



CSE Compute-Edge

Leading the Future of Computing

Official Department magazine

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Department of Computer Science & Engineering
Ajay Kumar Garg Engineering College, Ghaziabad, Uttar Pradesh, India

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About the Department of CSE

The Department of Computer Science and Engineering (CSE) at Ajay Kumar Garg Engineering College (AKGEC) was established in 1998, coinciding with the inception of the college. Since its foundation, the department has been a hub of academic excellence, research innovation, and technological advancement. With a mission to empower students through quality education, practical exposure, and research-driven learning, the department continues to set new benchmarks in engineering education.

The department offers a diverse portfolio of undergraduate and postgraduate programs designed to meet the growing demand for skilled professionals in emerging areas of computing:

- B.Tech. Computer Science and Engineering – 180 seats
- B.Tech. Computer Science – 150 seats
- B.Tech. CSE (Artificial Intelligence & Machine Learning) – 120 seats
- B.Tech. CSE (Data Science) – 120 seats
- B.Tech. Artificial Intelligence & Machine Learning – 60 seats
- B.Tech. CS (Hindi) – 60 seats
- M.Tech. Computer Science and Engineering – 18 seats

These programs integrate strong theoretical foundations with hands-on experience, ensuring students are industry-ready and research-oriented.

The department is enriched with a team of highly qualified, experienced, and dedicated faculty members who are passionate about teaching and research. They actively engage in cutting-edge research in areas such as Artificial Intelligence, Machine Learning, Cloud Computing, Cybersecurity, and Data Science.

B.Tech and M.Tech. scholars receive continuous mentorship and dissertation guidance, leading to quality research publications in reputed indexed journals and international conferences. The department encourages faculty-student collaboration, fostering innovation and lifelong learning.



CSE Faculty Team – Department of Computer Science & Engineering

Message from the Advisor



Prof. Amita Dev
Advisor, AKGEC
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It gives me immense pride and pleasure to present my message in the Departmental Magazine of the Computer Science and Engineering (CSE) Department of Ajay Kumar Garg Engineering College (AKGEC). The magazine reflects the department's strong commitment to academic excellence, technological innovation, research, and holistic student development.

In today's fast-evolving digital era, computer science and emerging technologies are key drivers of societal and industrial transformation. The CSE Department at AKGEC has proactively adapted to these changes by building a robust ecosystem that promotes quality education, innovative research, industry collaboration, and hands-on learning. Students' participation in initiatives such as the Smart India Hackathon and faculty engagement in research, conferences, and FDPs highlight the department's progressive outlook.

I appreciate the dedicated efforts of the faculty in shaping technically competent and ethically grounded professionals, and I commend the students for their enthusiasm, innovation, and hard work. I also congratulate the editorial team for compiling this magazine with creativity and diligence.

Best wishes,

A handwritten signature in green ink, appearing to read 'Amita', with a horizontal line underneath.

Prof. Amita Dev
Advisor, AKGEC

Message from the Director



Dr. Hemant Ahuja
Director, AKGEC
director@akgec.ac.in

I am extremely pleased to share my message for this Departmental Magazine of the Computer Science and Engineering Department. This magazine is a fine reflection of the department's scholarly enthusiasm, academic rigor, and diverse contributions over the years.

In today's rapidly changing technological landscape, Computer Science and Engineering plays a pivotal role in driving innovation, sustainability, and national development. The CSE Department has consistently demonstrated its commitment to quality education, state-of-the-art research, industry relevance, and the holistic development of students. The department's strong academic culture and progressive vision are evident through students' commendable performances on reputed national platforms and the faculty's active engagement in research publications, faculty development programs, conferences, and academic events that contribute meaningfully to the academic community.

I am particularly impressed by the dedication of the faculty members in mentoring students, fostering innovation, and nurturing ethically grounded and socially responsible technocrats. I also commend the students for their commitment, talent, and sustained efforts toward excellence in academics, research, technical competitions, and co-curricular activities.

I extend my heartfelt congratulations to the editorial team for their sincere efforts in bringing out this magazine, which serves as a valuable chronicle of the department's achievements and academic journey.

I am confident that the Department of Computer Science and Engineering will continue to excel in its academic and professional endeavors in the years to come.

Best wishes,

A handwritten signature in blue ink, appearing to read 'H. Ahuja', written in a cursive style.

Dr. Hemant Ahuja
Director, AKGEC

Message from the Head of the Department



Dr. Anu Chaudhary
HoD (CSE), AKGEC
hodcse@akgec.ac.in

It gives me immense pleasure to present the Department Magazine, which reflects the academic excellence, innovation, and collective achievements of our students and faculty members. This publication showcases the department's continuous efforts in academics, research, technical activities, and holistic student development.

The Department of Computer Science & Engineering remains committed to nurturing technical competence, critical thinking, innovation, and ethical values to prepare students for global challenges. A significant highlight of this academic year has been the outstanding performance of our students in the **Smart India Hackathon (SIH) 2025** where our teams demonstrated exceptional problem-solving abilities, creativity, and technical expertise at the national level. These achievements not only bring pride to the department but also reaffirm our strong mentoring ecosystem and industry-oriented learning culture.

I sincerely appreciate the dedicated efforts of our faculty mentors for guiding the SIH teams, as well as the enthusiasm and perseverance shown by the students in translating innovative ideas into impactful solutions. Such accomplishments motivate us to further strengthen experiential learning, interdisciplinary collaboration, and innovation-driven initiatives.

I also commend the editorial team, faculty coordinators, and students who have contributed their time, ideas, and creativity to make this magazine a meaningful representation of departmental activities. I am confident that this publication will inspire readers to explore new ideas, embrace innovation, and strive for excellence.

I wish the department continued success in all its academic and professional endeavors.

Best wishes,

A handwritten signature in blue ink that reads "A Chaudhary". The signature is stylized with a large initial 'A' and a horizontal line under the name.

Prof. (Dr.) Anu Chaudhary

Head of the Department

Smart India Hackathon (SIH) 2025 Achievements

Team YUKTEK secured First Position in the Smart India Hackathon '2025 in Software Edition, held on 8–9 December 2025 at NIT Durgapur, West Bengal, by successfully working on Problem Statement 25082, which involved developing a travel-related mobile application, "TrackMate", to capture trip-related data for analysis by NATPAC. The team was mentored by Mr. Manish Kumar, led by Tanvee Saxena (III Year-CS), with team members Abhaydeep Indwar (III Year-CSE-DS), Jyotsna Bhartiya (III Year-CSE), Tanisha Jain (III Year-CS-Hindi), Aarushi Vashisth (III Year-CSE) and Arjun Gupta (III Year-AIML). This innovative solution earned the team a cash prize of ₹1,50,000, marking a significant achievement for the entire team.



Team YUKTEK – Winners of Smart India Hackathon 2025, NIT Durgapur

Team SynChron secured the First Runner-Up position in the Smart India Hackathon 2025 (Software Edition), held on 8–9 December 2025 at IIT-ISM Dhanbad, Jharkhand, by successfully working on Problem Statement SIH25028, which focused on building an automated class scheduling platform for higher education institutions. The problem aimed to eliminate timetable clashes, classroom underutilization, faculty workload imbalance, and scheduling complexities arising from multidisciplinary academic structures. Team SynChron developed an intelligent timetable generation system powered by a Genetic Algorithm,

offering a flexible and adaptive approach to handle complex scheduling constraints and dynamic academic requirements. The solution incorporated all parameters defined in the problem statement and was further enhanced based on judges' suggestions during development. To elevate user experience and efficiency, the platform integrated an RAG-based chatbot for interactive assistance, an ML supported optimization layer to accelerate algorithm performance, and NLP-driven constraint handling for superior accuracy. This innovative approach enabled highly optimized, user-friendly, and scalable scheduling for multi-departmental academic structures. Team was mentored by Dr. Pawan led by Aaryan Kumar (II YEAR-CSE), with team members Ayush Singh (II YEAR-CSE), Aaryan Aggarwal (II YEAR-CSE), Bhavya Bhardwaj (II YEAR-CSE), Amresh Chaurasiya (II YEAR-CSE), and Divyanshu Dev (II YEAR-CSE-AIML).



Team SynChron – First Runner-Up, Smart India Hackathon 2025, IIT-ISM Dhanbad

The Smart India Hackathon experience was both challenging and deeply enriching. Building the TrackMate app for NATPAC involved intensive learning across coding, databases, and real-time trip tracking. Continuous mentoring and evaluations fostered innovative thinking, strong teamwork, and effective problem-solving, enhancing communication skills and strengthening our confidence and passion for innovation and technology.

Team: YUKTEK

Mentor: Mr. Manish Kumar Verma

Team Leader: Tanvee Saxena

Team Members:

Abhaydeep Indwar
Jyotsna Bhartiya
Tanisha Jain
Arjun Gupta
Aarushi Vashishth



Champions of SIH 2025 – Team YUKTEK

Faculty Seminars & Research Talks

Faculty Seminars and Research Talks serve as an important academic platform for strengthening the research culture and intellectual environment within an institution. These seminars provide faculty members with an opportunity to present their ongoing research work, share innovative methodologies, and discuss emerging developments in the field of Computer Science and Engineering. Such academic interactions encourage the exchange of ideas, promote scholarly discussions, and create a culture of continuous learning and improvement. Regular research talks also help faculty members stay updated with the latest advancements in technology, tools, and research directions, thereby ensuring that teaching and research remain aligned with global standards.

A key benefit of faculty seminars is that they promote interdisciplinary collaboration. Since computer science intersects with multiple domains such as healthcare, agriculture, cybersecurity, data science, artificial intelligence, cloud computing, and the Internet of Things, these sessions encourage faculty members to explore collaborative research opportunities across diverse areas. Discussions during seminars often lead to the identification of new research problems, development of joint projects, and preparation of proposals for funded research initiatives. Additionally, these platforms enable faculty members to receive constructive feedback from peers, refine their research objectives, and enhance the quality of their scholarly output.

For students, faculty seminars and research talks play a significant role in bridging the gap between classroom learning and real-world research practices. Exposure to faculty research presentations helps students understand how theoretical concepts are applied to solve practical problems. Students gain insights into research design, experimental procedures, data analysis techniques, and the use of advanced tools and computational models. Such sessions broaden their academic outlook and encourage them to explore emerging research areas beyond the standard curriculum.

Moreover, these seminars motivate students to develop a research-oriented mindset by familiarizing them with publication processes, ethical research practices, and the importance of innovation. Interaction with faculty researchers inspires students to pursue higher studies, undertake meaningful projects, and contribute actively to research activities within the department. Students also learn about current challenges in industry and academia, which enhances their critical thinking, analytical reasoning, and problem-solving capabilities.

Overall, faculty seminars and research talks contribute significantly to the academic excellence of the department by fostering innovation, strengthening research collaboration, and creating an environment of intellectual curiosity. They enhance the overall research ecosystem of the institution and support the development of competent professionals who are well-prepared for advanced studies, research careers, and industry challenges. By promoting continuous learning and knowledge sharing, these sessions play a vital role in building a strong foundation for sustainable academic and technological growth. Following faculties gave seminar on their respective research topics.

In addition, these seminars provide a valuable opportunity for young faculty members and researchers to gain confidence in presenting their work and engaging in academic discussions. They also encourage faculty-student interaction, enabling students to seek mentorship for projects, internships, and research publications. The insights gained from these sessions often contribute to curriculum enrichment, ensuring that students learn contemporary concepts relevant to industry demands. Furthermore, regular seminars strengthen the department's visibility by supporting high-quality publications, patents, and

collaborative research outcomes, ultimately contributing to institutional ranking, accreditation requirements, and long-term academic reputation.

Date of Presentation	Name of Faculty	Topic
25/10/25	Dr. Manoj Kumar Srivastava	Workflow Optimizing Fitness Function using A Bacterial Evolutionary Algorithm in cloud
25/10/25	Dr. Saroj Kushwah	A Multimodal Deep Learning Framework for product quality analysis on e-commerce platforms.
7/11/25	Ms. Vaishali Deshwal	Integrating DOM Analytics and Visual Deep Learning for Usability Evaluation of the SWAYAM Platform
11/11/25	Mr. Mayank Trivedi	Predictive analysis applied to Beluga Whale Optimization (BWO) - based task optimization in a cloud environment.
13/11/2025	Ms. Aastha Sharma	Malware Crypto-Jacking Attack and Algorithm Analysis in Blockchain Learning Network
14/11/2025	Ms. Arpita Agarwal	An Resource Management for Internet of Medical Things Using Machine Learning in 6G Communication Environments
10/12/2025	Mr. Mahesh Sharma	Design and Implementation of Enhanced Compression and Multi-Model Encryption Techniques for Secure Text Message Transmission
11/12/25	Mr. Beerbal	Exploring methods for deepfake detection: A survey on techniques used



Faculty Seminars & Research Talks: Fostering a Culture of Research and Innovation

Student Achievements (Technical & Sports)

In alignment with the institutional vision of AKGEC, the department ensures a supportive academic ecosystem that promotes the holistic development of students through academic, co-curricular, and extracurricular engagements. The department actively encourages student participation in technical, sports, and cultural activities to enhance professional competence, leadership qualities, teamwork, and overall personality development.

During the academic year **2025–26**, CSE department **student participations** were recorded across various competitive platforms. These participations included **technical events, sports activities, and cultural programs**, demonstrating balanced student involvement beyond academics. Students from **Computer Science & Engineering** programs actively represented the department.

Student participation was observed at multiple levels, including **college, university, state, national and international level** competitions. The events were organized by internal institutional bodies, universities, and external professional organizations, and were conducted in both **offline (various cities)** and **online modes**, ensuring wider exposure and accessibility.

The achievements and participation outcomes reflect the effectiveness of the department's student-centric ecosystem and substantiate compliance.

A collage of photographs documenting these events and student achievements is presented on the subsequent page as supporting evidence.



Glimpses of Student Participation in Technical, Sports and Cultural Events

Awards Won by Students (Odd Semester 2025-26)

S.No	Student Name	Name of the Event/Competition	Name of the Organizer	Place of Event	Date of Event	Name of the Award/Medal
1	Vishwajeet Tiwari	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
2	Shraddha Pandey	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
3	Anushka Sharma	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Gold
4	Kashish Singh	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
5	Shreya Sahu	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
6	Shikha Rawat	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
7	Swasti Sagar	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
8	Aditya Verma	SAKSHAM'25,Udg hosh'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
9	Vedansh Tripathi	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
10	Shivam Yadav	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
11	Shashank Sachan	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Runner up
12	Unnati Gupta	SAKSHAM'25,Udg hosh'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
13	Utkarsh Tiwari	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
14	Kashis Yadav	AKTU Zonals'25,	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
15	Vanshika Verma	SAKSHAM'25	AKTU States'25	GCET,Ghaziabad	06-07 Nov,2025	Gold
16	Abhay Singh	AKTU Zonals'25,	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Gold
17	Sneha	AKTU States'25	AKTU	GCET,Ghaziabad	06-07 Nov,2025	Third position
18	Khushi Rathore	AKTU Zonals'25,	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
19	Aarushi Jindal	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	UDGHOSH'25- Participation
20	Shreya Parashar	AKTU Zonals'25,	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Gold
21	Harsh Tripathi	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
22	Siddhant Singh Rana	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
23	Anshika	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
24	Satakshi Srivastava	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Zonals participation"
25	Manvesh Pandey	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
26	Saumya Singh	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
27	Krishna Gupta	AKTU Zonals'25,	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Na
28	Krishna Gupta	AKTU Zonals'25,	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Gold
29	Saksham Srivastava	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
30	Ansh Patel	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
31	Sujeet Tiwari	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver

32	Sarthak Upadhyay	AKTU Zonals'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
33	Anushka	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
34	Sarvesh Kumar Yadav	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Participation
35	Mayank Tripathi	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Participation
36	Satvik Sharma	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
37	Ashwani Rajput	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
38	Kirti Verma	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
39	Parth Pratap Singh	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
40	Shruti Bindal	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Udghosh - Semi Finalists"
41	Atharv	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
42	Utkarsh Tiwari	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
43	Amay Srivastava	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
44	Sneha Bindal	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
45	Snehil Teotia	SAKSHAM'25Udghosh'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
46	Dhruv	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Participation
47	Vansh Chauhan	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
48	Sai Nainsi Keshari	AKTU Zonals'25	AKTU	GCET,Ghaziabad	06-07 Nov,2025	Participation
49	Vidhi Chandra	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	5 th
50	Shreya Srivastava	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
51	Ujjawal Verma	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
52	Gaurav Kumar Rai	SAKSHAM'25, Udghosh'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
53	Alok Patel	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Runner up
54	Jyotsna Bhartiya	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
55	Garvit Rajput	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
56	Anand Kaushik	AKTU Zonals'25, SAKSHAM'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Gold
57	Lavaniya Singh	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Silver
58	Vishal Singh	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Silver
59	Mayank Singh Gautam	AKTU Zonals'25	AKTU	RKGIT,Ghaziabad	16-18 Oct 2025	Participation
60	Harsh Kumar	SAKSHAM'25	AKGEC,Gh aziabad	AKGEC,Ghaziabad	26-09-2025	Gold
61	Sushant	SAKSHAM'25	AKGEC	AKGEC,Ghaziabad	26-09-2025	Gold
62	Arpit Singh Chahal	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
63	Shreya Gupta	AKTU States'25	AKTU	GCET, Ghaziabad	06-07 Nov,2025	None
64	Anushka Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
65	Prakriti Verma	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
66	Tarun Kumar Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold

67	Ayush Verma	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
68	Harshit Singh	SAKSHAM'25	AKGEC, Ghaziabad	AKGEC, Ghaziabad	26-09-2025	Silver
69	Utkarsh Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Bronze
70	Nikhil Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
71	Yash Agrahari	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Winner
72	Swapnil Gupta	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
73	Aishnee Katiyar	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
74	Tanisha Bhatt	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
75	Hemant Maurya	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
76	Samanyu Saxena	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
77	Arjun Harshana	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
78	Harshit Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
79	Ragini Goel	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation
80	Vansh Pratap Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
81	Asmit Yadav	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
82	Lakshya Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
83	Kashish	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	4 th
84	Ayush Srivastava	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
85	Srishti Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
86	Siddharth Srivastava	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
87	Priyanka Verma	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
88	Vaishnavi Trivedi	AKTU Zonals'25	AKTU	GCET, Ghaziabad	06-07 Nov,2025	Gold
89	Rishika Kumari Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
90	Abhinav Tomar	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
91	Sidhanshi Choudhary	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Participation
92	Rohan Tiwari	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Winner
93	Jatin Mishra	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
94	Harsh Jain	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation
95	Divya Sharma	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
96	Meet Sharma	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
97	Aditya Vikram Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	
98	Sudhanshu Gupta	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
99	Utkarsh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation
100	Anshuman Pandey	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation

101	Disha Narwariya	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation
102	Priyansi	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	
103	Unnati Saxena	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
104	Kritika Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
105	Raunak Chhabra	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
106	Harshita Tiwari	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
107	Shisht Saxena	SAKSHAM'25,	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
108	Ayush Prabhakar	SAKSHAM'25,	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation
109	Deepti Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Participation
110	Aastha Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
111	Vishu	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Participation
112	Himanshu Rai	SAKSHAM'25, Udghosh'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
113	Swarnima Tripathi	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Participation
114	Sparsh Gupta	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	3 rd
115	Rishabh Singh	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
116	Sania Farzeen	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
117	Armaan Singh	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Gold
118	Gaurav Kumar Chaud	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Participant
119	Puneet Ratna Mishra	SAKSHAM'25, Udghosh'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold
120	Samrat Singh	AKTU Zonals'25	AKTU	AKGEC, Ghaziabad	16-18 Oct 2025	Silver
121	Piyush Sharma	SAKSHAM'25	AKGEC	AKGEC, Ghaziabad	26-09-2025	Silver
122	Vishwajeet Tiwari	AKTU Zonals'25	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Silver
123	Navneet Sinha	Anveshna	AKGEC	AKGEC, Ghaziabad	15-10-2025	Certification
124	Puneet Ratna Mishra	SCROLLS	AKGEC	AKGEC, Ghaziabad	29-10-2025	1st position
125	Sudhanshu Gupta	Saksham	AKGEC	AKGEC, Ghaziabad	26-09-2025	Gold Medal
126	Sania Farzeen	Zonals	AKTU	RKGIT, Ghaziabad	16-18 Oct 2025	Participation
127	Sania Farzeen	Saksham	AKGEC	AKGEC, Ghaziabad	20-09-2025	1st position
128	Sania Farzeen	Saksham	AKGEC	AKGEC, Ghaziabad	20-09-2025	1st position
129	Swarnima Tripathi	kho kho	GCET, Greater Noida	GCET, Greater Noida	06-11-2025	Gold medal
130	Tanishk Mishra	AKTU Sports	RKGIT	AKGEC, Ghaziabad	16-10-2025	Silver medal
131	Kashish	AKTU Sports	RKGIT	AKGEC, Ghaziabad	02-10-2025	Certification
132	Kashish	Udghosh	IIT Kanpur	IIT Kanpur	05-10-2025	Certification
133	Puneet Ratna Mishra	SAKSHAM	AKGEC	AKGEC, Ghaziabad	28-09-2025	1st position

134	Puneet Ratna Mishra	UDGHOSH	IIT Kanpur	IIT Kanpur	05-10-2025	Certification
135	Piyush Sharma	Saksham	AKGEC	AKGEC, Ghaziabad	28-09-2025	Gold medal
136	Shambhavi Tripathi	Consciousness Engineering Workshop	AKGEC	AKGEC, Ghaziabad	30-08-2025	Certification
137	Puneet Ratna Mishra	Acting Workshop	Natakbaaz Theatre	Delhi	30-05-2025	Certification
138	Akshi Rani	GLBITM, Greater Noida	GLBITM, Greater Noida	CII Majestic	9/24/2025	Second Prize
139	Himanshu Tomar	IIIT DELHI	IIIT DELHI	ForgeFest25	8/30/2025	Winner
140	Bhanu Pratap Singh	AKGEC, Ghaziabad	AKGEC, Ghaziabad	Mini Anveshna	10/14/2025	Winner

Mentorship Program Activities

The Mentorship Programme conducted during the odd Semester 2025–26 provided an enriching academic support system where experienced students mentor new students. The initiative aimed to foster confidence, encourage open communication, and enhance academic performance.

Third-year Computer Science and Engineering students actively mentored 2nd year students in core subjects such as Data Structures (BCS301) and Computer Organization and Architecture (BCS-302). The personalized attention offered by the mentors created a friendly and supportive learning environment, enabling students to freely discuss doubts and strengthen their understanding.

Special emphasis was placed on students who were hesitant to ask questions in regular classrooms. Mentors ensured thorough guidance by covering all topics and familiarizing students with examination patterns through discussions on previous years' question papers. The programme played a significant role in improving conceptual clarity, boosting confidence, and motivating students towards academic excellence.

Mentor Name	Subject Name	Subject Code
Priyanshi Porwal	Computer Organisation and Architecture	BCS 302 / BCS 302H
Nishi Sharma	Data Structure	BCS 301 / BCS 301H
Pranav Jain	Computer Organisation and Architecture	BCS 302 / BCS 302H
Bharat Kohli	Data Structure	BCS 301 / BCS 301H
Ritik Kr Pandey	Computer Organisation and Architecture	BCS 302 / BCS 302H



Mentorship Programme: Strengthening Academic Support through Peer Learning

Faculty Development Programs (FDPs) Organized

Generative AI for Holistic Healthcare: Smart Analytics for Humans and Crops

The Department of Computer Science & Engineering successfully organized an offline six-day AICTE-sponsored ATAL Faculty Development Programme (FDP) on “Generative AI for Holistic Healthcare: Smart Analytics for Humans and Crops.” The programme served as a valuable academic platform to explore the transformative role of Artificial Intelligence in improving healthcare systems and agricultural productivity. It witnessed enthusiastic participation from faculty members, researchers, and professionals, and brought together renowned experts from academia, research organizations, and industry.

The FDP aimed to enhance participants’ understanding of emerging AI paradigms, particularly Generative AI, and its application in building intelligent solutions for human health and crop analytics. The sessions emphasized the need for data-driven decision-making and smart predictive models to address real-world challenges such as disease diagnosis, clinical assistance, personalized treatment planning, crop disease detection, yield prediction, and sustainable farming practices.

The programme featured expert lectures and hands-on discussions on advanced topics including Machine Learning, Deep Learning, Reinforcement Learning, Federated AI, Computational Biology, AI-enabled Security, Robotic Process Automation (RPA), and Clinical Decision Support Systems. Participants gained deep insights into the design and deployment of AI models for medical imaging, healthcare monitoring, genomic research, and agriculture-based intelligent systems. Special focus was given to privacy-preserving AI techniques and secure analytics frameworks for handling sensitive health and agricultural data.

A major highlight of the FDP was the industrial visit to the National Institute of Immunology (NII), New Delhi, where participants were exposed to advanced laboratory infrastructure and real-time immunology research practices. The visit provided a practical perspective on how AI and computational tools can support biomedical research, diagnostics, and drug discovery. It also strengthened the linkage between academic learning and applied research.

Overall, the FDP successfully enriched the knowledge base of participants, encouraged interdisciplinary collaboration, and promoted innovative research thinking in the domains of healthcare and agriculture. The event contributed significantly towards capacity building and supported the vision of developing intelligent, secure, and sustainable AI-driven solutions for societal benefit.

In addition, the FDP provided a strong networking opportunity for participants to exchange ideas, share research interests, and explore future collaborative projects. Interactive sessions and expert guidance helped faculty members identify potential applications of Generative AI in their teaching, research, and consultancy work. The programme also motivated participants to integrate modern AI tools into academic curricula and student projects. By highlighting real-world case studies and emerging trends, the FDP strengthened awareness of AI’s role in building resilient healthcare systems and smart agriculture practices, aligning with national initiatives such as Digital India and Atmanirbhar Bharat.



AICTE-ATAL FDP on Generative AI for Holistic Healthcare



Glimpses of AICTE-ATAL FDP – Group Photograph

International Conference Organized

2nd International Conference on Advanced Computing and Emerging Technologies (ACET-2025)

Department of CSE successfully organized the 2025 2nd International Conference on “Advanced Computing and Emerging Technologies (ACET-2025)”. The two-day event, held on November 21-22, 2025, was technically co-sponsored by IEEE UP Section. Distinguished speakers, including **Prof Amita Dev** (Advisor, AKGEC), Prof. (Dr.) R. K. Chaudhary (IIT Kanpur), and Chief Guest Prof. (Dr.) S. N. Singh (Director, ABV-IIITM Gwalior), highlighted the global impact of emerging technologies and the accelerating digital revolution. International experts such as Prof. (Dr.) Shuai Li (Finland), Col. L. S. Chauhan (Indian Army), Mr. Rahul Autade (USA), Mr. Kanhiya Manuja (Canada), Prof. (Dr.) Akshay Rathore (Singapore), Mr Umesh Sharma (Barco Electronics, India), Prof Varun Kakar (BTKIT, India) and Prof Arun Kr Singh (REC, Kannauj) shared cutting-edge insights on AI, sustainability, automation, and digital transformation.

With a record 1172 submissions, only 200 papers selected after a rigorous review process, ACET-2025 stood out as one of India’s most competitive conferences. The valedictory session, graced by Prof. (Dr.) Mohd Rihan (Director General, NISE) and Prof. (Dr.) Asheesh K. Singh (MNNIT, Prayagraj), emphasized innovation for national development and global research opportunities. Supported by MeitY, GMA, Atisunya Pvt Ltd, and IEEE UP Section, the conference was led by **Dr. Anu Chaudhary**, **Dr Shashank Sahu**, **Dr. Ayushi Prakash** and **Dr. Avdhesh Gupta**, successfully positioning AKGEC as a global hub for cutting-edge research, technological excellence, and multidisciplinary collaboration.



Inaugural Ceremony of ACET-2025

Programming Club Activities

Programming Club

The Programming Club of Ajay Kumar Garg Engineering College (AKGEC) is a structured academic and professional body established with the objective of enhancing students' competencies in programming, algorithmic thinking, and problem-solving. The club functions as an integral part of the institution's outcome-based education framework by complementing the formal curriculum with hands-on learning, competitive exposure, and mentorship-driven skill development. It provides a systematic platform for students to translate theoretical knowledge into practical expertise aligned with current industry and global competitive standards.

In the contemporary technological landscape, proficiency in programming extends beyond syntax and language familiarity to include analytical thinking, optimization, and structured solution design. The Programming Club addresses these requirements by focusing on Competitive Programming and Data Structures & Algorithms (DSA), thereby supporting students in achieving academic excellence, employability, and research preparedness. The club plays a significant role in strengthening the institution's academic ecosystem through continuous student engagement and performance-driven outcomes.

Vision

The vision of the Programming Club is to develop a robust ecosystem that promotes excellence in programming, algorithmic thinking, and computational problem-solving, thereby producing technically competent graduates capable of performing effectively in competitive, research, and professional environments.

The club envisions:

- Establishing a strong culture of logical reasoning and analytical thinking among students.
- Preparing students to perform at national and international competitive programming platforms.
- Enhancing students' readiness for higher studies, research, and industry requirements.
- Creating future mentors, innovators, and leaders in the domain of computer science and allied fields.
- Contributing to the institution's academic reputation through sustained student achievements.

The vision is aligned with the institutional mission of providing quality technical education and promoting holistic student development.

Mission

The mission of the Programming Club is to provide structured, continuous, and outcome-oriented training in Data Structures, Algorithms, and Competitive Programming through organized academic and co-curricular activities.

The club aims to:

- Conduct regular workshops, training sessions, and hands-on coding practices.
- Facilitate participation in national and international competitive programming contests.
- Provide mentorship through senior students, alumni, and faculty coordinators.
- Encourage collaborative learning and peer-assisted problem-solving.
- Identify and nurture talented students for advanced competitive and professional opportunities.

These mission objectives support the attainment of Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) as prescribed under NBA guidelines.

Purpose and Objectives

The primary purpose of the Programming Club is to supplement the academic curriculum with experiential learning opportunities that enhance students' technical competence and professional preparedness. The club serves as a bridge between classroom instruction and real-world problem-solving.

The specific objectives include:

1. **Skill Enhancement:** To strengthen students' understanding of core computer science concepts through practical implementation.
2. **Competitive Readiness:** To prepare students for competitive programming contests and technical assessments.
3. **Employability Development:** To improve students' performance in technical interviews and placement processes.
4. **Academic Enrichment:** To promote analytical thinking, innovation, and lifelong learning.
5. **Leadership and Teamwork:** To develop communication, leadership, and collaborative skills among students.

Workshops and Training Programs

Regular workshops are conducted on foundational and advanced topics such as arrays, linked lists, stacks, queues, trees, graphs, dynamic programming, greedy algorithms, and advanced data structures. Sessions are designed with defined learning objectives, hands-on problem-solving, and outcome evaluation.

Coding Practice and Internal Competitions

The club organizes regular coding practice sessions and internal contests to simulate competitive environments. These activities help students improve accuracy, time management, and logical efficiency.

Participation and Stakeholder Involvement

The Programming Club is open to students from all academic years and disciplines with an interest in programming. Participation is based on motivation and willingness to learn rather than prior expertise, ensuring inclusivity and equal opportunity. Active student contributors over the years include Aakarsh Singh, Ayush Agrawal, Paras Upadhyay, Kapish Upadhyay, Shreyansh Mittal, Utkarsh Shukla, Satvik Maheshwari, Utkarsh Kumar Yadav, and Shreyansh Mohan, among others. Faculty coordinators provide academic oversight and ensure alignment with institutional objectives. Alumni engagement remains a key strength of the club's sustainability model.

Achievements and Outcomes

The Programming Club has demonstrated consistent performance in prestigious competitive programming platforms, particularly the International Collegiate Programming Contest (ICPC). The club's teams have qualified as Regionalists in multiple editions, including performances at the Kanpur, Chennai, and Amritapuri regional sites.

In 2024, the club achieved Regionalist status at the Amritapuri Doublesite Regional Contest and received Team Excellence recognition. These achievements reflect the effectiveness of the club's structured training methodology, teamwork, and academic rigor.

The outcomes of the club's activities are evident in improved student performance in competitions, placements, internships, and higher education pursuits.

Role of Alumni and Mentorship

Alumni involvement plays a significant role in the continuous improvement of the Programming Club. Alumni such as Righved Kumar and Suresh Upadhyay contribute through mentorship, guidance sessions, and knowledge sharing. Their professional achievements provide role models for current students and reinforce the importance of strong fundamentals and consistent practice.



Programming Club: Building Excellence in Competitive Programming and DSA

Workshops Organized

Cloud 2.0: Accelerating Transformation through Automation:

The Department of Computer Science and Engineering (CSE) organized a one-day expert talk on “Cloud 2.0: Accelerating Transformation through Automation” on 13th October 2025 for 3rd-year CSE students. The session was conducted by Mr. Tushar Kaushik, Senior Cloud and DevOps Solution Architect, Sapient Technologies Pvt. Ltd., Gurgaon. The talk aimed to provide insights into the evolving landscape of **Cloud Computing 2.0**, emphasizing the integration of automation, DevOps, and AI-driven cloud operations that are redefining modern IT infrastructure and enterprise digital transformation.



Expert Talk on Cloud 2.0: Accelerating Transformation through Automation

One-Day Workshop on Applied Statistics:

The Department of Computer Science and Engineering successfully organized a **One-Day Workshop on “Applied Statistics”** on **13th October 2025** in association with **Froyo Technologies Pvt. Ltd., Noida**. The workshop was specifically designed for **M.Tech 1st Year students** to strengthen their conceptual and practical understanding of statistical methods and their applications in research and data-driven decision-making.

The session was conducted by **Mr. Rajinder Chitoria, Founder & Director, Froyo Technologies Pvt. Ltd.**, who shared his extensive industry experience and insights into real-world applications of statistics in technology and research domains.



Glimpses of One-Day Workshop on Applied Statistics

Digital India Talk Show:

The Department of Computer Science & Engineering, Ajay Kumar Garg Engineering College (AKGEC), successfully organized the “Digital India Talk Show” on October 9, 2025, in collaboration with the National e-Governance Division (NeGD), MeitY, Government of India. The event highlighted key initiatives such as DigiLocker, UMANG, ABC–NAD, and the Digital Data Protection Act 2023, aiming to promote awareness on cybersecurity, digital governance, and e-literacy. Experts from NeGD shared valuable insights on building a digitally empowered and secure India.



Digital India Talk Show Organized in Collaboration with NeGD, MeitY

How Prompts Shape Intelligence:

The Art and Science of Talking ToMachines: The Department of Computer Science and Engineering (CS Branch) successfully organized a one-day talk titled “**How Prompts Shape Intelligence: The Art and Science of Talking To Machines**” on **4 September 2025**. The session aimed to bridge the gap between theoretical knowledge and practical applications of artificial intelligence, focusing on effective communication with machines through well-designed prompts. The resource person for the talk was Mr. Samrat Mukherjee, AI and Data Analytics Expert, Senior Manager Data Analyst, Abbott India Limited, Noida. Mr. Mukherjee delivered an insightful talk on how prompts act as the foundation for guiding machine intelligence. Mr. Mukherjee explained the **art and science of designing prompts** and their significance in applications such as **chatbots, generative AI tools, and natural language processing systems**.



Glimpses of Expert Talk on Prompt Engineering and AI Communication

Mini Anveshana (2025–26)

Ajay Kumar Garg Engineering College (AKGEC) successfully organized Mini Anveshana 2025-26 on 14-15 October 2025, a vibrant two-day event dedicated to promoting creativity, innovation, and technological excellence among students. The programme witnessed enthusiastic participation from 113 student teams who presented innovative and impactful projects aimed at solving real-world challenges through engineering and scientific approaches. The event provided an excellent platform for students to showcase their technical skills, creativity, and problem-solving abilities. Several remarkable projects were displayed, reflecting the institution's commitment towards nurturing innovation-driven learning and entrepreneurship.

The winners of the competition were:

1st Prize “*Vasuki – Disaster Site Snake Bot*” by Rakhi Sharma, Utkarsh Raj, and Garvit Sharma (IT)

2nd Prize: “*Gyan-Dhwani AI-powered Call Assistant*” by Mrigank Raj and Satvat Navid (CSE)

3rd Prize: “*Sanraksham – Smart Chest Strap*” by Tushar Saini and Nitigya Garg (CSE)

4th Prize: “*Oral Cancer AI Screener*” by Raj Aryan and Nitish Kumar (IT)

5th Prize: “*Woman Safety Device*” by Jatin Mishra and Mayank Sharma (CSE–AIML)

A special mention was given to the Top 20 teams who received consolation certificates for their commendable efforts and innovative contributions. The event was further strengthened by the valuable evaluation and insights shared by distinguished expert panellists Dr. Rohit Singh (Shiv Nadar University), Mr. Salman Khursheed Ahmad (Galgotias University) and Ms. Shashibala Agarwal (MAIT). Overall, Mini Anveshana 2025–26 stood as a testimony to the collaborative spirit, passion, and innovative culture of AKGEC, inspiring students to convert ideas into impactful technological solutions.



Mini Anveshana 2025–26: Where Ideas Turn into Innovation

Design & Thinking Workshop

The Department of Computer Science & Engineering successfully organized a Design & Thinking Workshop on 4th September 2025 in collaboration with the Agastya International Foundation. The workshop was conducted for 3rd-year B.Tech students with the objective of strengthening their innovation and problem-solving capabilities through the **“Five Steps of Innovation.”** The session aimed to move beyond theoretical learning by providing students with a structured framework to identify challenges, analyze user needs, and develop effective solutions for real-world problems.

The workshop included interactive discussions and hands-on activities that encouraged active participation and creative thinking. The feedback received was highly encouraging, with more than **96% of students rating the workshop as “Very Good” or “Excellent,”** and nearly 95% students expressing confidence in applying these skills in future academic and project work. Students found the **“Empathize” and “Ideate”** stages most insightful and described the session as innovative, engaging, and inspiring, especially for addressing rural challenges.



Design & Thinking Workshop: Building Creativity, Empathy and Problem-Solving Skills

ACM Student Chapter

Hour of Code 4.0

On 7th November 2025, the ACM student chapter at Ajay Kumar Garg Engineering College held its annual "Hour of Code" coding competition. The event was a great success, with 100 students from the college participating. The competition consisted of a series of coding challenges in languages such as C, C++, and Java. The challenges were designed to test the students' problem-solving skills and knowledge of programming concepts such as loops, variables, and data types. The competition was fierce, with students working hard to complete the challenges as quickly and accurately as possible. The competition consisted of a series of coding challenges, designed to test the students' skills and knowledge in a variety of programming languages. The winners of the competition were awarded with cash prize and certificates.



ACM Hour of Code 2025: Annual Coding Competition at AKGEC

Faculty Participation in FDPs / Conferences / Workshops

The faculty members of the Department of Computer Science and Engineering (CSE), AKGEC, continually strive to enhance their academic and professional expertise through active participation in Faculty Development Programmes (FDPs), workshops, and training sessions organized by reputed institutions.

During the academic session, several faculty members attended FDPs focusing on emerging technologies including Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Cloud Computing, Cybersecurity, Internet of Things (IoT), and Generative AI. These programmes provided valuable insights into the latest advancements in teaching-learning methodologies, research innovations, and industry trends.

Participation in such initiatives not only strengthens the technical proficiency of the faculty but also enhances the academic ecosystem of the department by integrating contemporary knowledge, innovative pedagogies, and research-oriented practices into the curriculum. The department takes pride in its faculty's dedication to continuous learning, upskilling, and contributing towards academic excellence.

Faculty Development Programme

S.No	Faculty Name	Type	Duration	Date	Event Name	Organized By
1	Mr. Vikas	FDP	5 Days	24 -28 September 2025	NITTTTR_FDP: Research Methodology	Education and Educational Management Department, Chaudhary Charan Singh University, Meerut
2	Mr.Vikas	FDP	12 weeks	July-October 2025	NPTEL_FDP: Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL
3	Mr.B N Pandey	FDP	5 Days	4-8 August 2025	Generative AI	Brainovision Solutions India Pvt. Limited
4	Mr.B N Pandey	FDP	3 Days	13-15 August 2025	Structure to Innovation: Leveraging Critical Theory to Foster Faculty Engagement and Research Culture in ELT	Amity University, Tashkent
5	Mr.B N Pandey	FDP	6 Days	25-30 August 2025	Quantum Computing with Artificial Intelligence: Convergence and Applications	Gayatri vidya parishad college for degree and pg courses
6	Mr.B N Pandey	FDP	6 days	06-11 October 2025	From Goals to Outcomes: Designing Education for Measurable SDG Impact	Teerthanker Mahaveer University, Moradabad

Patent Filed / Published

A published patent represents an innovative idea made publicly accessible after formal examination. It protects intellectual property, promotes technological dissemination, and encourages research-driven development. Patent publication enables knowledge sharing, prevents duplication, and inspires further innovation while recognizing the inventor's contribution to scientific and industrial advancement. Faculty members of AKGEC are actively involved in publishing patent and innovations.

Faculty Name	Title of Patent/ Design	Patent/ Design Published Date/ Granted Date(DD/MM/YYYY)	Status of Patent (Filed/Published/ Granted)
Ms. Bhumica Verma	Smart energy meter with taper detection and gsm based building system and working method thereof	25/07/25	Filed
Ms. Bhumica Verma	System for ai- based detection of deepfakes in video content and working method thereof	25/07/25	Filed
Mr. Pronab Kumar Adhikari	A Deep Learning Approach to IoT Security: Detecting and Preventing Cyber Threats	10/7/2025	Filed
Ms. Amrita Bhatnagar	Real Time Integrated smart parking and traffic Management System	11/7/2025	Published

Book Chapters Published

Book chapter publication reflects scholarly contribution to advancing knowledge in a focused domain. It presents original insights, methods, or applications, bridges theory and practice, and reaches a global academic audience. Such chapters strengthen research visibility, support interdisciplinary dialogue, and demonstrate sustained engagement with contemporary challenges and emerging trends worldwide impact.

S.No	Faculty Name	Chapter Title	Book Name	Publisher Name & details	Published Date
1	Dr. Jaishree Jain	Unveiling Customer Churn Patterns in Telecommunication Industry: An Indepth Analytical Approach	Recent Trends in Intelligent Computing and Communication	Taylor & Francis Group	October 2025
2	Dr. Sonam Gupta	Predicting the legal judgments from legal documents: a survey	Research Handbook on Information Systems and Society	Edward Elgar	October 2025
3	Dr. Rupa Rani	Deep Learning Based Approach for Compressing Genomic Sequence Data	Applications of Deep Learning in Genomics	Taylor & Francis Group	November 2025

Research Papers Published/Presented

The **Computer Science & Engineering (CSE) faculty at Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad** actively contribute to research through publications and conference presentations. Faculty members have published numerous papers in peer-reviewed and indexed journals as well as at national and international conferences, contributing to fields like machine learning, deep learning, IoT, security, and health-care analytics. Recent specific CSE publications include works on disease prediction using machine learning, security in AI applications, gesture recognition with deep learning, IoT-based accident detection systems. These efforts reflect the department's strong research culture and scholarly output.

1. Gupta, P., Gupta, S., Goel, L., Agarwal, A. K., Singh, A., & Ramesh, G. (2025). *Hybrid convolutional neural network and generative adversarial network framework for robust deepfake detection: Advancing accuracy, scalability, and multimodal integration*. *Journal of Visualized Experiments*, (222), Article 68426. <https://doi.org/10.3791/68426> (SCIE)
2. Vikas, Prasad, R., Upadhyay, S. K., & Kumar, A. (2025). *Zero trust-driven anomaly detection framework for wireless sensor networks*. *International Journal of Performability Engineering*, 21(8), 463–471. [10.23940/ijpe.25.08.p6.463471](https://doi.org/10.23940/ijpe.25.08.p6.463471) (SCOPUS)
3. Taluja, A., Kumar, H., Bhuvana Suganthi, D. *et al.* Cloud IoMT-Enabled Brain Tumor Detection Using Optimized Dilated Residual Attention Network. *Biomedical Materials & Devices* 4, 1069–1088 (2026). <https://doi.org/10.1007/s44174-025-00468-1>(SCIE)
4. Prakash, N., Kumar, S., Pandey, B. N., Singh, H. R., SauravChandra, & Pandey, M. S. (2025). *Data mining in big data analytics: Exploring machine learning techniques for pattern recognition*. *International Journal of Environmental Sciences*, 11(24s), 4687–4695. <https://doi.org/10.64252/1q35pn68>(SCOPUS)
5. Prajapati, Y. N., Baloni, D., & Gupta, A. (2025). *Optimized heart disease image classification on edge devices using knowledge distillation and layer compression*. *Journal of Image and Graphics*, 13(5), 459–468. <https://doi.org/10.18178/joig.13.5.459-468> (SCOPUS)
6. Upadhyay, S. K., & Prasad, R. (2025). *Efficient-ViT B0Net: A high-performance lightweight transformer for rice leaf disease recognition and classification*. *Journal of the Nigerian Society of Physical Sciences*, 7(4), 2940. <https://doi.org/10.46481/jnsps.2025.2940> (SCOPUS)
7. Rahul, M., Jha, S. K., Khan, M. I., Prakash, A., Pal, P. R., & Yadav, V. (2025). *Feature level fusion of fingerprints and iris for the enhancement of biometric system*. *Recent Advances in Electrical & Electronic Engineering*, 18(7), 984–990. <https://doi.org/10.2174/0123520965293198240418063311>
8. Singh, N., Jaiswal, U.C. Sentiment analysis on playstore user reviews of healthcare apps using deep learning techniques. *Health Serv Outcomes Res Method* (2025). <https://doi.org/10.1007/s10742-025-00354-9>
9. Maurya, S., Diwan, P., Dhumale, A., Singh, K., Srivastava, V., & Jain, J. (2025). *Energy-efficient distributed systems for large-scale data processing*. *IET Conference Proceedings*. <https://doi.org/10.1049/icp.2025.1564>
10. Prajapati, Y. N., Baloni, D., & Gupta, A. (2025). *Role of artificial intelligence in disease detection of various crops in agriculture*. In *Proceedings of the 5th International Conference on Intelligent Technologies (CONIT 2025)*. IEEE. <https://doi.org/10.1109/CONIT65521.2025.11167165>
11. Paliwal, Y., & Upadhyay, S. K. (2026). *Crop and fertilizer recommendation system using machine learning*. In *Proceedings of the International Conference on Computational Intelligence and Information Retrieval* (pp. 205–215). Springer. https://doi.org/10.1007/978-3-032-04539-3_15

Star Performers from CSE Department

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