

PRAGYAN

NEWSLETTER



NOV - JULY 2023

“Pragyan is a lunar rover that forms part of Chandrayaan-3, a lunar mission developed by the Indian Space Research Organization”.

DEPARTMENT OF APPLIED COMPUTATIONAL SCIENCE & ENGINEERING



About The Institute

GL Bajaj Institute of Technology and Management is one of the quality driven Educational Institute in the Greater Noida/Delhi-NCR Region. GL Bajaj stands out as one of the best engineering and management college in UP. It also stands out in its approach to assist and equip the students for their overall development, giving them a strong foundation for a successful future. The institute offers B.Tech, MBA and MCA programs.

This self financed institute is governed by Rajeev Memorial Academic Welfare Society (Registered Under Societies Registration Act 1860). It is approved by All India Council for Technical Education (AICTE), Ministry of Human Resource Development, Government of India and affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

Vision of the Institute

To be an institute of repute, providing professionally competent and socially sensitive engineers.

Mission of the Institute

- To equip with the latest technologies to be globally competitive professionals.
- To inculcate qualities of leadership, professionalism, corporate understanding and executive competence.
- To imbibe and enhance human values, ethics and morals in our students.

Department Vision

To be recognized as a department imparting quality education in the field of applied computational science and emerging technologies for catering the needs of the society.

Department Mission

M1: To prepare graduates with a strong foundation in Artificial Intelligence, Machine Learning, Data Science, emerging technologies and related disciplines.

M2: To inculcate problem solving skills in graduates in order to promote critical thinking and leadership qualities.

M3: To educate socially competent professionals for various domains well versed with ethical uses of emerging technologies.

M4: To stimulate technical competence, research and entrepreneurship in graduates for socio-economic development.

Program Educational Objectives (PEOs)

PEO 1: Graduates will demonstrate technical competency and leadership to develop innovative engineering solutions to real-world problems using Artificial Intelligence, Machine Learning, Data Science and emerging technologies in an inter-disciplinary setting.

PEO 2: Graduates will achieve professional success and pursue higher education and research in Artificial Intelligence, Machine Learning, Data Science and emerging technologies.

PEO 3: Graduates will exhibit social responsibility, adherence to ethical standards and effective entrepreneurial practice towards society and environment.

Program Specific Outcomes (PSOs)

PSO1: Apply fundamental principles of Artificial Intelligence, Machine Learning, Data Science and emerging technologies to design and develop innovative solutions for complex real-world problems.

PSO2: Use applied computational science engineering knowledge and skills for professional competence and entrepreneurship to meet industry standards and provide sustainable development.

Inside This Issue

- Accreditation Process Awareness
- Mini code
- Chess Competition
- DSA vs Problem-Solving
- Guest Lecture on Applied Computer Science
- AWS Technical Workshop
- Conference by Cisco Networking Academy
- Career Counselling Event
- Internal Hackathon KAVACH -2023
- Guest lecture on Big Data
- ESS Global Seminar
- Industrial Visit to Cognizant



Dean's Message

I am incredibly delighted and proud to announce the release of our department newsletter. The intellectual ambiance in the Department of ACSE is conducive to the holistic development of the students. The main idea of the department is to equip young minds with technical skills, along with ethical values, so that they can make a meaningful contribution towards the development of the country in the field of Computer Science and Engineering. This newsletter will motivate students as it serves as a medium to showcase their success stories. I congratulate the editorial and design team for bringing such an outstanding newsletter. I wish them success.

Dr. Naresh Kumar
DEAN
Applied Computational Science & Engineering

EDITORIAL BOARD

Editor's Message

Faculty Editor



I am thrilled to welcome you to the latest edition of our department newsletter. The newly designed newsletter is a collaborative effort between faculty and students. As the faculty editor, my goal is to curate content that highlights the transformative work happening within our department. Within these pages, you will find recaps of the distinguished events that brought leading minds to our campus. I hope that the newsletter inspires more students to use it as a platform to showcase their creativity.

Best regards
Ms. Vipasha Abrol

Student Editor

We are delighted to present the latest edition of our newsletter. It reflects the college's vision and mission, as well as the events, activities, academic progress and achievements of students. We have attempted to cover the activities of the last six months in this edition.

Sub Editor
Rohit Verma



Student Editor

We are very happy to introduce the latest edition of our newsletter. As we all know, a newsletter mirrors a college- its vision and mission. It also highlights the events and activities of students. Contribution of teachers and other crucial information related to the computer-science field are also incorporated in it.

Sub Editor
Ayush Kumar



ACCREDITATION PROCESS AWARENESS

On 17th January 2023, an engaging seminar titled "Exploring Accreditation Processes" was held by the ACSE Department in SBG HALL, Academic Block-2. This two-hour event aimed to shed light on accreditation procedures in a comprehensible manner. The seminar was initiated by Ms. Juhi Pathak, the student coordinator, who warmly welcomed all attendees. She then introduced the day's main speaker, Dr. Prof. N.C. Shivprakash, a distinguished former professor at IISc Bangalore.

Dr. Prof. N.C. Shivprakash delivered a thoughtful discourse on accreditation processes, providing valuable insights into the subject. His expertise and in-depth knowledge enriched the attendees' understanding. The event concluded with a Vote of Thanks from Dr. Sansar Singh Chauhan. Dr. Chauhan expressed gratitude to Dr. Prof. N.C. Shivprakash for sharing his expertise despite his busy schedule. He also acknowledged the organizers, coordinators, and participants, including second-year students and the dedicated organizing team led by Mr. Vivek Sharma, the faculty coordinator.

The seminar not only illuminated accreditation processes but also showcased successful event organization. It was a meaningful and rewarding experience for all involved.



MINI CODE

An exciting coding event from ACSE department that took place on January 25, 2023, from 01:00 PM to 03:00 PM, in the labs of Academic Block-1. With 37 eager participants, this event was a vibrant hub of energy and determination.

The coding competition set the stage for participants to showcase their coding skills. The air was filled with excitement as each participant was determined to tackle their tasks within the given time limit.

The main goal behind this event was to help students understand the significance of problem-solving and develop their logical thinking abilities. In today's fast-paced world of technology and software development, these skills are like treasure. The event garnered praise from the Director, who emphasized the importance of such competitions to align with the demands of software companies and industries.

For two intense hours, participants immersed themselves in coding challenges, demonstrating not just their skills but also their passion. The event's success has left everyone enthusiastic for more such coding competitions in the future. It's clear that the thrill of coding and problem-solving continues to light a fire in young minds, inspiring them to take on new challenges with confidence.



CHESS COMPETITION

The ACSE Department organized an event named "Checkmate" that unfolded at the dining area, gate no. 2, on the 27th of January 2023, spanning from 03:10 PM to 05:00 PM.

This tournament had an objective – to kindle a fervor for chess and provide a platform for participants to sharpen their mental acuity and showcase their intellectual prowess. The contest comprised multiple rounds, each demanding participants to unveil their adeptness in the intricate game of chess. Strategic moves took center stage as competitors aimed to outmaneuver their opponents and clinch victory in each round.

Beyond the competition, the tournament fostered a setting where players could glean insights from one another, fostering valuable experiences in the realm of competitive gaming. The ambiance exuded competitiveness, yet maintained the hallmark etiquette of chess, marked by respect and camaraderie. Over a span of three hours, participants displayed unwavering energy and enthusiasm, yearning for more such captivating chess battles.

The "Checkmate" chess tournament not only crowned champions but also celebrated the strategic brilliance and sportsmanship that chess embodies.

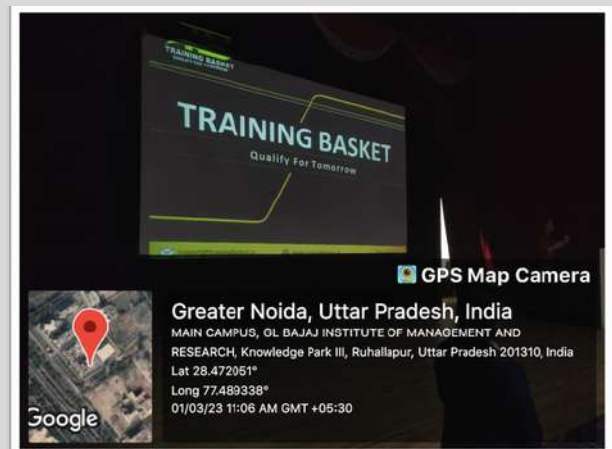
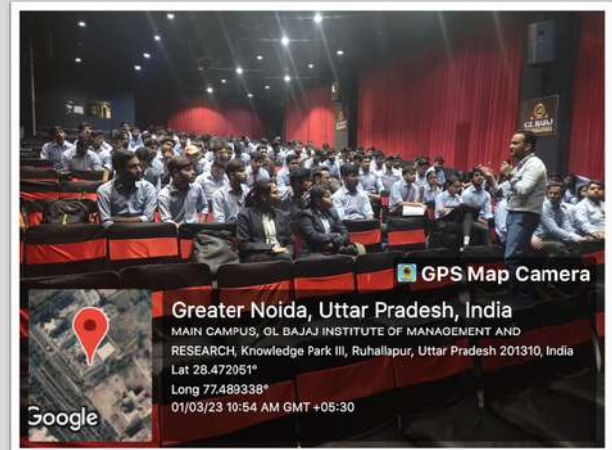


DSA VS PROBLEM SOLVING

The Department of ACSE put together a fantastic seminar titled "DSA vs. Problem Solving" on 1st March 2023. This enlightening event lasted for 3 hours and took place at the SBG Hall, attracting 220 eager participants.

The focus of this seminar was to dive deep into the world of DSA (Data Structures and Algorithms) and problem-solving. DSA skills are super valuable in today's world, and this seminar was like a treasure trove of knowledge. It aimed to open the doors to understanding current industry trends and the research landscape in this area.

The event kicked off with Mr. Vivek Kumar Sharma, the faculty coordinator, extending a warm welcome. He introduced the star of the day, Mr. Ratan Jain, a member of Training Basket Learning with a whopping 6+ years of industry experience in Data Science, Machine Learning, and AI.



Mr. Jain took the spotlight to talk about DSA, shedding light on its significance and how it's evolving in the modern landscape.

As the curtains came down on this enriching event, Mr. Vivek Kumar Sharma took the stage once again to deliver the Vote of Thanks. He expressed gratitude to Mr. Ratan Jain for taking time out of his busy schedule to share his valuable insights about Machine Learning. The organizers and coordinators were also acknowledged for their efforts in orchestrating such a successful event.

This seminar wasn't just about learning – it was about embracing the power of DSA and problem-solving, and discovering how these skills are shaping the future.



GUEST LECTURE ON SCIENTIFIC RESEARCH

The Guest Lecture on Applied Computer Science held on March 1st, 2023, at the SBG Hall of G.L. Bajaj Institute of Technology and Management, was a great success. The event was attended by HOD from various departments, Dean Sir, and faculty members, and the guest speaker for the program was Dr. Rajeev Singh, Associate Dean Academics and Dr. Balamurugan Balusamy, Associate Dean Student.

Dr. Rajeev Singh, Associate Dean of Academics, spoke about the impact and importance of metrics in scientific research, while Dr. Balamurugan Balusamy, Associate Dean Student, talked about the real-life use cases of artificial intelligence in different sectors. Both speakers provided valuable insights into their topics, which were well-received by the audience consisting of more than 100 students, faculty members, and researchers.

The lectures were followed by a Q&A session, where the speakers responded to interesting questions related to the topics. Overall, the event was successful and provided a great learning experience for the attendees.



AWS TECHNICAL WORKSHOP

A captivating seminar unfolded on March 16, 2023, from 09:15 AM to 11:30 AM, at the SBG Hall located on the 2nd floor of Academic Block-2. With a participation count of 55, the event was brimming with anticipation and eagerness.



This seminar was all about AWS, which stands for Amazon Web Services. It's like a magic toolbox for technology. The seminar lasted for 3 hours and focused on two cool things: Programming and DSA (that's short for Data Structures and Algorithms). These things are like superheroes in today's tech world.

The event started with Mr. Vivek Kumar Sharma, a special person who helped coordinate things, saying hello. Then came the star of the show, Ms. Riya. She's super smart, with more than 6 years of experience in things like AWS, Data Science, and other tech stuff. She talked about AWS and how it's changing the world.

When everything was done, Mr. Vivek Kumar Sharma said thanks to Ms. Riya for sharing her smart ideas even though she was very busy. He also thanked the people who organized the event.

This seminar was like a window into the future of technology, and it showed how AWS can make amazing things happen.

CONFERENCE BY CISCO NETWORKING ACADEMY

On 17th March 2023, a special seminar took place at GL Bajaj Institute of Technology and Management, focusing on getting students job-ready with the help of Cisco Networking Academy. The seminar lasted for one day and had some important guests.

Miss Laura Quintana, Vice President and General Manager of Cisco Networking Academy, along with Mr. Anurag Srivastava and Mr. Ishvinder Singh, shared their thoughts with the students. They were welcomed with bouquets and mementos by Dr. Pankaj Aggarwal and Dr. Manas Mishra.

Miss Laura mentioned how proud Cisco is to work with GL Bajaj to teach students about technology. She also highlighted the need to keep learning about the latest technologies to succeed in the software industry. Mr. Anurag shared that Cisco's program is making a big impact in India by helping students learn valuable skills.

The seminar covered topics like software engineering and the growing demand for tech professionals. The Cisco team also answered questions about cybersecurity, databases, networking, and more. The seminar was a big success and reminded everyone how important it is to keep learning and adapting in the tech world.



CAREER COUNSELLING EVENT

A Seminar on the topic "Career Counselling" was organized by the ACSE Department. It was 3 hours event where the eminent speakers shared their knowledge on Programming & DSA. DSA is a high-demand skill in the present scenario. This webinar was designed to give an insight into current industry trends and research paradigms of the area.

The opening remarks and the introduction to the program were done by Mr. Vivek Kumar Sharma the faculty coordinator. He introduced the Speaker of the day, Mr. Amit who is a member of EduTech-Microsoft and has Industry Experience of 6+ years in Data Science, Machine Learning & AI. He then highlighted the importance of DSA and its developments in the modern world.



In the end, Mr. Vivek Kumar Sharma gave the Vote of Thanks. He thanked Mr. Amit for sparing his time from his busy schedule and sharing his insightful and informative knowledge about Machine Learning with the attendees present. He also thanked the Members and coordinators for organizing such an event and making it a successful one.

INTERNAL HACKATHON KAVACH -2023

On 6th April 2023, the CSE Department and ACSE Department successfully organized an Internal Hackathon for KAVACH-23.

This event was conducted in a physical mode and had two phases: the Initial Phase/Idea screening round and the Grand Finale round. During the Initial round, the submitted ideas underwent thorough screening and scrutiny. The selected ideas moved on to the Grand Finale, which took place in July 2023. KAVACH 2023 consisted of two phases.

A group of experts evaluated the submitted ideas, selecting only the most innovative ones for the Grand Finale or 2nd round.

In the Grand Finale, selected participants were expected to build solutions, showcasing their concepts and proving the technical feasibility and implement ability of their ideas to the jury. The most exceptional ideas were declared as winners. The 36-hour hackathon, scheduled for July, saw the participation of talented youths from educational institutions across the country. Their technical expertise and innovative skills were put to work in crafting robust, secure, and effective technology solutions.



GUEST LECTURE ON BIG DATA

The guest lecture on innovative ways to store big data on the cloud by Prof. Dr. Antonino Galletta was a highly informative and engaging event. The lecture was organized by the ACSE Department on the 28th of April 2023 and was attended by a large audience, including students, faculty members, and professionals from various industries.

Prof. Dr. Galletta, a cloud technology development expert, shared his insights and knowledge on the latest techniques and trends in cloud-based storage solutions for managing big data. He highlighted the importance of efficient and secure big data management for organizations across various industries, and demonstrated some of the innovative solutions available to achieve this.

The lecture was highly interactive, with attendees asking insightful questions and engaging in discussions on various aspects of cloud-based big data management. Overall, the event was a great success, and attendees found it highly informative and helpful in gaining a deeper understanding of big data management on the cloud.



ESS GLOBAL SEMINAR

The ACSE department organized a seminar on overseas education opportunities on June 7th, 2023, under the direction of Dr. Naresh Kumar, ACSE Dean. It was held from 10:30 a.m. to 11:30 a.m. on the second floor of the Academic Block-1 building.

Around 700 students attended the event. ESS Global, a leading overseas education consultant, collaborated with the department to inform students about studying abroad. ESS Global has 17 branches across India and over a decade of experience in the field.

The seminar started with Ms. Attiuttama Mishra welcoming Ms. Ujjwal, the head of ESS Global's Noida branch. Ms. Ujjwal has eight years of experience helping students with study abroad, permanent residency, and career counseling. She then introduced three guest speakers.



The first speaker was Mr. Neelesh Tandon, a board member at BCES Global with 12 years of UK education experience. He discussed exams like GRE and TOEFL and top UK universities. Next, Ms. Shivani Kundal, the head of ESS Global's Canada admissions, spoke about Canada. She has 10 years in the field. The final speaker was Mr. Prashant Dhambhale from Trent University in Canada.

The speakers motivated students and explained how to choose the right path for overseas study. They also provided cutoff details for renowned universities in the UK, Canada, and Australia. In the end, Ms. Mishra thanked everyone and the successful seminar concluded.



INDUSTRIAL VISIT TO COGNIZANT

On June 13th, 2023, the department organized an industrial visit to Cognizant IT India Private Limited under the guidance of Mr. Sunil Chaurasia and Mr. Anurag Gupta.

The Academia staff and Cognizant team then discussed the training programs. Cognizant explained the curriculum they use to teach employees. The university teachers also shared what subjects they had covered so far in class. Cognizant said they would be happy to help with training and curriculum advice in the future.

While at Cognizant, the students got a chance to interact with the employees. Cognizant showed them around the office and demonstrations of their new technologies, ideas, and innovations. This gave the students exposure to cutting-edge work in the IT industry. It was a valuable experience for them to see the practical applications of what they were learning.

Overall, the industrial visit provided students great insight into Cognizant's operations. Both sides benefited from the discussion on collaborating more closely regarding education. It was a successful day of learning outside the classroom.



www.glbitm.org



GL BAJAJ
Institute of Technology & Management

FIND YOUR SPARK

Approved by AICTE & Affiliated to AKTU

Plot No. 2, Knowledge Park-III, Greater Noida - 201306

