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PROF. LE HOANG SON

FACE OF COVER

Vice Director

VNU Information Technology Institute, Vietnam National
University (VNU), Hanoi, Vietnam

UTKARSİİ

GLBITM RESEARCH NEWS LETTER
SEPTEMBER-OCTOBER 2025



GL BAJAJ

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Message from Face of Cover

PROF. LE HOANG SON

Vice Director

VNU Information Technology Institute,
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Pioneering Progress Through Research Excellence

Dear Esteemed Readers,

It is with profound honor and heartfelt appreciation that I share my thoughts as the featured face of the May–September 2025 edition of the Research Newsletter of G. L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida. I extend my sincere gratitude to the leadership of GLBITM for this recognition and for showcasing my academic journey on such a distinguished platform. I am Prof. Le Hoang Son, currently serving as the Vice Director of the VNU Information Technology Institute at Vietnam National University, Hanoi. I received my Ph.D. in Mathematics and Information Technology from the University of Science, VNU Hanoi, under a joint program with Politecnico di Milano, Italy, in 2013, and was awarded the title of Associate Professor of Information Technology in 2017. Over the years, I have contributed to the fields of Artificial Intelligence, High-Performance Computing, and Digital Transformation, publishing more than 200 research papers in prestigious international journals and conferences. My academic journey has been guided by an enduring passion for knowledge creation and application. I have had the privilege to serve as Senior Researcher and Deputy Director of the Center for High-Performance Computing, VNU Hanoi, and as Consultant to the Government Office of Vietnam from 2018 to 2020. From 2021 to 2025, I participated in national policy consultations on AI and digital transformation, helping shape Vietnam's technological development. My work has been recognized with several honors, including the VNU Young Scientist Research Award (2014), Vietnam

Mathematics Award (2015), and Certificates of Merit from the VNU President for outstanding international research contributions. Being named among the 10,000 most influential scientists in the world for six consecutive years (2019–2024) is both humbling and motivating. It reaffirms my belief that research, when guided by purpose and collaboration, can transcend boundaries and bring lasting impact. In this regard, GLBITM stands as an inspiring example of an institution that values innovation, interdisciplinary research, and academic excellence. The vibrant research culture I have witnessed here—driven by passionate faculty, inquisitive scholars, and visionary leadership—reflects a clear commitment to shaping a knowledge-driven society. This newsletter exemplifies GLBITM's pursuit of intellectual excellence and social progress. Beyond being a compilation of scholarly achievements, it represents a dialogue of ideas, creativity, and shared vision. The institute's achievements—its NAAC A+ accreditation, NBA program accreditations, and its growing research ecosystem—testify to its relentless pursuit of quality and global standards. I encourage readers to explore this edition with curiosity and pride, as each contribution embodies innovation, resilience, and the transformative power of knowledge. My heartfelt congratulations to the editorial team and the GLBITM community for sustaining such a meaningful initiative. May this spirit of research and discovery continue to inspire new collaborations and illuminate the path toward a brighter, technology-empowered future.

Message from Patrons



MR. PANKAJ AGARWAL

Vice Chairman

G.L. Bajaj Institute of Technology and Management, Greater Noida



MR. KARTIKAY AGARWAL

CEO

G.L. Bajaj Institute of Technology and Management, Greater Noida

A Vision Realized: Advancing Our Research Endeavors

Dear Scholars, Innovators, leadership Team and Researchers,

As the Vice Chairman of G.L. Bajaj Institute of Technology and Management, Greater Noida, and your Chief Patron, I congratulate the Editorial team to come out with this *Research Newsletter 'Utkarsh'*. This initiative embodies the realization of our long-standing vision—to establish GLBITM as a beacon of excellence in innovation, research, and academic growth.

Over the years, GLBITM has earned a distinguished reputation, marked by consistent achievements and a commitment to advancing knowledge. This *Research Newsletter* is more than a publication; it is a testament to our shared dedication, highlighting the intellectual rigor, creativity, and problem-solving mindset of our faculty and students. It serves as a vital platform to exchange ideas, foster interdisciplinary collaboration, and nurture a research-driven culture that reaches beyond institutional boundaries.

I extend my sincere appreciation to our faculty, students, administrative teams, and industry partners whose dedication and efforts have made this endeavour possible. As you engage with the articles in this edition, I hope it ignites curiosity, inspires innovation, and reinforces our collective commitment to research excellence.

Together, let us continue to push boundaries—questioning, discovering, and innovating—to shape a future defined by knowledge, creativity, and lasting impact.

A New Chapter in Research and Innovation Begins

Dear Researchers, Innovators,
and Knowledge Seekers,

It gives me immense pleasure to introduce the *Research Newsletter* of G.L. Bajaj Institute of Technology and Management, Greater Noida. This initiative marks an important step forward in our ongoing commitment to strengthening the research ecosystem and cultivating a vibrant culture of academic excellence.

GLBITM has always believed in empowering minds through knowledge and innovation. This newsletter reflects that vision—a dedicated platform to highlight the outstanding research contributions of our faculty and students. It serves not only as a channel for sharing impactful findings but also as a catalyst for expanding our global footprint in research and development.

Through this initiative, we aim to inspire collaborative thinking, encourage interdisciplinary engagement, and promote solutions to real-world challenges. I extend my sincere appreciation to all contributors and supporters who have brought this vision to life. Together, let's continue advancing research as a powerful force for progress and transformation.

Message from Editors



DR. PREETI BAJAJ

Director

G.L. Bajaj Institute of Technology and Management, Greater Noida

Fostering Excellence and Innovation: A Message from the Director

Dear Esteemed Mentors, Leaders, Teachers, Researchers and Community at Large, Greetings from G.L. Bajaj Institute of Technology and Management, Greater Noida.

As Director of G.L. Bajaj Institute of Technology and Management, Greater Noida, and Patron of this monthly research newsletter, I take immense pride in seeing this vibrant platform continue to thrive as a reflection of our institute's dedication to fostering a dynamic, research-driven academic culture. This newsletter remains a powerful medium for showcasing groundbreaking research, facilitating interdisciplinary collaboration, and highlighting the significant contributions of our faculty and students to the global academic community.

At GLBITM, we are deeply committed to nurturing a culture of inquiry and innovation. Our vision is to empower students and faculty to pursue high-impact research that addresses both local and global challenges. This ongoing publication plays a pivotal role in reinforcing that vision—by sharing diverse research outcomes and thought leadership, it not only informs but also inspires deeper engagement in meaningful scholarly work.

This platform strengthens our collective ambition to continually elevate research standards. By celebrating achievements and fostering a spirit of curiosity and innovation, it motivates our community to push boundaries and set new benchmarks. In doing so, we advance GLBITM's reputation as a leader in technological and managerial education, while contributing robustly to India's research ecosystem and global knowledge networks.

Our NAAC A+ accreditation and NBA-certified programs underscore our commitment to excellence, but it is through consistent scholarly effort that we truly distinguish ourselves. This newsletter exemplifies that ongoing pursuit—highlighting research that enhances learning, drives progress, and positions GLBITM as a beacon of academic and research excellence.

Heartiest congratulations to the editorial team, contributors led by Prof Rohit Sharma Dean Research and Development and the entire GLBITM family for your relentless pursuit of knowledge and innovation. Let us continue to harness this platform to inspire, collaborate, and lead—raising the bar for research impact locally and globally.



DR. ROHIT SHARMA

Dean(R&D)

G.L. Bajaj Institute of Technology and Management, Greater Noida

As Dean of Research & Development at G.L. Bajaj Institute of Technology and Management, Greater Noida, I am delighted to witness the continued growth of this monthly research newsletter—a platform that truly embodies our institute's unwavering commitment to advancing high-quality research, innovation, and academic excellence. This publication stands as a testament to the vibrant research culture we have collectively cultivated at GLBITM, serving not only as a repository of scholarly contributions but also as a catalyst for interdisciplinary collaboration and intellectual exploration.

At GLBITM, our mission has always been to empower faculty, scholars, and students to engage in impactful research that addresses the pressing needs of society while contributing meaningfully to the global knowledge ecosystem. Through this newsletter, we bring forward diverse research accomplishments, novel ideas, and significant academic milestones that reflect the dedication, rigor, and passion of our research community. It continues to inspire curiosity, promote critical thinking, and strengthen the spirit of innovation across all departments.

With over 15 years of experience in academia and administration, and having worked extensively in high-impact research domains—with more than 200 international publications, 27 authored books, multiple patents, and editorial roles across globally recognized journals—I take immense pride in the research progression at GLBITM. The excellence displayed by our faculty and students resonates strongly with our vision of becoming a premier center of research, innovation, and technological advancement. Our collective achievements, including NAAC A+ accreditation and NBA-certified programs, are not merely institutional milestones but reflections of our consistent pursuit of quality and innovation. This newsletter further amplifies that pursuit by showcasing outstanding research outcomes and fostering a collaborative ecosystem that strengthens GLBITM's position in India's academic landscape and beyond. I extend my heartfelt appreciation to the editorial team, contributors, researchers, and the entire GLBITM fraternity for their relentless efforts in sustaining this academic endeavor. Let us continue to use this platform to push boundaries, exchange knowledge, and elevate the research standards of our institute—driving meaningful impact at both national and global levels.

GLBITM - AT A GLANCE

G.L. Bajaj Institute of Technology and Management (GLBITM), located in Greater Noida, Uttar Pradesh, stands as a distinguished centre of higher education in engineering, management, and computer applications. Established with the mission to nurture skilled professionals, leaders, and innovators, the institute has consistently maintained a strong academic reputation in the region. Governed by the Rajeev Memorial Academic Welfare Society (registered under the Societies Registration Act, 1860), GLBITM is a self-financed institution approved by the All India Council for Technical Education (AICTE), Ministry of Education, Government of India, and affiliated with Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow.

The institute offers a wide array of undergraduate and postgraduate programs, including B.Tech, MBA, and MCA, ensuring comprehensive academic growth. Over the years, GLBITM has secured a leading position among engineering and management institutions under AKTU by consistently achieving top results and maintaining the highest pass percentage in the Noida and Greater Noida region for the last eight years. Its academic excellence has also been recognized at the national level, with the institute being listed among India's top engineering colleges by NIRF (MHRD).

GLBITM holds the unique distinction of being the only private institute in Uttar Pradesh to earn the prestigious NAAC A+ grade in its first cycle of accreditation, reflecting its exceptional standards in teaching-learning processes, research, governance, and infrastructure. Additionally, all eligible engineering departments are accredited by the National Board of Accreditation (NBA), further cementing its commitment to quality education.

The campus of GLBITM is spread across a modern, well-planned environment equipped with state-of-the-art infrastructure. It features technologically advanced classrooms, well-equipped laboratories, a central library with an extensive digital and physical collection, and sophisticated computing facilities. The institute also promotes holistic development through diverse sports amenities, clubs, and recreational spaces.

Industry exposure forms a vital component of the institute's academic ecosystem. Regular workshops, seminars, guest lectures, and corporate interactions ensure that students remain aligned with current industry trends. The dedicated placement cell consistently secures strong placement offers for graduating students from leading multinational companies and reputed organizations.

Research and innovation form an integral part of the institute's ethos. GLBITM encourages faculty members and students to pursue research activities, fostering a culture of inquiry and discovery. With numerous research centres and innovation labs, the

institute actively collaborates with national and international universities, industries, and academic bodies.

Up to October 2025, GLBITM has demonstrated remarkable research accomplishments and metrics based on Scopus data. The institute has published 2296 papers and achieved 19,688 citations, reflecting its strong research footprint. The publication categories include 1113 conference papers, 814 articles, 245 book chapters, and 54 review papers. Furthermore, the institute has established research collaborations with 150 universities and institutions worldwide and maintains an impressive H-Index of 56 in Scopus. Notably, 64 publications were recorded in October 2025 alone.

A distinguishing feature of GLBITM's academic ecosystem is its strong network of Centers of Excellence (CoEs), established in collaboration with leading global technology organizations. These Centres of Excellence serve as advanced hubs for hands-on learning, research, innovation, and industry-oriented skill development. They enable students to gain practical exposure to cutting-edge technologies and emerging tools while bridging the gap between classroom learning and real-world applications.

With around 50 patents filed and granted, the institute continues to advance cutting-edge research and foster a spirit of technological innovation.

The institute proudly hosts several high-impact CoEs, such as the Palo Alto Cybersecurity Centre of Excellence, which provides state-of-the-art training in network security, threat intelligence, and cyber defence. The Wipro Centre of Excellence enhances competency in next-generation digital technologies and enterprise solutions, while the NVIDIA Deep Learning & AI Lab empowers students and researchers to explore artificial intelligence, machine learning, and GPU-accelerated computing. Additionally, GLBITM houses specialized centres such as the Cisco Networking Centre, the SAP Centre of Excellence, and other domain-focused labs that offer globally recognized training modules, certifications, and experiential learning opportunities.

These Centres of Excellence not only strengthen technical expertise but also foster innovation, entrepreneurship, and skill-based learning. They play a pivotal role in preparing students for the rapidly evolving technology landscape and in ensuring that graduates of GLBITM are industry-ready, globally competitive, and aligned with the expectations of leading organizations.

Overall, GLBITM stands as a premier academic institution dedicated to excellence in education, research, and holistic student development. Through its world-class infrastructure, strong industry linkages, high-quality academic environment, and commitment to innovation, the institute continues to shape competent, responsible, and future-ready professionals.



Overview OF GLBITM RESEARCH



The Research and Development department at GLBITM is committed to achieving these vision and mission objectives, guided by our core values of excellence, innovation, collaboration, and societal impact. Through our dedicated efforts, we aspire to contribute significantly to the advancement of science and technology, preparing our students to be leaders in their fields and driving positive change in the world.

At G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida, our vision for Research and Development (R&D) is to be a globally recognized center of excellence in research, fostering innovation and advancing knowledge in engineering, technology, and management. We aim to create an ecosystem that nurtures creativity, encourages interdisciplinary collaboration, and contributes significantly to the betterment of society, the environment, and the global economy.

Vision



Mission OUR MISSION IS TO:

- **Promote a Research-Intensive Culture:** Cultivate an environment where faculty, students, and researchers are encouraged to pursue their research interests, pushing the boundaries of knowledge and innovation.
- **Foster Interdisciplinary Collaboration:** Encourage collaboration across different disciplines within the institute and with national and international research organizations, industries, and academic institutions to address complex global challenges.
- **Enhance Research Infrastructure:** Continuously upgrade our research facilities and resources to provide a state-of-the-art environment that supports cutting-edge research and development activities.
- **Focus on Societal Impact:** Direct our research efforts towards solving real-world problems that benefit society, contributing to sustainable development and improving the quality of life.
- **Strengthen Industry-Academia Linkages:** Establish strong connections with industry to ensure that our research is relevant and contributes to technological advancements, innovation, and entrepreneurship.
- **Promote Global Research Collaborations:** Engage in partnerships with leading international universities and research institutions to enhance the global impact and visibility of our research, facilitating exchange programs, joint research projects, and publications.
- **Encourage Research Excellence:** Recognize and reward outstanding research contributions and achievements of our faculty and students, fostering a culture of excellence and continuous improvement.

Glimpses of month SEPTEMBER/OCTOBER'25

EVENTS ORGANIZED BY DEPARTMENTS



1

EVENT NAME: TECH TALK 2.0

Date: 26 September, 2025

Deptt: CSE-AIML

The department hosted an inspiring Tech Talk featuring Raj Vikramaditya, popularly known as Striver, a renowned figure in the coding world. He guided students on placement strategies, career growth, and mastering coding skills. His insights motivated attendees to pursue excellence and prepare effectively for future opportunities in the tech industry.



2

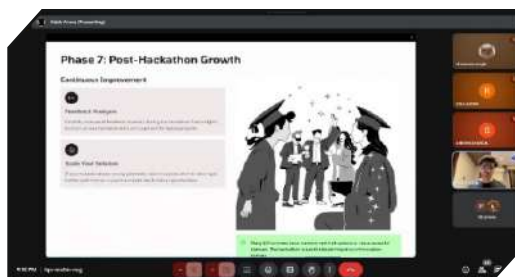
EVENT NAME: DIGITAL DIALOGUE 5.0 (SIH EDITION)

Date: 12 September, 2025

Deptt: CSE-AIML

The department organized an insightful session on Smart India Hackathon (SIH), featuring speaker Kabir Arora. He guided students on the objectives, structure, and benefits of SIH,

encouraging innovation and problem-solving. The session inspired participants to explore real-world challenges and prepare for impactful contributions through this national-level initiative.



3

NAME OF EVENT: “DATA ANALYTICS BOOTCAMP: A STEP TOWARDS FUTURE SKILLS”

Date: 12 September, 2025

Deptt: CSE-DS

The Yuktikula Club of the Department of Computer Science & Engineering (Data Science) at GL Bajaj Institute of Technology & Management, under the Centre of Excellence (Data Visualization), in collaboration with EDUNET Foundation, successfully organized the Data Analytics Bootcamp on 12th September 2025. The session began with a warm welcome to the speaker, Ms. Drishti, along with dignitaries from EDUNET Foundation, the HoD Dr. Harikesh Singh, faculty coordinators, and students. The program opened with an insightful overview of the importance and benefits of Data and Data Analytics, followed by student registrations for IBM Certifications through the EDUNET platform. Ms. Drishti delivered an engaging talk introducing key terms of data analytics, its role in business decision-making, and practical applications through real-world examples and interactive discussions. The session concluded with a felicitation ceremony, where the EDUNET Foundation members were honored by the HoD for their valuable contributions. Students from CSDS, CSE-AI, and AIML departments actively participated in the event. The audience appreciated the smooth coordination, informative content, and impactful learning experience.



4

MANTHAN 2025

Date: 17 September, 2025

Deptt: ECE

The Anvitha Club of ECE department successfully organized Manthan 2025 on September 17, 2025, at the SBG Hall, GL Bajaj Institute of Technology and Management. The fest was designed to foster innovation, intellectual exchange, and student engagement through competitive and interactive activities. A major highlight of the event was the official launch of the Anvitha Club ECE website, marking a new digital platform to connect students, share updates, and showcase departmental activities.



5

NAME OF EVENT: “HANDS ON SESSION IN GENERATIVE AI WITH ANUJ SAINI”

Date: 30 September, 2025

Deptt: CSE-DS

The event commenced with a plant token presentation, symbolising a gesture of respect and gratitude towards the invited speaker. This was followed by an insightful session on Generative Artificial Intelligence, during which the speaker emphasised its growing importance and transformative role across various industries. The discussion also highlighted the future of job prospects in the era of AI, along with a clear distinction between Discriminative AI (focused on classification) and Generative AI (focused on creation). Core concepts of Machine Learning,

Deep Learning, and Large Language Models (LLMs) were introduced, with applications spanning text, vision, and multimodal tasks. A notable feature of the program was the hands-on activity on resume parsing and job description matching using LLMs, which offered participants practical exposure to AI applications. The session also included an interactive Q&A, where students actively engaged with the speaker to clarify concepts and gain career-related insights. Towards the conclusion, participants were introduced to the Groq API, which demonstrated the possibilities of high-speed AI model execution.



6

INTRODUCTION TO LOGISIM 7.2

Date: 15 September, 2025

Deptt: ECE

The session of designing and simulating digital logic circuits conducted by the Anvitha Club, part of the ECE department, was successfully held on September 15, 2025. This informative and engaging session aimed to familiarize students with Logisim7.2

The event commenced at 2:50 PM with warm greetings and with the introduction DR. GANGA PRASAD PANDEY (ASSISTANT PROFESSOR, PDPU AHMEDABAD). The Professor outlined the importance of software Logism on google meet session, emphasizing the importance of electronic simulation of circuits on Logism7.2. This point was further reinforced by our esteemed faculty coordinator, Dr. Dinesh Kumar Singh.



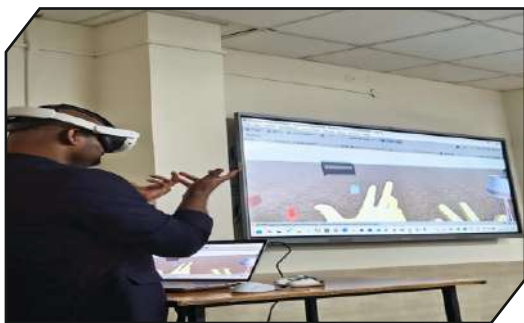
7

AR/VR CENTRE OF EXCELLENCE FOR 2025–2026 WITH INDUSTRY EXPERTS

Date: 1 September, 2025

Deptt: CSE

The Department of Computer Science & Engineering, GL Bajaj Institute of Technology & Management, has proudly inaugurated its AR/VR Centre of Excellence for the academic session 2025–2026 (Odd Semester). The training program is conducted in collaboration with Aalgorix and is led by industry experts. Mr. D. Kannan R, with over 12 years of experience in Unity, C#, AR/VR/MR, and Game Development, brings vast knowledge from his training at Capgemini, CDAC, HCL, and L&T. Mr. R. Singh, with more than 7 years of experience in XR (VR/AR/MR), Metaverse, and Multiplayer Games, has worked on AI-driven apps, VR worlds, and Meta Quest platforms. The program is coordinated by Mr. Shikhar Pandey, Assistant Professor, CSE Department, under the guidance of Dr. Sansar Singh Chauhan, Head of Department, CSE.



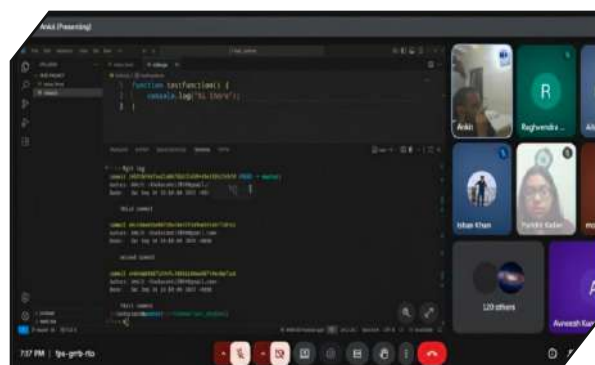
8

CODE & COMMIT BY SHRINIK CLUB

Date: 20 September, 2025

Deptt: CSE

The event “Code & Commit with Mr. Ankit.T”, organized by Shrinik Club, CSE Department, GL Bajaj Institute of Technology & Management, was held on 20th September 2025 via Google Meet and turned out to be a wonderful opportunity for students to explore one of the most essential tools in software development—Git. With the enthusiastic participation of over 100 students, the session created a lively and engaging learning atmosphere. Mr. Ankit delivered an interactive workshop that introduced the fundamentals of Git and guided students through practical aspects such as creating and switching branches, working with remote repositories, merging changes, and exploring smart Git tooling tips. His clear explanations and live demonstrations made it easy for students to connect theory with practice, helping them gain confidence in collaborative development.



9

TECH TRIVIA 2025 BY BIS CLU

Date: 26 September, 2025

Deptt: CSE

The Department of Computer Science & Engineering, G.L. Bajaj Institute of Technology and Management, in collaboration with the Bureau of Indian Standards (BIS), Noida Branch Office, successfully organized the innovative and knowledge-driven poster presentation, “Tech Trivia 2025”, on 26 September 2025 under the banner of the BIS Club of the CSE Department. Speaking on the occasion, Mr. Vishvendra Tanwar, Standard Promotion Consultant at BIS, highlighted the organization's pivotal role in formulating and implementing quality standards for products and services, ensuring safety, reliability, and excellence through certification, hallmarking, and standardization across industries. He also discusses the role of the standard club in the technical institute. Dr. Sansar Singh Chauhan, Head of the Department, emphasized the significance of such initiatives in equipping students to tackle emerging technologies and industry challenges. The first prize carried a reward of ₹5,000, the second prize ₹3,000, the third prize ₹2,000, along with three consolation prizes of ₹1,000 each. Dr. Pushpa was BIS Mentor and Dr. Vrinda was faculty coordinators for this event.



10

ज्ञानदीप Award Ceremony 2025

Date: 19 September, 2025

Deptt: R&D CELL

The ज्ञानदीप Award Ceremony recognized outstanding faculty members for their remarkable contributions. The Research Excellence Award was conferred upon Dr. Ambuj Saxena (ME) and Dr. Purnendu Shekhar Pandey (ECE). The Consistent Performance Award was presented to Dr. Sanjeev Kumar (MCA), Dr. Krishanu Kundu (ECE), and Dr. Pankaj Kumar (CSE). The Young Faculty Excellence Award was awarded to Ms. Aradhna Saini (CSE) and Mr. Mohammad Anas (MBA). The Diversity & Inclusion Award was conferred on Dr. Payal Garg (CSE), Ms. Shweta Singh (MBA), Ms. Deepkiran Munjal (MCA), and Ms. Priyanka Datta (EEE). The prestigious Dronacharya Award was given to Dr. P. C. Vashist (CSIT) and Dr. Purnendu Shekhar Pandey (ECE).



11

MOU SIGNING CEREMONY, AND INTERNATIONAL GUEST LECTURE

Date: 19 September, 2025

Deptt: R&D CELL

The institute had the privilege of hosting a distinguished delegation from the University of Malta, Europe, including Prof. Carl James Debono, Dean, Faculty of Information & Communication Technology (accompanied by family), Prof. Lalit Garg, Professor of Computer Information Systems, Faculty of ICT, and Prof. Neville Calleja, Head of Department, Public Health, Faculty of Medicine & Surgery. Their presence and interactions paved the way for stronger global academic and research collaborations. A landmark announcement was also made during the occasion, with the University of Malta extending an invitation to G. L. Bajaj students to visit Malta in December 2025 with full funding support, offering an excellent opportunity for global exposure and learning. The day-long program witnessed enthusiastic participation from Deans, HoDs, faculty members, students, and international delegates, marking another milestone in the institute's pursuit of academic excellence, inclusivity, and international partnerships.



12

DEEKSHARAMBH- 2025

Date: 22-23 September, 2025

Deptt: MCA

The Department of MCA at G.L. Bajaj Institute of Technology & Management, Greater Noida, organized a two-day Orientation Program on 22nd–23rd September 2025 to welcome the first-year MCA students of the 2025–26 batch. The program, held at SBG Hall, aimed to introduce the new entrants to the academic environment, institutional culture, and professional opportunities awaiting them. The inaugural session on Day 1 began with a Welcome Address by the Anchors, followed by the traditional lamp lighting and Saraswati Vandana, symbolizing the pursuit of knowledge. The program was graced by esteemed dignitaries, including the Hon'ble Director Madam, Registrar, Director (Training & Placement), Dean (Strategy), Dean (Student Welfare), Dean (CDC) & HOD (ME), HOD (EE) & Chief Proctor, Head ICC (WGC), Chief Warden (Hostels), Head IIC/GLBCRI, Head Exam Cell, and the Head of Department (MCA). Each of them extended a warm welcome and inspired the students with their vision and guidance. Post lunch, Dr. Sanjeev Kumar, Addl. Head of Department of MCA, addressed the gathering, followed by enriching sessions from industry experts – Mr. Harsh Raghuvanshi and Mr. Madhup Rai – who shared insights into industry practices, career readiness, and future opportunities. The day concluded with a felicitation ceremony, an interaction with team members, and a heartfelt vote of thanks. The Orientation Program set the tone for the students' academic journey, blending inspiration with guidance.



13

LAUNCHPAD 2025: FUELING FUTURES WITH INDUSTRY EXPERTS & ALUMNI

Date: 23 September, 2025

Deptt: MCA

The Department of Master of Computer Applications, GL Bajaj Institute of Technology & Management, organised an enriching event titled "LaunchPad 2025: Fueling Futures with Industry Experts & Alumni" on 23rd September 2025 at the SBG Hall, Academic Block-2. The program commenced at 10:00 AM onwards and brought together distinguished industry experts and alumni of the MCA department to inspire and guide current students. Guest Speakers and Alumni The event featured insightful sessions by eminent speakers and successful alumni, who shared their professional journeys, industry knowledge, and future opportunities in the field of computer applications.

Mr. Shiv Sharma, Technology Advocate & Innovator with CSharp (Industry Expert), Ms. Meeta Nayyar, Digital Marketing Manager at Cadence Design Systems, Noida, (Batch 2007-10), Mr. Krishna Kumar, Senior SOC Analyst, Niveshan Technology Pvt. Ltd., (Batch 2020-22), Mr. Avnish Kumar, Associate Technical Lead, 360 Degree Cloud Technologies Pvt Ltd. Noida. Mr. Pankaj K Akhouri, Director IT, Evangelist Technology Pvt. Ltd., Noida, (Batch 2016-18)



14

JAVA FOR BEGINNERS: SHAPING SKILLS FOR CORPORATE PROJECTS

Date: 27 September, 2025

Deptt: MCA

MCA Department on behalf of GL Bajaj, Greater Noida organized a guest lecture on "Java for Beginners: Shaping Skills for Corporate Projects" on Saturday, 27th September 2025, at 9:30 AM in the MCA Block. The session was conducted by Mr. Chinmay Rajput, AEM Developer (System Analyst), who shared his expertise and practical insights into Java programming and its applications in the corporate environment.

The lecture began with an introduction to the fundamentals of Java, emphasizing the importance of object-oriented programming concepts and their role in solving real-world problems. He elaborated on how Java is applied in corporate projects, highlighting best practices for writing efficient, reusable, and maintainable code. He also guided students on career opportunities in Java development and discussed the expectations of the IT industry from fresh graduates, thereby bridging the gap between academic learning and professional skills.

The session was highly interactive, with active participation from students of the MCA department. Approx 100 students attended the session. Students raised queries related to project implementation, debugging techniques, and career growth in software development, which were addressed by the speaker with practical examples.



The inaugural ceremony of MEDHA The Medical Device Hackathon was held at G.L. Bajaj Institute of Technology and Management (GLBITM), in proud association with IIT Bombay, marking a significant stride toward fostering innovation-driven healthcare solutions. The event was graced by the esteemed presence of Mr. S. P. Mishra, who joined as the Chief Guest and officially launched this inspiring two-day journey of creativity, technology, and purposeful innovation.

MEDHA brought together brilliant minds from the fields of medicine and engineering, creating a dynamic platform where Doctors and Engineers collaborated closely to ideate, design, and prototype next-generation medical devices. The primary focus of this year's hackathon was on advancing healthcare technologies with a special emphasis on women's health, addressing critical challenges through practical and innovative solutions.

Over the course of the event, participants engaged in intensive brainstorming, interdisciplinary discussions, hands-on prototyping, and expert-guided mentorship sessions. The hackathon served as a fertile ground for nurturing ideas that merge scientific understanding with engineering excellence showcasing how innovation, when driven by empathy and purpose, can meaningfully transform human lives.

MEDHA reflects GLBITM's commitment to promoting innovation for social good, empowering young innovators to create impactful technological solutions that address real-world healthcare needs. This event not only celebrated talent and teamwork but also reaffirmed the institute's dedication to advancing research and fostering collaborations that bridge the gap between healthcare challenges and engineering-driven solutions.

With creativity, compassion, and cutting-edge technology converging under one roof, the MEDHA hackathon stands as a shining example of how GLBITM continues to champion the spirit of Engineering for Humanity where ideas evolve into innovations and innovations evolve into life-changing possibilities.



LIST OF WINNERS - MEDHA 2025

| Team ID | Names | Project Title | Category Won | Department | College |
|---------|--------------------------|---|--------------------------------|------------|---------|
| T14 | Anshika Misra | Medical Waste Management System | Best Design | CSE | GLBITM |
| | Ayush singh Mohit | | | ECE | GLBITM |
| | Sharma Rishu | | | ME | GLBITM |
| | Shukla Agrim | | | ECE | GLBITM |
| | Saxena Akshat | | | EE | GLBITM |
| | Srivastava | | | CSE | GLBITM |
| | | | | | |
| T12 | Luv Agnihotri | Medical Waste Management System | Best Prototype and Best Design | CSEAI | GLBITM |
| | Shivam Choubey | | | CSEAI | GLBITM |
| | Devansh Agarwal | | | CSEAI | GLBITM |
| | Shivam Kumar Pathak | | | EE | GLBITM |
| | Vishnu Babu Jaiswal | | | IT | GLBITM |
| | Harshit Upreti | | | ECE | GLBITM |
| | Bhavesk Krishna S Pillai | | | ME | GLBITM |
| | | | | | |
| T15 | Aayush Kumar Shrivasta | Solar based NICU (incubator) for rural areas | Best Commercial Project | CSDS | GLBITM |
| | Nayasha | | | Nersing | NIU |
| | Shreya Chaubey | | | ECE | GLBITM |
| | Nishant Chaudhary | | | ME | GLBITM |
| | Nikunj Rawat | | | EC | GLBITM |
| | Vidwan Kochhar | | | EE | AKGEC |
| | Suraj Mishra | | | CSE | GLBITM |
| | | | | | |
| T20 | Shivam Chaudhary | sensor based non invasive Co2 measurement | Best Commercial Project | CSE | GLBITM |
| | Bhavesk Verma | | | ECE | GLBITM |
| | Ramendra Rajput | | | ME | GLBITM |
| | Binit Kumar | | | ECE | GLBITM |
| | Rishi Kumar | | | EE | GU |
| | Brijendra jha | | | CSE | GLBITM |
| | | | | | |
| T05 | Arjav Jain | Smart gyro spoon for parkinson Disease people | Best Innovation | CSDS | GLBITM |
| | Shikhar Singh | | | Pharma | KRMU |
| | Manish Chauhan | | | ECE | RKGIT |
| | Ganesh Raja | | | ME | GLBITM |
| | Srishti | | | ECE | RKGIT |
| | Zaid Anwar | | | EE | GLBITM |
| | Arpit Tiwari | | | CSE | GLBITM |
| | | | | | |
| T02 | Ritesh Kumar | Image Based Dental Health Assessment | Best Innovation | CSAI | GLBITM |
| | Rina Nihalani | | | ECE | GLBITM |
| | Anand Kumar Mishra | | | ME | GLBITM |
| | Saransh Sahu | | | ECE | GLBITM |
| | Piyush Yadav | | | EE | GLBITM |
| | Priyanshu Yadav | | | CSEAI | GLBITM |
| | | | | | |
| T11 | Sandeep Yadav | Immersive AR-VR Simulation For Advanced Medical Skill | Best Prototype | CSE | AKGEC |
| | Lokesh | | | ECE | GLBITM |
| | Anshu Raj | | | ME | GLBITM |
| | Mayank Mayur | | | EE | GLBITM |
| | Palak Chadha | | | CSE | GLBITM |
| | Chirag Bhati | | | Pharma | IIMT |

FACULTY ACHIEVEMENTS

DR. HARIKESH SINGH, PARTICIPATED IN THE 66TH EDITION OF BRIDGE 2025

Dr. Harikesh Singh, head of department (CSE-DS) has participated in the 66th Edition of BRIDGE 2025 – Delhi, a high-impact Industry Institute Interaction event. The prestigious event was organized by ICT Academy, held on 3rd September 2025 at the Oval, Hyatt Regency, Delhi. BRIDGE 2025 brought together leaders from academia and industry to foster collaboration, knowledge exchange, and innovation for the future of education and technology.



DR. BIRENDRA KUMAR SARASWAT HAS CONTRIBUTED AS SESSION CHAIR

Dr. Birendra Kumar Saraswat has contributed as Session Chair in 7th International Conference on Information Systems & Computer Networks (ISCON - 2025) at GLA University, Mathura in 6 September 2025.



DR. P. C. VASHIST RECEIVED DRONACHARYA AWARD 2.0

Dr. P. C. Vashist received Dronacharya Award 2.0 in recognition of successfully supervising Ph.D. scholar contributing to the advancement of knowledge and research.



RESEARCH GRANT ACHIEVEMENT – DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, GLBITM

GL Bajaj Institute of Technology & Management, Greater Noida, has achieved another significant milestone in the field of research and innovation. The Department of Electronics & Communication Engineering has been awarded a research grant of ₹14.08 lakh by the Council of Science and Technology (CST), Government of Uttar Pradesh. The sanctioned project will be led by Dr. Purnendu Shekhar Pandey, Principal Investigator and faculty member of the ECE Department. This recognition highlights the institute's continued commitment to promoting impactful research that addresses real-world challenges through technology and innovation. The institute's Vice Chairman, Mr. Pankaj Agarwal, congratulated Dr. Pandey and the ECE Department for their outstanding achievement, emphasizing the institution's focus on fostering a strong culture of research, innovation, and academic excellence at both national and global levels.

FACULTY ACHIEVEMENTS

DR. ROHIT SHARMA NAMED AMONGST THE WORLD'S TOP 2% SCIENTISTS (2025)

We are proud to announce that Dr. Rohit Sharma, Dean (R&D) at GL Bajaj Institute of Technology & Management, has been included among the World's Top 2% Scientists for 2025, as identified through data compiled by Elsevier and Stanford University. This prestigious recognition highlights his exceptional research contributions, significant citation impact, and strong influence within his domain. The "Top 2% Scientists" list is based on rigorous and objective citation indicators, making it one of the most respected global benchmarks for evaluating research excellence.

DR. PURNENDU SHEKHAR PANDEY NAMED AMONGST THE WORLD'S TOP 2% SCIENTISTS (2025)

We are proud to announce that Dr. Purnendu Shekhar Pandey has been named among the World's Top 2% Scientists for 2025, a recognition based on data compiled by Elsevier and Stanford University. This honor reflects his outstanding contributions to research, high citation impact, and influence in his field. The "Top 2% Scientists" list is derived from objective citation indicators and is considered one of the most respected benchmarks for assessing research excellence globally. Dr. Pandey's inclusion underscores his consistent dedication to advancing knowledge and innovation, and marks him as a leader among his peers worldwide.



DR. NAGENDRA KUMAR NAMED AMONGST THE WORLD'S TOP 2% SCIENTISTS (2025)

The EEE Department at GLBITM is immensely proud to extend its heartfelt congratulations to Dr. Nagendra Kumar, Associate Professor, for a monumental achievement.

Dr. Kumar has been recognized and listed in the highly prestigious Top 2% of Scientists Worldwide in the 'Single Year' Data for 2025. This distinction is based on the authoritative list compiled by Stanford University and Elsevier.

This outstanding Honor directly reflects his significant and high-impact contributions to the fields of AI, Image Processing, and ICT. We celebrate this incredible milestone for both Dr. Kumar and the EEE Department, and wish him continued success in his future research endeavors.



DR. DURGESH AGNIHOTRI HAS CONDUCTED A MANAGEMENT DEVELOPMENT PROGRAM (MDP) AT NIBSCOM NOIDA

Dr. Durgesh Agnihotri has conducted a Management Development Program (MDP) at NIBSCOM NOIDA (National Institute of Banking Studies and Corporate Management), for the Branch Managers of Punjab & Sind Bank and Nainital Bank Ltd on the theme "Digital Transformation in Banking Marketing: Leveraging Digital Channels to Market Bank Products." The session focused on how digital transformation is reshaping banking marketing by enabling data-driven, customer-centric strategies. Key discussions included the use of social media, mobile apps, and content marketing to enhance engagement, along with the rise of neo-banking as a tech-driven model redefining customer experiences. Real-life cases from Indian banks highlighted how digital platforms build trust, personalize services, and strengthen brand value. The participating branch managers shared valuable insights, making the session highly interactive and enriching.



FACULTY ACHIEVEMENTS

DR. VIJEYATA HAS PRESENTED THE PAPER IN AN INTERNATIONAL CONFERENCE

Dr. Vijeyata has presented the paper in an International Conference on "AI for Sustainable Economic Growth: Driving Green Innovation, workforce Skilling, Digital Trade, Transformation & Governance", held on September 12-13, 2025 at KPR College of Arts Science and Research, Coimbatore, India jointly organized by Shri Ram College of Commerce, University of Delhi, India, & Churchill Institute of Higher Education, Australia.



MR. ROHIT SAHU, HAS BEEN HONORED WITH THE BEST TEACHER AWARD UNDER THE PRESTIGIOUS GLOBAL EDUCATORS EXCELLENCE AWARDS 2025

Mr. Rohit Sahu, Assistant Professor in the Department of Mechanical Engineering, has been honored with the Best Teacher Award under the prestigious Global Educators Excellence Awards 2025. This remarkable achievement recognizes his outstanding dedication to teaching, innovative pedagogical approaches, and unwavering commitment to student growth and academic excellence. His passion for imparting knowledge, mentoring young minds, and contributing to the holistic development of learners continues to inspire both students and colleagues alike. This accolade stands as a testament to his exceptional contributions to the field of education and his pursuit of excellence in engineering teaching and research.



MR. ROHIT SAHU, HAS BEEN RECOGNIZED AS A HIGHLY VALUED GUEST EDITOR

Mr. Rohit Sahu, Assistant Professor in the Department of Mechanical Engineering, has been recognized as a highly valued Guest Editor by Elsevier for the reputed journal Materials Today: Proceedings (September 2025 edition). His editorial contribution to the journal, spanning from February 2019 to April 2020, highlights his commitment to academic excellence and research dissemination in the field of materials science and engineering. This recognition reflects his consistent efforts to promote quality research, guide scholarly work, and contribute to the global scientific community.



FACULTY ACHIEVEMENTS

CONSISTENT PERFORMANCE AWARD – DR. PANKAJ KUMAR

GL Bajaj Institute of Technology and Management felicitated Dr. Pankaj Kumar, Associate Professor, CSE Department, on 19th September with the Consistent Performance Award for his exemplary contribution to academics, research, and innovation.



DIVERSITY & INCLUSIVITY AWARD – DR. PAYAL GARG

GL Bajaj Institute of Technology and Management felicitated Dr. Payal Garg, Assistant Professor, CSE Department, on 19th September with the Diversity & Inclusivity Award in recognition of her outstanding efforts toward promoting inclusivity, innovation, and diversity.



YOUNG FACULTY EXCELLENCE AWARD – MS. ARADHNA SAINI

GL Bajaj Institute of Technology and Management, Greater Noida, proudly felicitated Ms. Aradhna Saini, Assistant Professor, Department of Computer Science & Engineering, on 19th September with the Young Faculty Excellence Award for her remarkable contributions to teaching, research, and innovation.



MS. RACHANA SINGH SISODIA COMPLETED NPTEL COURSE

Ms. Rachana Singh Sisodia from CSE(DS) department has successfully completed the NPTEL 8-week certification course along with Faculty Development Program (FDP) titled "Introduction to Programming in C" (July–September 2025 session), showcasing her strong academic capabilities through commendable performance.



FACULTY ACHIEVEMENTS

DR. BIRENDRA KUMAR SARASWAT COMPLETED MOOC COURSE

Dr. Birendra Kumar Saraswat has completed a MOOC course in Supervised Machine Learning: Regression, through the Coursera Platform. This Online certification was completed on 18 Sep 2025.



DR. NEERU SINGH COMPLETED NPTEL COURSE

Dr. Neeru Singh has completed a MOOC course in Teaching and Learning in general Programs, through the NPTEL Platform. This Online certification was completed on 27 Sep 2025



DR. AMIT WADHWA COMPLETED NPTEL COURSE

Dr. Amit Wadhwa, Assistant Professor, Department of Computer Science & Engineering, GL Bajaj Institute of Technology and Management, Greater Noida, has been awarded Elite and Silver Certificates by NPTEL for his outstanding technical proficiency. He successfully qualified the NPTEL Certification Exam in Database Management Systems (DBMS) conducted during the July–September 2025 session.



KUMAR NISHANT COMPLETED NPTEL COURSE

Kumar Nishant has successfully completed the NPTEL Online Certification Course on Introduction to Machine Learning conducted by IIT Kharagpur with an Elite Grade, securing 79% marks and ranking among the Top 5% of participants during the July–September 2025 session



MR. SHIKHAR PANDEY RECOGNIZED WITH REVIEWER'S CERTIFICATE

Mr. Shikhar Pandey, Assistant Professor, Department of Computer Science & Engineering, has been recognized with a Reviewer's Certificate by the International Journal of Advanced Research (IJAR). Mr. Pandey reviewed sixteen manuscripts for the September issue, contributing his expertise to ensure the publication of high-quality research work



FACULTY ACHIEVEMENTS

DR. BIRENDRA KUMAR SARASWAT PARTICIPATED IN CIECI 2025

Dr. Birendra Kumar Saraswat, Associate Professor at GL Bajaj Institute of Technology & Management, participated in the 13th Conference on International Economic Cooperation and Integration (CIECI 2025) themed "Empowering the Future: Trade, Innovation, and Inclusive Development", organized by VNU University, Hanoi.

His participation reflects a strong commitment to advancing sustainability-oriented education and underscores GL Bajaj's dedication to fostering global collaboration and responsible academic leadership.



MS. DEEPIKIRAN MUNJAL RECEIVED DIVERSITY AND INCLUSIVITY AWARD

GL Bajaj Institute of Technology and Management is proud to celebrate Ms. Deepkiran Munjal for being awarded the Diversity and Inclusivity Award a recognition that highlights her exceptional commitment to fostering a culture of equality, inclusion, and respect within our institution. This achievement stands as a testament to her dedication and to the institute's continued efforts in promoting diversity and empowering every individual to thrive.



DR. SANJEEV KUMAR RECEIVED CONSISTENT PERFORMANCE AWARD 2.0

GL Bajaj Institute of Technology and Management proudly congratulates Dr. Sanjeev Kumar for being honored with the Consistent Performance Award 2.0, 2025 a recognition of his remarkable dedication, consistent efforts, and outstanding contributions. This achievement reflects not only his individual excellence but also the culture of encouragement, mentorship, and teamwork that defines GL Bajaj.



DR. PRIYANKA DATTA HAS RECEIVED DIVERSITY AND INCLUSIVITY AWARD

The Department of EEE is proud to announce that Dr. Priyanka Datta has been honored with the Diversity and Inclusivity Award for her remarkable efforts in fostering an environment that upholds equality, respect, and collaboration among individuals from diverse backgrounds. This recognition highlights her dedication to promoting inclusivity, embracing diverse perspectives, and nurturing a strong sense of belonging within the organization.



FDP/MDP/Training Program/Workshop

| SL.No. | Faculty Member | Department | Title | Days | Institution/ Industry |
|--------|---------------------------|------------|---|----------|--|
| 1 | Ms. Rachana Singh Sisodia | CSE(DS) | Introduction to Programming in C | 8 weeks | NPTEL |
| 2 | Ms. Renu Mishra | CSE(DS) | Salesforce Agentblazer Champion | 10 hours | ICT Academy |
| 3 | Mr. Abhishek Satyarthi | CSE(DS) | Generative AI | 05 | NITTTR, Chandigarh |
| 4 | Mr. Abhishek Satyarthi | CSE(DS) | AI, ML & Deep Learning for Autonomous Vehicles | 05 | NITK, in collaboration with Pantech eLearning |
| 5 | Ms. Priya Singh | CSE(DS) | Augmented Reality / Virtual Reality (AR/VR) | 05 | Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, |
| 6 | Ms. Shweta Kushwaha | CSE(DS) | Transforming Teaching and Research with Generative AI | 05 | AICTE Training and Learning (ATAL) |
| 7 | Ms. Ayasha Malik | CSE(DS) | Psychological First Aid | 01 | Symbiosis Teaching Learning Resource |
| 8 | Ms. Ayasha Malik | CSE(DS) | Emerging Technologies Shaping the Future: A 2025 | 05 | Sanskriti University, Mathura |

HIGHLIGHTS OF THE FDP/ WORKSHOP ATTENDED

Dr. Kiran Malik from GL Bajaj Institute of Technology & Management participated in an International Webinar on "Green HRM and SDGs" organized by KL University. Her contribution reflects strong commitment to sustainability-focused education and enhances GL Bajaj's reputation for promoting global collaboration and responsible academic leadership.



Dr. Devendra Singh Mohan from GL Bajaj Institute of Technology & Management successfully completed a One-Week FDP on "Blockchain and AI for Next-Generation Cybersecurity," organized by TMU, Moradabad. His participation highlights the institute's continuous commitment to advanced learning, cybersecurity innovation, and academic excellence.

Ms. Zarrish Iqar, Assistant Professor at GL Bajaj Institute of Technology & Management, successfully completed an AICTE-ATL Faculty Development Program on "Futuristic Manufacturing with 3D Printing and Digital Fabrication" hosted by Adhi College of Engineering and Technology. Her participation enhances advanced learning and innovation in emerging manufacturing technologies.



Mr. Amit Kumar Himanshu from GL Bajaj Institute of Technology & Management successfully participated in a Faculty Development Program on "Gen AI – RAG (Retrieval-Augmented Generation)" organized by Chaitanya Bharathi Institute of Technology, Hyderabad. This participation reflects his commitment to advancing expertise in emerging AI technologies.

HIGHLIGHTS OF THE FDP/ WORKSHOP ATTENDED



Ms. Renu Mishra has successfully participated in the 10-Hour Faculty Development Program on Salesforce Agentblazer Champion, organized by ICT Academy from 8th to 12th September 2025. This FDP, conducted online, aimed to enhance knowledge and practical expertise in Salesforce technologies, thereby contributing to continuous professional development. Ms. Mishra's participation reflects her dedication to academic excellence and her commitment to upgrading skills in emerging domains.

Ms. Yasha Istwal is recognised for her valuable contribution as a Reviewer at the 4th IEEE International Conference on Technology, Engineering, Management for Societal Impact using Marketing, Entrepreneurship & Talent (TEMS-MET 2025), organized by the National Institute of Technology, Delhi, held from October 8-10, 2025.



Ms. Shweta Kushwaha has successfully participated in the AICTE Training and Learning (ATAL) Academy Faculty Development Program titled "Transforming Teaching and Research with Generative AI." The program was conducted at the Global Institute of Management Sciences. Ms. Kushwaha's commitment to advancing her knowledge and skills in cutting-edge AI technologies exemplifies her dedication to academic excellence and continual professional development.

Dr. Garima Vijh has participated in One Week Online Faculty Development Program on IPR organized by Intellectual property facilitating Centre (IPFC) – Gandhi Institute of Engineering and Technology university, Odisha, Gunupur, (IPFC-GIET University Cell) during 15-19 September 2025.



HIGHLIGHTS OF THE FDP/ WORKSHOP ATTENDED

Mr. Arun Mittal from the Department of CSIT actively participated in a 6-days FDP on TRANSFORMING TEACHING AND RESEARCH WITH GENERATIVE AI organized by Global Institute of Management Sciences on 15-20 September 2025.



Mr. Md Sohaib Iqbal from the Department of CSIT actively participated in a 6-days FDP on Securing the Future: Cybersecurity, Forensics, and the World of Blockchain on 22-27 September 2025.



Mr. Nikhil Sharma from CSE Deptt. GL Bajaj Institute of Technology and Management, Greater Noida successfully participated in the AICTE-recognized Faculty Development Programme on Research Methodology conducted by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 24th to 28th September 2025 at Chaudhary Charan Singh University, Meerut.



Ms. Sonal Gandhi, Assistant Professor, Department of Computer Science & Engineering, GL Bajaj Institute of Technology and Management, Greater Noida, has successfully completed training on the POSH Act 2013 (The Sexual Harassment of Women at Workplace: Prevention, Prohibition, and Redressal Act, 2013), inclusive of UGC and AICTE regulations.

The one-day program, conducted by Tech Trainers and Testers, Pune, focused on legal awareness, preventive measures, and workplace best practices.

HIGHLIGHTS OF THE FDP/ WORKSHOP ATTENDED

1 Mr. Tapas Kumar Mishra from the Department of CSIT actively participated in a 11-days FDP on Next Generation IoT Security:Architecture , Threats and Practical Defenses organized by the Electronics and ICT Academy (Phase-II), Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, during October 6 - 16, 2025. The FDP provided an in-depth understanding of IoT architecture, communication protocols, and the unique security vulnerabilities associated with connected devices. Experts from academia and industry delivered insightful sessions on threat modeling, attack surfaces, intrusion detection, and data protection mechanisms specific to IoT environments.



GLBITM Research Highlights for JOURNAL PUBLICATIONS SEPTEMBER/OCTOBER 2025



1

Garg, Payal, Aruna Verma, Sushama Tanwar, Pankaj Dadheech “AI-augmented cryptanalysis using combinatorics and reinforcement learning” *Journal of Discrete Mathematical Sciences and Cryptography* [2025].



DOI: 10.47974/JDMSC-2424

On one side, the modern day symmetric-key cryptography protects everything from our online banking to critical infrastructures, and the giant key-space of AES-128 alone around 3.4×10^{38} possibilities makes the brute-force attack impractical, which makes sense for the development of more sophisticated search techniques. Although traditional combinatorial attacks eliminate keys based on algebraic relationships, they have exponential complexity even for low-degree equations and are not applicable to multiple cipher designs. At the same time, advances in machine learning that have been made recently demonstrate that reinforcement learning agents can learn to control search heuristics, cutting solution times by as much as a factor of ten in closely associated optimization problems and greatly enhanced success rates in side-channel key recovery. In this paper, we bridge by incorporating an RL policy in a combinatorial key-search engine, with partial-key candidates and their statistical properties as states, to guide an order of candidates of favorable branches. Results on several cipher instances demonstrate 14–19 percentage-point improvement in recovery rates and close to two-times speed improvement over standard and pureRL baselines, suggesting a promising path towards more intelligent, automated cryptanalysis.

2

K. Arthi, P.T. Kalaivaani, Amit Wadhwa, Md Rafeeq, Roslin Dayana Kumar, Balaji. S. R “Deep representation learning for detecting subtle psychological symptoms in medical records and wearable sensor data” *TPM - Testing, Psychometrics, Methodology in Applied Psychology* [2025].

It is crucial to find early indicators of anxiety and moderate depression whenever you can to help people receive better results. Unstructured medical records and noisy data from wearable sensors often display these symptoms in intricate ways that supervised learning approaches that use big, annotated datasets have a hard time with. It is challenging to make good detection models because there isn't enough labeled data and it's hard to grasp the symptoms. Because of this, we need ways to train usable representations from a variety of data sources without having to label a lot of it by hand. Our suggested self-supervised deep representation learning architecture can work with many types of data at once, like medical records in text form and time-series data from wearable sensors. We employ masked data modeling and contrastive learning to gather the information we need to make unified embeddings that highlight hidden psychological symptom markers. To sort symptoms, big datasets without labels are utilized for pretraining, and subsequently small samples with labels are used for fine-tuning. The experimental evaluation that used a multimodal dataset demonstrated that the suggested technique is better than both the baseline supervised and unsupervised models at finding early psychological symptoms.

3

Neha Janu, Payal Garg, Komal Mehta Bhagat, Blessy Thankachan, Susheela Vishnoi, Pankaj Dadheech “Graph-theoretic and geometric methods for social network influence analysis” *Journal of Discrete Mathematical Sciences and Cryptography* [2025].



10.47974/JDMSC-2364

The growing role we play in influencing and being influenced by those around us, for better or worse, underscores the importance of having proven ways to analyze and model the propagation of influence. The use of such techniques or traditional graph theoretic approaches alone do not capture the complex, non-linear nature of many real-world social networks. In response to this problem, in this paper we present a new framework combining graph and geometry approaches for full analysis of social network influence. We mix traditional centrality statistics like degree, betweenness, clustering coefficients, with more sophisticated lower-level geometric features, such as geodesics and curvature analysis obtained at the price of using Riemannian geometry. This Hybrid model also allows us to infer the key players who provide us with further detailed information about the structural strength and interaction of a network. Drawing on geometric characteristics, our approach successfully captures correlation of nonlinear effect, resulting in more accurate influence spread estimation. We use the real-world social network data to conduct a case study and show that the proposed framework not only enhances the effectiveness of critical node-oriented attacks in target identification but also leads to a more accurate discovery of bottlenecks and weakly connected regions. The presented method alleviates the difficulties of the established techniques by providing a mathematically structured, yet computationally efficient framework that provides interpretability offered from graph theory with the level of detail from geometric analysis. This work can inform targeted marketing, misinformation control and community behavior dynamics, and lends novel insights to the study of influence dynamics in social networks more

Journal articles published

| Name of Faculty | Department | Title | Name of Journal | Indexing | Publisher |
|--|------------|---|---|----------|-----------------|
| Dr. Ambuj Saxena | ME | Synergistic Mechanisms in Magnetic Abrasive Finishing Process: Optimizing Precision and Internal Roundness of Inconel-718 Superalloys for Aerospace Applications | Journal of Materials Engineering and Performance | SCIE | Springer Nature |
| Prof. Vishwa Ratan Mishra | ME | Optimizing the Performance of the AirCooled Microchip by the Heat Sink | Asia-Pacific Journal of Chemical Engineering | SCIE | Willey |
| Dr. Abhishek Pandey, Dr. Nagendra Kumar Maurya | ME | Self-Healing Capabilities in Epoxy UF-DCPD Composites by Investigating Fracture and Scratch Properties | Polymer Engineering & Science | SCIE | Willey |
| Mr. Rohit Sahu | ME | Biodegradation and Characterization of 3-D Printed PLA-Based Polymer Composites Reinforced With Cellulose Based Hemp/Kenaf Fibers and Coconut/Walnut Fillers | Polymer Composites | SCIE | Willey |
| Mr. Ranjeet Kumar Singh | ME | Optimization of process parameters to minimize the wear loss of Al7075 T6/B4C composites developed by stir casting process | Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science | SCIE | SAGE |
| Dr. Ambuj Saxena | ME | Effects of temperature and confinement mechanisms on the deformation of selective laser melting 3D printed SS316 using finite element analysis | Scientific Reports | SCIE | Springer Nature |
| Dr. Suresh Pratap | ME | Mechanical performance and predictive tribological modeling of Al7075 composites reinforced with rice hull activated carbon | Scientific Reports | SCIE | Springer Nature |
| Dr. Dinesh Kumar Singh | ECE | A pocket-integrated miniature, dual-band, and high gain textile MIMO antenna for 5G and WiFi wearable applications | Scientific Reports | SCIE | Springer Nature |
| Dr. Dharmendra Nishad | ECE | Performance investigation of Z-shaped gate dielectric modulated electrically doped junctionless TFET based biosensor for biomedical application | Micro and Nanostructures | SCIE | Elsevier |

Journal articles published

| Name of Faculty | Department | Title | Name of Journal | Indexing | Publisher |
|----------------------|------------|---|--|----------|-------------------|
| Dr. Upendra Dwivedi | CS-AIML | Energy-efficient multi factor authentication protocols in sustainable security for wireless networks using machine learning algorithm | Results in Engineering | ESCI | Elsevier |
| Anand Muni Mishra | CS IT | Hybrid deep learning model for density and growth rate estimation on weed image dataset | Scientific Reports | SCIE | Springer Nature |
| Dr Bishwajeet Pandey | MCA | Edge computing based emulator design for low-latency IoT health monitoring system | International Journal of Information Technology | SCIE | Springer |
| Dr Bishwajeet Pandey | MCA | AES Cryptography Enabled Responsible Federated Foundation Model Using Transformer LLM and LSTM for Smart Grid IIoT Networks | IEEE Internet of Things | SCIE | IEEE |
| Dr. Mohammad Anas | MBA | Talent Management: A Review and Research Agenda | Global Business and Organizational Excellence | SCIE | Wiley |
| Dr. Nikhil Sharma | CSE | Blockchain-based framework for secure medical data sharing and disease diagnosis using optimized deep belief networks | Cluster Computing | SCIE | Springer |
| Dr. Nikhil Sharma | CSE | XAI-driven multiattention DeepCRNN for enhanced cyberattack detection in internet of medical things environments | Pervasive and Mobile Computing | SCIE | Elsevier |
| Dr. Payal Garg | CSE | AI-augmented cryptanalysis using combinatorics and reinforcement learning | Journal of Discrete Mathematical Sciences and Cryptography | Scopus | Taru Publications |
| Dr. Payal Garg | CSE | Graph-theoretic and geometric methods for social network influence analysis | Journal of Discrete Mathematical Sciences and Cryptography | Scopus | Taru Publications |

GLBITM Research Highlights for BOOK/ BOOK CHAPTERS PUBLISHED SEPTEMBER/OCTOBER 2025



1

BOOK TITLE: Perovskite Solar Cells: Modeling the Future of Renewable Energy
BOOK EDITOR: Dr. Bishwajeet Pandey
DATE OF PUBLICATION: 28 Oct 2025



DOI: <https://doi.org/10.1201/9781003589747>

Publisher Link: <https://www.taylorfrancis.com/books/edit/10.1201/9781003589747>

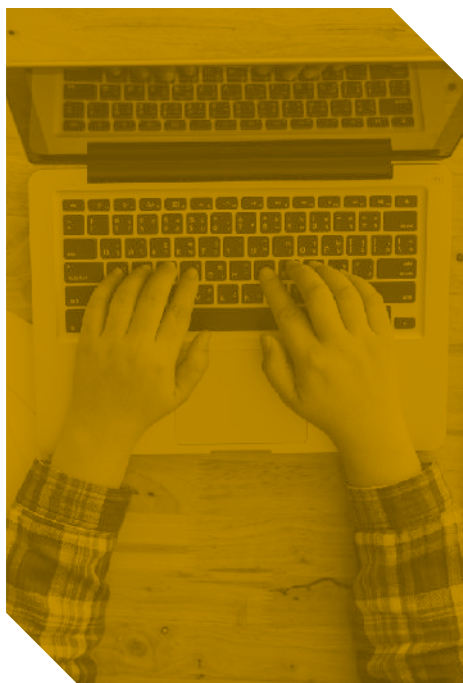
This book provides a comprehensive overview of the role of modeling in advancing perovskite solar cell technology and its implications for the future of renewable energy. It encompasses various aspects of perovskite solar cell modeling, including computational modeling and simulation techniques, experimental validation methods, optimization strategies, and performance evaluation metrics.

Discusses the basic principles, working mechanisms, materials, and designing approaches related to the implementation of perovskite solar cells. Covers electron and hole transport models, computational approaches to charge transport, and transport in different perovskite structures. Illustrates the crystal structure, composition, optical and electronic properties, stability, and degradation mechanisms of perovskite materials. Explains tandem solar cell design principles, interface engineering for tandems, and stability challenges in tandem solar cells. Explores the performance parameters related to perovskite solar cells and the implementation of such devices. It is primarily written for senior undergraduates, graduate students, and academic researchers in electrical engineering, electrical and communications engineering, energy engineering, renewable energy, and computer science and engineering.

Journal articles published

| Name of Faculty | Department | Title | Published by | Category | Indexing |
|---|------------|---|-----------------------------------|----------|-----------------------------------|
| Dr. Nagendra Maurya, and Dr. Abhishek Pandey | ME | Design of Experiments and Hypothesis Testing: A Practical Approach for Engineers and Researchers | Lambert Academic Publishing | Book | Lambert Academic Publishing |
| Mr. Rohit Sahu | ME | Digital Deception: Uncovering the Dark Side of AI in Social Networks | Bentham science | Book | Bentham |
| Dr. Bishwajeet Pandey | MCA | A Comprehensive Guide for Java Developers and New Programmers | Apress Springer Nature | Book | Apress |

RESEARCH FACILITIES AVAILABLE IN COMPUTING DEPARTMENTS



GL Bajaj Institute of Technology and Management offers comprehensive instructions in the mathematical and computational underpinnings of computer science and engineering. It is a dynamic and forward-thinking academic unit focusing on applied mathematics, computer science, and scientific engineering applications. The department is committed to imparting deep knowledge and skills to its students in cutting-edge computational techniques for real-world science and engineering applications to meet industry demand. With experienced faculty and state-of-the-art resources, we strive to nurture the next generation of professionals and drive advancements in this rapidly evolving field.

1. NVIDIA DGX A – 100 Server Access

2. Listing for E-resources

- ◆ IEEE Xplore Digital Library -
<https://ieeexplore.ieee.org/browse/periodicals/title>
- ◆ Springer - <https://link.springer.com/>
- ◆ EBSCO Business Source ELite - <https://www.ebsco.com>
- ◆ Science Direct-<https://www.sciencedirect.com/>
- ◆ Perlego - <https://www.perlego.com/>
- ◆ (Please click on the link, a video explaining how to access and manage the account:
<https://share.vidyard.com/watch/QYaxSrnfppNC4FyF2Pw7fA?>)
- ◆ DELNET - <https://discovery1.delnet.in/>
- ◆ MyLoft - <https://app.myloft.xyz/user/login?institute=ck4o420t2s5ya099816x5aby9>
- ◆ Knimbus - <https://glbitm.knimbus.com/user#/home>
- ◆ NDL - <https://ndl.iitkgp.ac.in/>
- ◆ NPTEL - <https://nptel.ac.in/courses>

3. Turnitin: Plagiarism Detection Software

4. Research Tools: Anaconda, Scilab, WEKA tool, Draw.io, CISCO Packet Tracer, Wireshark, ORACLE, JDK, Linux, Windows OS, Apache.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

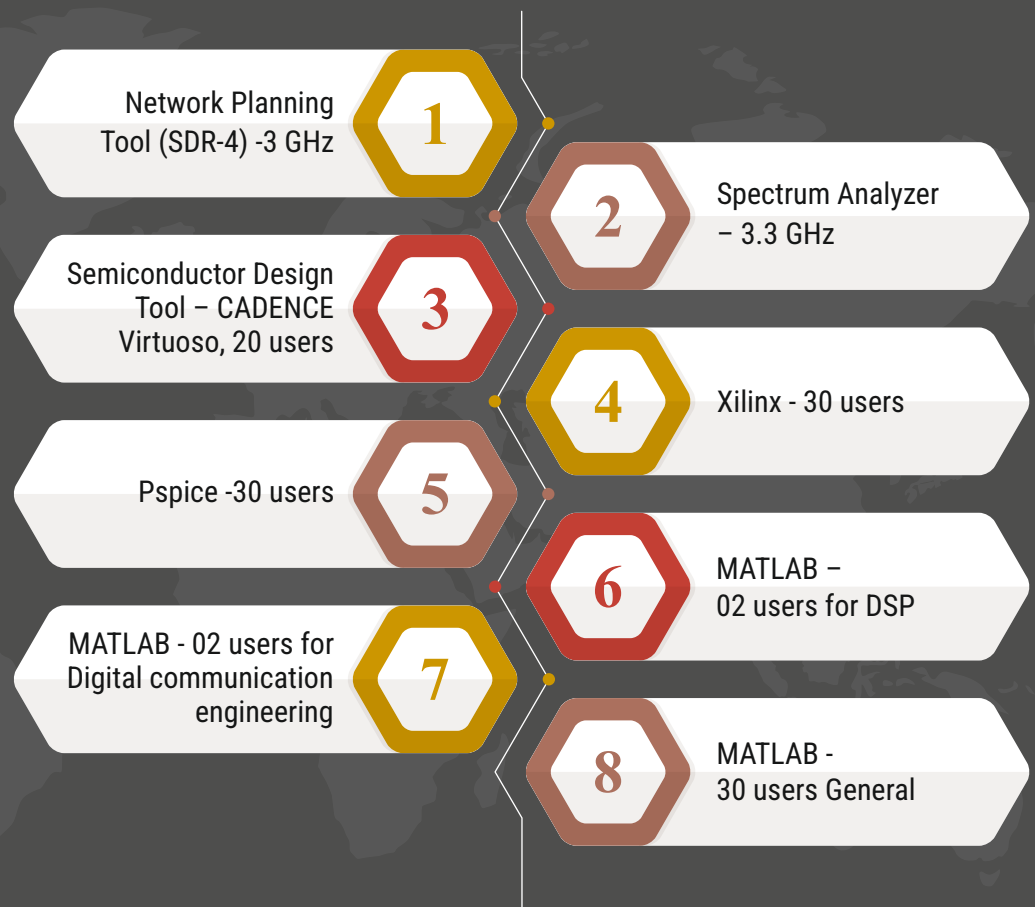
ECE department was established in the year 2005 with an intake of 60 students. It has progressed to an intake of 180 due to our best support and quality TLP. The whole world is looking for our product in every field of day-to-day needs. Electronic products have completely changed the needs of this universe. Engineering is a rigorous part of the verification process which yields quality products. The application of electronics engineering is diversified. Medical applications are lifesaving elements for all the creatures on this earth. Therefore,

accuracy plays a vital role in these applications. We can refer to many such an application as aeronautics, robotics in surgery, welding, automation, etc. Many application of processing needs the highest accuracy hence again verification is on priority. Taking many such an application as a challenge, the department of ECE has started a critical task of learning with an initiative of project/research-based learning.

Research-based learning needs progressive and computational environments to support research.

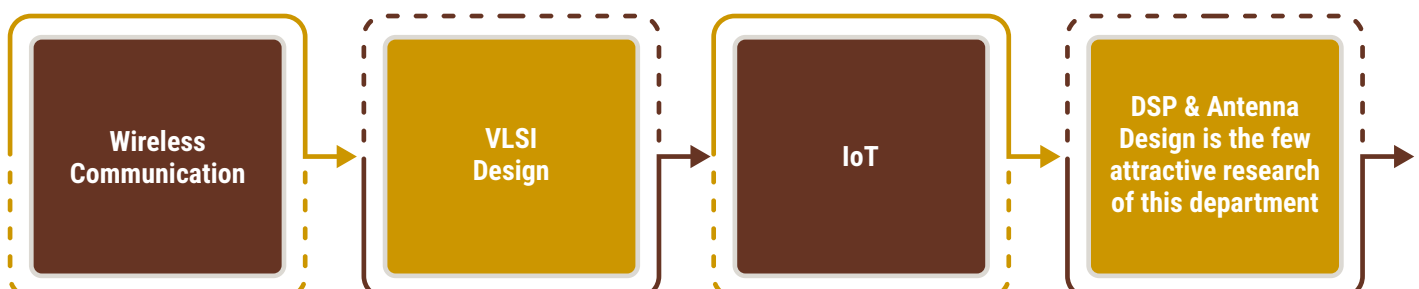
RESEARCH FACILITIES

IN THE
DEPARTMENT OF
ELECTRONICS AND
COMMUNICATION
ENGINEERING



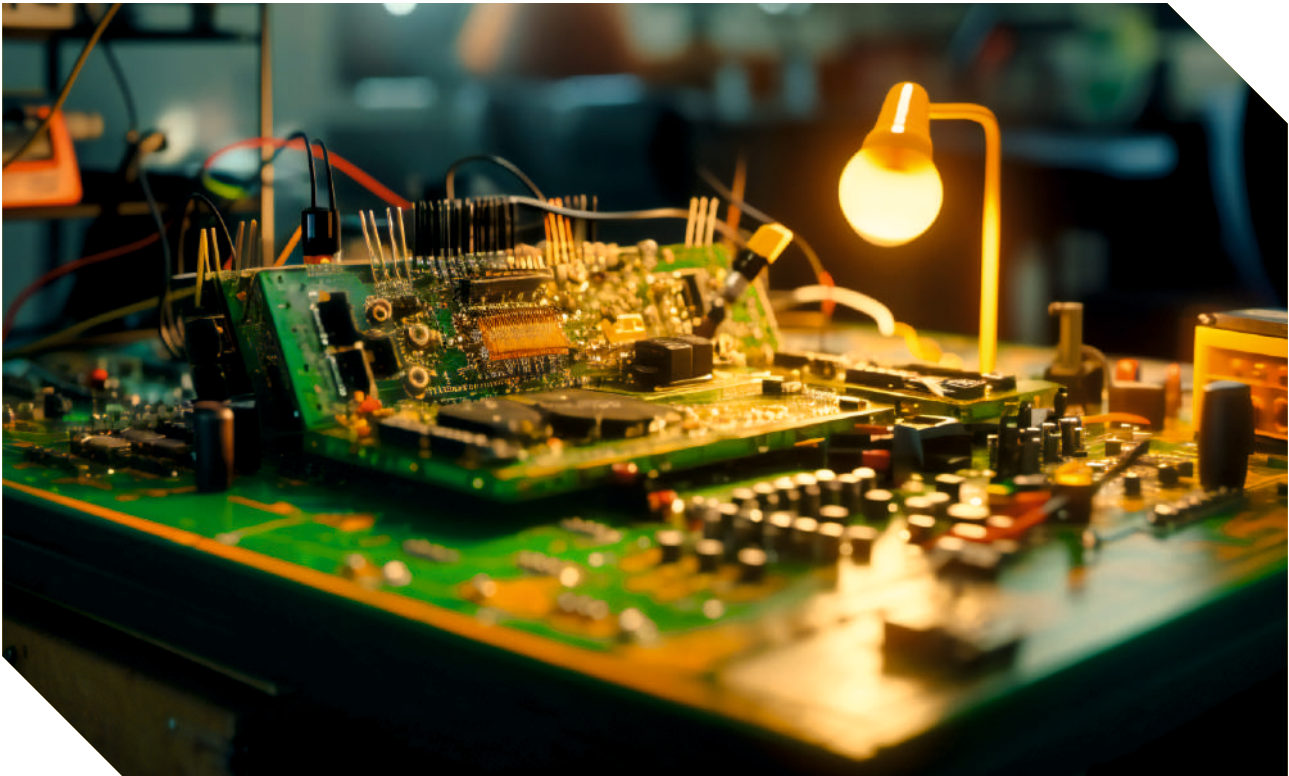
Provision of Research Tools facilitated numerous research papers in the department. At present, Total 135 research papers have been published during the last 05 years and many are under review. The department holds a very effective cadre ratio with good researchers.

17 Ph. D.s from very reputed organizations are the research strength of the ECE department. **The area of research strength of this department is as:**



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering at GL Bajaj Institute of Technology & Management was established in the year 2005 with a vision to impart quality education and provide competent professionals to fulfill the needs of industry and society in a global perspective for the sustainable development of industry and society.



RESEARCH FACILITIES

IN THE DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

MAJOR EQUIPMENT'S

3-D Printer, EV Testing equipment

PLC Wiring Panel, HMI with Enclosures

VFD Panel with motor

DC Regulated Power Supply, DSO

1-3 phase electrical machines with
different load arrangements, etc

MAJOR LABS

Workshop Lab

Automation Lab, Software Lab

Power System Lab, Power Electronic
Lab

Analog & Digital Electronics Laboratory

Electrical Machine Laboratory,
Instrumentation Laboratory

Microprocessor Lab

EV Lab, Idea Lab

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at GL BAJAJ Institute of Technology & Management, Greater Noida was established in 2005. The department offers 4 year B. Tech. Program in Mechanical Engineering. The department provides a strong foundation for the overall growth and development of the students by enriching them with technical, analytical, quantitative, reasoning, ethical & and linguistic qualities. The department has a pool of well-qualified and experienced faculty having backgrounds from IIT, NIT, and other nationally and internationally recognized institutes in various research areas including Computational Fluid Dynamics, FEM, Rapid prototyping, Smart materials, Combustion, etc.

The following research facilities have been associated with the department, It would be very beneficial for all of us to club with a central research facility.



RESEARCH FACILITIES IN THE DEPARTMENT OF MECHANICAL ENGINEERING

FACILITIES

Conventional Universal testing machine-400kN

Rockwell hardness testing machine

Impact testing machine

Torsion testing machine

Fatigue testing machine

Stir-casting setup

Double disc polishing machine

Robotic Milling machine

Robotic welding machine

CNC lathe machine

CNC milling machine

Additive manufacturing set-up (3D printers)

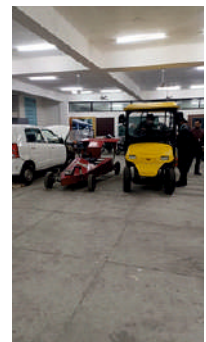
Muffle furnace

Pallet making machine

Glimpses of RESEARCH FACILITIES / LABS



CSE / ACSE



EEE

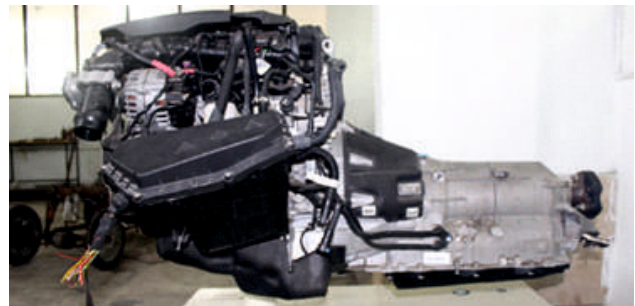


ABB Centre for Robotic Welding

Glimpses of RESEARCH FACILITIES / LABS



BMW Skill Next Automotive Learning Centre



SEIMENS Centre for Mechatronics and Industry 4.0



SEIMENS Centre for Mechatronics and Industry 4.0





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