This significant contribution advances the fields of artificial intelligence in healthcare, intelligent decision-support systems, and medical data analytics.

Mr Amit Kumar
Assistant Professor

Presented a research paper titled "Impact of Phase Jitter on the Design and Reliability of Mixed THz-RF Systems for 6G Networks" at the International Conference Micro2026 organized by Gautam Budh University.

Department of ME

Dr Anant Prakash Agrawal
Assistant Professor

Authored the following three book chapters in the Scopus-indexed book Eco-Friendly and Sustainable Coatings for Wear-Prone Industrial Applications published by Taylor & Francis – CRC Press. These scholarly contributions reflect Dr Agrawal's research expertise in sustainable manufacturing and advanced coating technologies.

- Evaluating Environmental Impact in Sustainable Coating Applications
- Introduction to Eco-Friendly and Sustainable Coatings: Transforming Industrial Practices
- Engineering Sustainable Coatings: Impact of Key Processing Parameters

First Year Campus

Dr Rekha Gupta
Assistant Professor

Co-authored a book chapter titled "Progress in Lead Free Perovskite Materials for Magnetic Applications" in the book *Sustainable Lead-Free Perovskite Materials* published by Springer Nature. This research focuses on the synthesis, properties, and applications of single and double lead-free perovskite materials. Their work provides critical insights into developing eco-friendly, sustainable alternatives for advanced magnetic applications and electronic devices.

Dr Anurag Tyagi
Assistant Professor

Department of Languages

Dr Sonika Kumari
Assistant Professor

Presented a research paper titled "Intra-Asian Circulations: South Korean Film and Narrative Transformation in Hindi Cinema" at the international conference "India in Asia, Asia in India: Transcultural Film Practices, Circulations and Histories" hosted by the City University of Hong Kong. The presentation explored the influence of South Korean cinema on narrative structures and storytelling practices in Hindi cinema, highlighting evolving transcultural exchanges within Asian film industries. This academic contribution reflects active engagement in global research dialogue and interdisciplinary scholarship in film and cultural studies.

Dr Krishna Kumar
Assistant Professor

Presented a paper titled "A Socio-Cultural Study of Nalin Verma's Select Folk Tales" at the First International Conference of the World Association of Authors and Researchers, organized by PRPS College, Darbhanga. The paper examined the socio-cultural dimensions reflected in Nalin Verma's folk narratives, highlighting their relevance in preserving regional traditions, cultural identity, and literary heritage. This achievement reflects active scholarly engagement and contribution to interdisciplinary literary and cultural studies at an international academic platform.

Ms Garima Joshi
Assistant Professor

Authored a book chapter titled "Motherhood as Myth, Labor, and Sign" in the book Semiotics of Global Narratives: Culture, Text & Identity .The chapter critically examines the representation of motherhood through the lenses of mythology, labour, and semiotics, exploring how cultural narratives shape and reinterpret maternal identity across literary and social contexts. This publication reflects significant scholarly contribution to literary, cultural, and interdisciplinary studies.

NIET Pharmacy Institute

Dr Avijit Mazumder
Professor & Director

Published a research paper titled *"Bioactive-Guided Isolation and Optimization of Luffa Acutangula Nanoemulsion for In vitro, In vivo, and In silico Cholinesterase Inhibition for Alzheimer's Disease Management"* in the Journal of Chemistry and Biodiversity. The study focuses on isolating bioactive compounds *from Luffa acutangula* fruits and developing an optimized nanoemulsion to enhance brain-targeted delivery for Alzheimer's disease treatment. By integrating in vitro, in vivo, and in silico approaches, the research contributes to the advancement of innovative therapeutic strategies for neurodegenerative disorders and highlights the institute's commitment to impactful pharmaceutical research.

Anmol Kanda
PG student

Dr Avijit Mazumder
Professor & Director

Ms Bhavani Pentela
Assistant Professor

Ms Angana Rastogi
Student

Published a research paper titled *"Pharmacognostic, Therapeutic, and Formulation Insights into Sesamum indicum: From Traditional Uses to Advanced Drug Delivery Systems"* in the Scopus-indexed MSW Management Journal. The publication provides a comprehensive review of Sesamum indicum, highlighting its pharmacological and nutritional importance, traditional medicinal applications, key bioactive constituents, and recent advancements in formulation strategies and drug delivery technologies.

Dr Avijit Mazumder
Professor & Director

Dr Priyanka Bansal
Assistant Professor

Mr Harsh Rana
Student

Published their review article, *"C. pictus as a Potential Regulator of Oxidative Stress and Inflammatory Pathways in Diabetes and Metabolic Disorders," in the Journal of Chemical Health Risks.* The review comprehensively explores the therapeutic potential of C. pictus in regulating oxidative stress, inflammation, and metabolic dysfunctions associated with diabetes and related disorders. This publication contributes valuable insights to the field of metabolic disease research and highlights the institute's commitment to advancing innovative healthcare and pharmaceutical sciences research.

Dr Avijit Mazumder
Professor & Director

Ms Bhavani Pentela
Assistant Professor

Sushant Jain
Student

Published a review article titled "Drug-Induced Liver Injury: *A Comparative Evaluation of Conventional Biomarkers and Omics-Based Diagnostic Signatures" in the International Journal of Drug Delivery Technology (IJDDT).* The review provides a comprehensive analysis of various forms of Drug-Induced Liver Injury (DILI), highlighting the strengths and limitations of traditional diagnostic biomarkers alongside emerging omics-based diagnostic technologies.

Dr Avijit Mazumder
Professor & Director

Published a research article titled *"Fabrication and Testification of Tailored Liposomes for Targeted Drug Delivery of Celecoxib"* in the *International Journal of Pharmaceutical Sciences and Nanotechnology (IJPSN).* The study focuses on the development of customized liposomal carriers for celecoxib, demonstrating their potential to improve drug permeation, enhance therapeutic efficacy, and reduce the adverse effects commonly associated with the drug.

Ms Shalini Sharma
student

Dr Rupa Mazumder
Dean

Dr Monika
Associate Professor

Mr Rishikesh
Student

Published a research article titled *"Chronic Inflammation (A Silent Killer) - Molecular Mechanisms and Emerging Therapeutic Approaches"* in the journal Current Drug Targets. The article provides a comprehensive overview of the molecular basis of chronic inflammation and explores recent advancements in personalized medicine, AI-driven analytics, digital health technologies, and microbiome research.




Dr Rupa Mazumder
Dean

Dr Rakhi Mishra
Professor

Dr Anjana Rani
Associate Professor

Chittathur Mithun Krishna
PG Student

Published a research article titled *"Advances in Prussian Blue Nanoparticle-Based Anticancer Platforms: Synthesis, Functionalization, and Therapeutic Applications" in the SCI-indexed journal Nanomedicine.* The paper presents a comprehensive overview of Prussian blue nanoparticles and their emerging role in cancer treatment, covering their synthesis techniques, functionalization strategies, and therapeutic mechanisms.




Dr Salahuddin
Professor

Dr Rajnish Kumar
Associate Professor

Ms Shristi Tripathi
Assistant Professor

Ms Trapti Porwal
Student

Published a research article titled *"Piperazine Derivatives as Anticancer Agents: A Medicinal Chemistry Review of Structure, Mechanism, and Clinical Translation"* in Medicinal Chemistry Research. The review provides a comprehensive analysis of piperazine-based compounds as promising anticancer agents, highlighting innovative drug development approaches such as green chemistry, click chemistry, molecular docking, and QSAR-guided design.




Ms Shrishti Tripathi
Assistant Professor

Dr Rajnish Kumar
Associate Professor

Mr Ranjeet Yadav
Assistant Professor

Dr Salahuddin
Professor

Published a review article titled *"Zwitterion: Important Tool for the Regioselective Synthesis of Five-Membered Heterocycles: Mechanistic and Synthetic Perspectives"* in *Chemistry Select*. The article highlights the crucial role of zwitterionic intermediates in the regioselective synthesis of five-membered heterocyclic compounds, offering valuable mechanistic insights alongside practical synthetic applications.

Dr Rakhi Mishra
Professor

Published a research paper titled *"In Silico ADMET Profiling: Evolution from Traditional Models to Deep Learning Techniques" in the journal Current Topics in Medicinal Chemistry.* The study provides a comprehensive review of advanced computational approaches for ADMET (Absorption, Distribution, Metabolism, Excretion, and Toxicity) prediction, tracing the evolution of predictive models from conventional methods to cutting-edge machine learning and deep learning techniques.

- Published a review article, *"Therapeutic Applications of Natural Products in Biomedicine and Pharmacotherapy,"* in the MDPI Life journal. The review presents a critical and integrative analysis of natural products in pharmaceutical chemistry, emphasizing their relevance in contemporary biomedicine and pharmacotherapy.

Dr Salahuddin
Professor

Mr Divya Pratap Rav
Student

Mr Saurabh
Student

Published their review article entitled as *"An Insight into the Structural Modification and Mechanism of Ursolic Acid at C-3 and C-28: Strategy for Searching Anti-Cancer Therapeutics"* in the journal Current Topics in Medicinal Chemistry. The review study states that Ursolic acid (UA) C-3 and C-28 modifications represent viable strategies for developing next-generation UA-based anticancer therapeutics.

Dr Saumya Das
Professor

Published a research paper titled *"Computational Analysis of Coccinia grandis (L.) Derived Compounds as Potential Therapeutic Agents for Alzheimer's Disease and Diabetes" in the International Journal of Drug Delivery Technology (IJDDT).* The study explores the computational evaluation of bioactive compounds derived from Coccinia grandis (L.) as potential inhibitors of key enzymes associated with Alzheimer's disease and diabetes mellitus, highlighting their potential therapeutic significance in the management of these disorders.

Dr Avijit Mazumder
Professor & Director

Dr Saumya Das
Professor

Ms Kavya Chauhan
student

Published a review article entitled *"Integrative Perspectives on Ficus carica (Moraceae): Mechanistic Insights, Phytochemical Diversity, Genetic Basis, and Formulation Potential" in the MSW Management - Multidisciplinary, Scientific Work and Management Journal.* The review comprehensively compiles information on the taxonomic, botanical, and physiological characteristics of Ficus carica, with particular emphasis on the complex biosynthetic pathways of secondary metabolites, including phenylpropanoids, terpenoids, and coumarins.

Dr Saumya Das
Professor

Published a research paper titled *"Integrated In Vivo Evaluation of the Neuroprotective Potential of Colocasia esculenta Leaf Extract in Scopolamine-Induced Cognitive Impairment and Haloperidol-Induced Catalepsy" in the Journal of Neurophysiology*. The study investigates the neuroprotective and anti-cognitive impairment effects of a hydroethanolic leaf extract of Colocasia esculenta (HECE) using established in vivo experimental models. The findings highlight the therapeutic potential of the plant extract in managing neurological disorders, contributing valuable insights to the fields of neuropharmacology and natural product-based drug discovery.

Dr Sushma Verma
Assistant Professor

Published a review article entitled *"Innovations and Bottlenecks in Thermosensitive Polymer Hydrogels for Nose-to-Brain Delivery: A Comprehensive Review" in the journal Drug Delivery Letters.* The article provides a comprehensive overview of recent innovations and existing challenges associated with thermosensitive polymer hydrogel systems for intranasal central nervous system (CNS) targeting. It highlights recent advancements in composite polymer systems, including chitosan–poloxamer blends and PNIPAM–PEG copolymers.

Mr Akshay Kumar
PG student

Dr Anjna Rani
Associate Professor

Published a review article entitled *"Bridging the Gap Between Nanocarrier Research and Regulatory Approval: A Focus on Phytosomes" in the Journal of Chemical Health Risks.* The review critically examines the major challenges hindering the translation of phytosome-based nanocarrier research into regulatory approval, including inconsistencies between preclinical and clinical outcomes, challenges in large-scale manufacturing, lack of standardization of herbal materials, and issues related to batch-to-batch variability.

Mr Milan Chauhan
Student

Ms Archana Singh
Assistant Professor

Dr Avijit Mazumder
Professor & Director

Dr Anjna Rani
Associate Professor

Published a review paper entitled "Proteolysis targeting chimeras (PROTAC) for targeting Alzheimer's disease" in Discover Neuroscience. The paper outlines the future design principles and translational strategies, including brain selective E3 ligases, long-acting and nanotechnology-enabled delivery platforms, rational combinations with autophagy modulators or immunotherapies, and stage specific deployment, that could enable PROTACs to evolve from experimental tools into truly disease-modifying therapies for AD.

Dr Chandana Majee
Associate Professor

Published a review article entitled as "Insight into Recent Methods for Synthesizing Andrographolide Derivatives and their Potential Pharmaceutical Effects" in the journal of Current Topics in Medicinal Chemistry. The review systematically examines evidence from recent literature and patents, emphasizing chemical strategies for modifying the ANDR scaffold, and summarizes biological evaluation results, including cell-based, in vivo, and mechanistic studies of new synthetic and semi-synthetic compounds.

Mr Rachit Sharma
Student

School of Computer Applications

Dr Sakshi Kumar
Assistant Professor & Head

Published a utility Patent titled *"AI-Driven Automated Evaluation System for Coding Assessments in Indian Engineering Education"* (Application No. 202621043039). The invention automates the evaluation of coding submissions through syntax validation, test-case execution, and analysis of code quality, efficiency, and programming standards. A key feature of the system is its ability to provide personalized and actionable feedback to students, enhancing learning outcomes and assessment efficiency.

Faculty Achievements

Department of Biotechnology

Prof Rashmi Mishra
HoD
Delivered an insightful guest lecture on “Empowering Academic Excellence through NAAC & NIRF Frameworks” at the College of Health and Wellness Sciences, Greater Noida, on May 19, 2026. Her session highlighted outcome-based education, research, and national quality benchmarks.
Highlighting her academic standing, Prof. Mishra also serves as an Editorial Board Member for the inaugural issue of the Food Safety and Standards Digest by the FSSAI. Working alongside eminent scientists and regulatory experts, her role reflects her significant institutional contributions to biotechnology, food safety, and advanced academic research.

Dr Arvind Arya
Associate Professor
Conducted a hands-on workshop on “Smart Referencing with Mendeley” on May 29, 2026. Organized in collaboration with the School of Computer Applications and the R&D Cell at NIET Greater Noida, the session provided valuable training on reference management, citation generation, and research workflow optimization. Dr. Arya's insights enhanced the participants' understanding of academic writing and plagiarism-free research practices, greatly benefiting the students, researchers, and faculty members in attendance.

Department of CYS

Dr Rashmi Mishra
Professor & Head
Achieved multiple distinguished academic milestones in early 2026. Demonstrating leadership and research expertise, she served as a Session Chair at MMMUT Gorakhpur's International Conference on Green Technologies and Sustainable Solutions. She was also recognized as an expert Reviewer for the 2nd IEEE International Conference at Gautam Buddha University, upholding strict academic rigor. Furthering strategic institutional networks, Dr. Sharma participated in the IEEE UP Section WiE Advisor & Student Chair Meeting in Ghaziabad. Celebrating International Women's Day, she also featured as a prominent speaker at Galgotias University's Women Leadership Conclave, inspiring dialogue on female leadership in technology and innovation.

Department of DS

Dr Saurabh Srivastava
Assistant Professor

Successfully completed a Postdoctoral Research Fellowship at Kuala Lumpur University of Science & Technology (KLUST), Malaysia. His research project, "Quantum-Inspired Deep Learning Framework for Intelligent Plant Disease Classification," focused on advancing AI-enabled agricultural diagnostics. By leveraging cutting-edge machine learning techniques to improve crop health assessment.

Ms Honey Singh
Assistant Professor

Successfully secured the publication of an Indian patent titled "A System and Method for Artificial Intelligence-Based Marketing Integrated Consumer Creditworthiness Assessment." Their innovation leverages advanced artificial intelligence and data analytics to optimize consumer profiling and credit risk evaluation. By bridging the gap between predictive risk modelling and targeted advertising, their work showcases the powerful, growing application of AI-driven solutions in modern finance and digital marketing.

Dr Nidhi Sharma
Associate Professor

Ms Manisha Pundir
Assistant Professor

Ms Rachna Sharma
Assistant Professor

Ms Nisha Verma
Assistant Professor

Organized and chaired a Special Session on "Computational Intelligence for Engineering, Science and Business" during INDIACom-2026. In addition to guiding the session's research presentations, they contributed to the event's rigorous review standards by serving as members of the Technical Programme Committee. Their dedication to the international conference earned them Certificates of Appreciation, highlighting their commitment to advancing global academic exchange.

Mr Chandrapal Singh Arya
Assistant Professor

Secured the publication of an Indian patent titled "A Secure and Scalable Federated Learning System for Efficient Brain Tumor Segmentation with Enhanced Data Privacy Mechanisms." The innovation introduces a privacy-preserving artificial intelligence framework designed for complex medical image analysis. By enabling collaborative machine learning without exposing sensitive patient records, his system contributes a highly secure, scalable solution to modern digital healthcare technologies.

Department of Languages

Dr Shormita Bose
Assistant Professor

Was inducted as a member of the Editorial Board for the Edwin Group of Journals. This recognition reflects her academic expertise, research contributions, and commitment to advancing scholarly publication and quality research dissemination. The achievement highlights the growing academic recognition of faculty contributions at national and international levels.

Chaired a session at the First International Conference of the World Association of Authors and Researchers, organized by PRPS College, Darbhanga. As Session Chair, he facilitated academic discussions and scholarly interactions among researchers and participants, contributing to the successful conduct of the international conference. This achievement reflects active engagement in academic leadership and scholarly collaboration at an international platform.

Dr Krishna Kumar
Assistant Professor

School of Computer Applications (MCA)

Dr Sakshi Kumar
Assistant Professor & Head

Was honoured as the Chief Editor of the book Prompt Engineering: Concepts, Techniques & Applications in the Age of Generative AI (ISBN: 978-93-91865-89-4), published by Gyan Vandana Publications. The text explores the core fundamentals of prompt engineering and presents advanced techniques for leveraging Generative AI across diverse, real-world fields. Featuring contributions from domain experts, this comprehensive resource serves as a guide for students, researchers, and industry professionals seeking to effectively harness the transformative power of artificial intelligence.

NIET Pharmacy Institute

Had the honour of serving as a Session Chair at the International Conference on “Emerging Technologies in Drug Discovery, Development & Delivery,” organized by the Metro College of Health Sciences & Research on May 2, 2026. His leadership in this academic event reflects his deep expertise and contributions to pharmaceutical sciences. This achievement highlights the institute's strong academic presence and commitment to advancing innovation and excellence in global healthcare research.

Dr Avijit Mazumder
Director, Pharmacy

Dr Rakhi Mishra
Professor

Chaired a Session at the DRDO-sponsored National Conference on "Recent Trends of Artificial General Intelligence (AGI) in Strategic Health Systems – Building a Resilient Nation," organized by Vidya University on April 29–30, 2026. Her role underscored her academic leadership and expertise in fostering interdisciplinary research at the intersection of pharmaceutical sciences, artificial intelligence, and advanced healthcare technologies. This achievement reflects her valuable contribution to innovation and knowledge exchange in emerging healthcare domains.

Dr Saumya Das
Professor

Served as an Online Scientific Evaluator at the hybrid International Conference on "Emerging Technologies in Drug Discovery, Development & Delivery," organized by the Metro College of Health Sciences & Research, where she evaluated cutting-edge research presentations to ensure scientific rigor. Additionally, Dr. Das secured a spot in the top 1% of successful candidates globally in the NPTEL online certification course Healthcare Entrepreneurship, earning a perfect score of 100%. These outstanding accomplishments highlight her deep academic excellence and dedication to continuous learning at the intersection of pharmaceutical research, healthcare management, and entrepreneurial development.

Dr Chandana Majee
Associate Professor

Contributed as an Online Evaluator for the Poster Presentation session at the hybrid International Conference on "Emerging Technologies in Drug Discovery, Development & Delivery," organized by Metro College of Health Sciences & Research on May 2, 2026. In this role, she assessed research posters to promote innovation and scientific excellence.

Ms Soumya Mishra
Assistant Professor

Successfully defended her final Ph.D. viva voce at GLA University under the mentorship of Dr Rupa Mazumder, receiving wide appreciation for the quality and significance of her research. Her doctoral thesis, titled "Transdermal Targeted Drug Delivery System for the Treatment of Gout," focuses on developing advanced, targeted drug delivery approaches

Ms Swati Yadav
Assistant Professor

Successfully defended her final Ph.D. viva voce at GLA University under the mentorship of Dr Rupa Mazumder. Her doctoral thesis, titled "Development and Evaluation of Oral Controlled Release Formulation of Poorly Bioavailable Herbal Bioactives," focuses on enhancing the therapeutic efficacy and bioavailability of herbal compounds.

Ms Sonia Chauhan
Assistant Professor

Successfully defended her final Ph.D. viva voce at GLA University under the guidance of Dr Rupa Mazumder. Her doctoral thesis, entitled "Formulation and Evaluation of Herbal Bioactives-based Sustained Release Formulation for the Management of Inflammatory Bowel Disease," explored the development of advanced sustained-release delivery systems. Her innovative research aims to optimize targeted delivery, improve therapeutic management, and enhance patient compliance in treating inflammatory bowel disease (IBD).

Students Achievements

Department of AIML

Mr Prateek Yadav

Presented a paper titled “Drone-Based Detection of Floating Marine Debris Using YOLOv8” at the IEEE International Conference on AI Engineering and Innovations (AIEI). Their work integrates drone technology with the YOLOv8 deep learning model to accurately detect ocean waste, contributing to marine conservation. This achievement highlights their strong research aptitude and innovative application of AI to solve critical, real-world environmental challenges.

Ms Siddhi Arora

Department of CSE

Mr Aaditya Bisht

Final-year M.Tech Integrated CSE

Published his research paper titled “AI-Based Early Prediction of Stress and Mental Health Issues Using Wearable Sensor Data” at the IEEE co-sponsored ICECI 2026 conference on May 20, 2026. Developed under the guidance of Dr Kumud Saxena and Ms Sana Anjum, the innovative AI framework utilizes real-time wearable sensor data to forecast stress, significantly improving early clinical intervention and proactive health monitoring.

Mr Saurabh Malik

Final-year M.Tech Integrated CSE

Published his research paper, “Enhancing Soil Health Card (SHC) Recommendations Through Site-Specific and Rotation-Aware Nutrient Management,” at the AKGEC 2026 conference in Ghaziabad on April 30, 2026. Guided by Dr Rashmi Sharma and Ms Aditee Mattoo, his study introduces an intelligent framework that factors in localized conditions and crop rotation to optimize fertilizer use, boosting soil fertility and driving sustainable agricultural productivity forward.

NIET Pharmacy Institute

Mr Chittathur Midhun Krishna

2nd Year M. Pharm (Pharmaceutics) student

Has been selected for the prestigious NPTEL Postbac/Pre-Doc Fellowship at the Indian Institute of Science (IISc), Bangalore. This remarkable achievement grants him the exclusive opportunity to engage in advanced research at one of India's premier scientific research institutions. His selection reflects outstanding academic excellence, immense research potential, and the Department of Pharmacy's continued commitment to fostering a vibrant, high-impact research culture among its students.

Ms Yagya Dadhich
M.Pharm (Pharmacology)

Secured Second Position in the Oral Presentation category at the International Conference on Healthcare and AI (ICHAI), held at IIMT College of Pharmacy on April 2–3, 2026. She was recognized for her research titled "Apigenin Driven Modulation of Dopaminergic Neurodegeneration through Nrf2, NF-kB and MAO-B Pathways in Parkinson's Disease," highlighting her research excellence and contribution to advancing therapeutic insights in neuropharmacology.

Secured third position in the E-Poster Presentation category at the DRDO-sponsored National Conference organized by Vidya University on April 29–30, 2026. She earned this recognition for her research presentation titled "Epilepsy: Mechanisms, Management, and Emerging Therapies."

Ms Akshika Rana
M.Pharm (Pharmaceutical Chemistry)

Ms Surbhi Pal
M.Pharm (Pharmaceutical Chemistry)

Secured the Second Position in the Oral Presentation category at the DRDO-sponsored National Conference organized by Vidya University on April 29–30, 2026. She received this recognition for her presentation titled "Artificial Intelligence in Early Diagnosis of Parkinsonian Disease."

Achieved a remarkable milestone by securing a place among the top 2% of successful candidates globally in the NPTEL online certification course General Pharmacology. She earned an outstanding score of 87%, demonstrating exceptional academic excellence and a deep commitment to continuous learning, and bringing great pride to the institution.

Ms Sakshi Jaiswal
M.Pharm (Pharmacology)

Editorial Note: Embracing Milestones and New Beginnings

Dear Reader

Welcome to the June '26 edition of Pulse. This issue reflects the vibrant energy, dedication, and outstanding achievements that define our academic community. From rigorous academic milestones to innovative tech pursuits and strategic faculty development, every page highlights our shared commitment to institutional excellence and continuous growth. We extend our sincere gratitude to everyone who contributed to this edition and to our readers for their continued support.

This was a month of defining academic benchmarks and institutional precision. The End Semester Examinations for the Even Semester were successfully conducted across the campus. Through meticulous planning and strict adherence to protocols, the Examination Cell maintained the highest standards of academic integrity, reinforcing our dedication to evaluation excellence.

Simultaneously, our educators and researchers actively engaged in upskilling. The School of Computer Applications, in association with the R&D Cell, hosted an enriching workshop on "Smart Referencing with Mendeley" to streamline research workflows. Furthermore, the Department of CSE (Data Science) successfully organized two major Faculty Development Programs: one focused on "Mastering Academic Research Writing" and another centred on integrating traditional frameworks via "Indian Knowledge Systems". The Department of Information Technology furthered this pedagogical growth by collaborating with NITTTR Chandigarh for a comprehensive 5-Day FDP on "Effective Teaching-Learning Using Social Media".

In the arena of technical innovation, our students continue to push boundaries. At the InnovateX–NIET 1.0 36-hour hackathon, an MCA Integrated team emerged as the grand winners. Their IoT-based project, a Food Waste Tracking and Management System using ESP32 and camera modules, earned widespread appreciation and a cash prize of ₹20,000 for promoting sustainability.

Expanding their learning far beyond the classroom, MCA students also gained distinct industry insights during an exposure visit to the News18 India Studio. They stood as live audience members for the renowned debate show Aar Paar, observing television broadcasting and public discourse firsthand during election results coverage. Meanwhile, the Department of CSE (Cyber Security) fostered a high-octane research and technical culture by organizing national-level events, including the "Ghost Protocol CTF 2026" hackathon focused on AI-driven R&D , the "Cyber Security Roadmap" event in collaboration with EC-Council , and the "Research Spark 2" initiative.

The true emotional highlight of the month was the grand, collective celebration of our graduating students as the entire institution came together to bid a heartfelt adieu to the Batch of 2026. The campus was transformed into a hub of mixed emotions, featuring high-energy cultural performances, musical presentations, nostalgia-filled interactive games, and exciting title ceremonies. Faculty members and juniors extended their warmest expressions of deep gratitude, honouring the academic journeys, hard work, and lasting contributions of our seniors. While the final group photographs captured smiles and tears, the close-knit bonds of the NIET family shone brighter than ever.

In conclusion, whether you are pioneering sustainable IoT solutions, mastering advanced pedagogy, or stepping out into the professional world as proud alumni, you continue to make NIET excel beyond limits. We wish our graduating batch and the entire community a fantastic, productive, and inspiring journey ahead.

Stay Connected. Stay Inspired.

Team Pulse

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Enquiry

+91-8010 500 700

admission@niet.co.in | www.niet.co.in

19, Knowledge Park-II, Institutional Area,
Greater Noida (UP)

Designed by

• Mr Junaid Saifi • Mr Raman Pal