



**AJAY KUMAR GARG
ENGINEERING COLLEGE**

**NAAC
GRADE A++**
The Only Pvt. Engineering College in
UP having NAAC A++ Grade



**QS I-GAUGE
DIAMOND**



THE LOOP

Volume : 1 Issue : 1 (Session : 2025-26)



Department of Information Technology

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MESSAGE FROM ADVISOR'S DESK

It gives me immense pleasure to witness the continuous academic growth, innovation culture, and holistic development taking place within the IT department at AKGEC. In today's rapidly evolving world, technical excellence must go hand-in-hand with creativity, ethical values, and an entrepreneurial mindset.

Our institution is committed to nurturing not only skilled professionals but also responsible innovators, researchers, and future leaders. Through academic rigor, industry engagement, research initiatives, innovation activities, and startup-oriented programs, we aim to create a learning ecosystem that prepares our students for real-world challenges and global opportunities.

I encourage our students to actively participate in academic activities, research projects, innovation programs, and skill development initiatives, and I urge our faculty members to continue their dedication towards excellence in teaching, mentoring, and research. Together, we can build a strong culture of knowledge, innovation, and impact-driven education.

I extend my best wishes to the Department of Information Technology for all its academic, research, and innovation endeavours, and I congratulate the team for their continued commitment to excellence.

Prof. Amita Dev

Advisor, Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad

MESSAGE FROM HOD'S DESK

It is my pleasure to present this edition of IT Spectrum, the IT Department newsletter. This issue highlights our academic achievements, research initiatives, and student accomplishments for the semester August–December 2025. Our department strives for excellence through continuous learning, innovation, and teamwork. I congratulate the team for their efforts and encourage everyone to keep moving forward.

Dr. Rahul Sharma

HoD, IT

Vision & Mission



Vision

The vision of IT department is to produce highly competent and socially sensitive IT professionals and innovators, capable to excel in the multicultural and challenging industry scenario.



Mission

To establish a truly professional academic environment where sound and transparent teaching-learning processes are practiced by all stakeholders of the organization that helps in producing all around competent, humane and socially responsible industry-ready engineers who are capable of taking challenges from ever-demanding multi-cultural industrial environment.

EDITORIAL NOTE

It is a matter of great pride and pleasure to present this edition of the IT Department Newsletter. This publication reflects the collective efforts, achievements, and continuous progress of our students and faculty in academics, research, innovation, and professional development. In an era driven by rapid technological advancement, the field of Information Technology plays a pivotal role in shaping the future. Our department remains committed to delivering quality education, fostering critical thinking, encouraging research orientation, and nurturing innovation and entrepreneurship among students. Through academic initiatives, technical activities, industry collaborations, workshops, hackathons, certifications, and research programs, we strive to bridge the gap between theory and practice.

This newsletter stands as a platform to showcase the academic accomplishments, student achievements, faculty contributions, research activities, and innovative initiatives of the department. I sincerely appreciate the efforts of the editorial team, faculty members, and students who have worked diligently to make this publication meaningful and impactful.

I encourage our students to remain curious, creative, and committed to excellence, and our faculty to continue inspiring young minds through mentorship, research, and innovation-driven teaching.

Warm regards,

Dr. Anju Mishra

Associate Professor, Editor

Department of Information Technology

AKGEC, Ghaziabad

Acknowledgment & Editorial Team

We sincerely thank the faculty coordinators, student editorial board, and design team for their dedication and teamwork in bringing out this edition of the department newsletter.

Faculty Coordinators: Mr. Pankaj Singh, Assistant Professor, IT Department

Student Editorial Board: Aviral Gupta (Roll No. 2400270130053)

Anuhska Agarwal (Roll No. 2400270130043)

Design Team: Mr. Jagdish Jha, Graphic Designer

Department at a Glance

The Department of Information Technology, is dedicated to delivering quality technical education with a strong emphasis on innovation, industry relevance, and holistic student development. The department consistently aligns its academic practices with the institutional vision, AICTE guidelines, and the National Education Policy (NEP) 2020, focusing on outcome-based education and continuous improvement. The department offers undergraduate programmes in Information Technology (IT) with an intake of 180 students and Computer Science & Information Technology (CSIT) with an intake of 120 students. These programs are designed to build strong foundations in computing principles while equipping students with practical skills required by the rapidly evolving IT industry.

The department is supported by a team of highly qualified and experienced faculty members with expertise across core and emerging areas of Information Technology. Faculty members actively engage in teaching, research, curriculum development, mentoring, and professional development activities to ensure academic excellence and student success. The major thrust areas of the department include Artificial Intelligence and Machine Learning, Data Science and Big Data Analytics, Cyber Security, Cloud Computing, Internet of Things (IoT), Software Engineering, and Web Technologies. These focus areas are integrated into academic delivery through courses, projects, certifications, and hands-on laboratory work.

The department is equipped with well-established laboratories, modern computing infrastructure, licensed software tools, and high-speed internet connectivity. The Centers of Excellence and specialized labs support advanced learning, research, and innovation activities, enabling students to work on real-world problems, interdisciplinary projects, and emerging technologies.

Research & Innovation

The IT Department continues to nurture a vibrant research culture among faculty and students. This year alone, faculty members have published over 30 research papers in prestigious refereed journals and conferences, showcasing robust output in engineering and technology fields. A substantial number of these articles, authored by faculty and students, appear in high-impact, indexed sources such as Scopus, SCI, and ESCI. Explore the complete list of indexed publications from the department faculty on the official departmental page [CLICK HERE](#)

Innovation Spotlight

Over the past two academic years, the Department has achieved remarkable innovation milestones with more than 50 patent filings and publications, led by dedicated faculty and students. Find more information [CLICK HERE](#)

Key highlights for 2025 include:

- Research publications: 30+
- IPR (Patents and copyrights): 50+ filed/published; 10+ patents granted

Through these contributions, the department continues to strengthen its research ecosystem, advancing scholarly excellence, and providing students with opportunities in publication, innovation, and real-world problem solving.

FACULTY ACHIEVEMENTS

Distinguished faculty served as Session Chairs at prestigious platforms:

- Dr. Sunil Kumar - International Conference organized by Galgotias University, Greater Noida, and Chandigarh University, Chandigarh
- Dr. Anju Mishra - International Conference organized by ABESEC, Ghaziabad
- Dr. Shivani Aggarwal - International Conference organized by Symbiosis Institute of Technology, Nagpur
- Dr. Pancham Singh - International Conference organized by Raj Kumar Goel Inst. And CNR NANOTEC Italy + Hansraj College Delhi

Faculty successfully led transformative programs:

- Dr. Ruchi Gupta organized 180-hour Capgemini Student Transformation Program with ICT Academy
- Dr. Anupama delivered a talk on Building Automation Specialist Course under DGR Program on "Dynamics of Digital Media"
- Mr. Pancham Singh served as an editorial member of the edited book Automating Software Defect Detection Through ML & LLMs (IGI Global, Oct 2025)
- Dr. Anupama, Dr. Ruchi, Dr. Anju, and Dr. Shivani represented the Department of IT at WIE International Event by IEEE.



Student Achievements

Ajay Kumar Garg Engineering College (AKGEC) consistently nurtures a culture of innovation and excellence among its students. Demonstrating outstanding capabilities in both software and hardware development, our teams have earned national accolades and prestigious awards, underscoring the institute's commitment to cutting-edge research and practical solutions. Complementing these academic achievements, AKGEC's dynamic sports programs foster teamwork, leadership, and holistic development, enriching the student experience and strengthening the college's vibrant community spirit.



AKTU MERIT LIST 2025

Department of Information Technology

Heartiest Congratulations

AKTU MERIT LIST 2025



Shiv Prakash Singh

Roll Number - 2100270130159
(2nd Rank, Silver Medal)
Branch - IT



Aaradhya

Roll Number - 2100270130002
(3rd Rank, Bronze Medal)
Branch - IT



Madhur Vikram Singh

Roll Number - 2100270130109
(5th Rank)
Branch - IT

SMART INDIA HACKATHON 2025

Software Development Category

Software Development category and represented our institute at Nalla Malla Reddy Engineering College, Hyderabad. The team proudly bagged a prize of ₹1.5 Lakh, making us all proud



Hardware Development Category

Ajay Kumar Garg Engineering College, Ghaziabad, continues its strong presence at the Smart India Hackathon (SIH) 2025 with two more teams representing the institute at prestigious national nodal centres, showcasing innovation and excellence in hardware-based solutions.

Team Astra 2.0

Ministry: Electronics & IT Department, Odisha

Problem Statement: Disaster Response Drone for Remote Areas

Category: Hardware

Nodal Centre: Gandhi Institute of Engineering and Technology University, Gunupur

Mentor: Mr. Pancham Singh / Mr. Abhishek Tiwari

Team Members:

Avi Mittal | Arya Bhushan | Amogh Varshney | Dhruv Chauhan | Ankur Debnath |

Kashish Yadav



STUDENT IEEE CHAPTER ACTIVITY

INSIGHT·25 – The Knowledge Pillar, a technical and knowledge-oriented event, was organized by the IEEE AKGEC Student Chapter on October 16, 2025, from 10:00 a.m. to 12:30 p.m. at the CSIT Seminar Hall. The event aimed to foster awareness, learning, and professional growth among students by connecting them with experts from academia and industry.

IEEE (Institute of Electrical and Electronics Engineers) stands as the world's largest professional technical organization dedicated to advancing technology for humanity. It offers students global exposure through various technical events, conferences, workshops, research opportunities, and leadership programs. Additionally, IEEE supports innovation by encouraging students to work on impactful ideas and projects through grants, funding opportunities, competitions, and mentorship under its diverse societies and programs.

The distinguished guest speaker for INSIGHT·25 was Dr. Arun Kumar Singh, Dean (Academics) at IET Lucknow and Chairman of the IETE Lucknow Centre. His presence significantly enriched the session as he shared his academic journey, professional experiences, and valuable guidance for students aspiring to build careers in core technical domains.



ACHIEVEMENT OF INFORMATION TECHNOLOGY



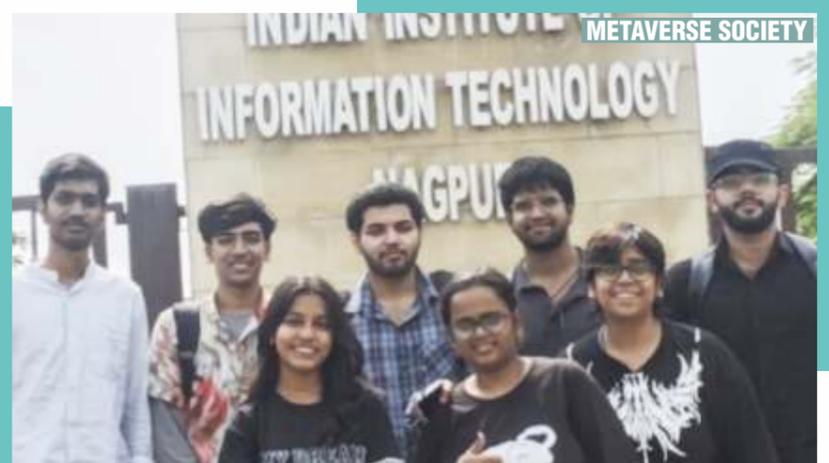
IIT Ropar (Advitya'25 Gamejam)
2nd Place (Silver Medal)
7th-9th February 2025, Ropar



IIT Delhi (Forgefest'25 Gamejam)
1st Place (Rs.30K price)
30th August 2025, Delhi



IIT Jodhpur (Prometeo'25 Gamejam)
1st Place (Rs.50K price)
19th January 2025, Jodhpur



IIT Nagpur (TantraFiesta'25 Gamejam)
2nd Place (Rs.30K price)
10th October 2025, Nagpur

Saksham The Sports Fest



- **Silver in shot put**
- **Silver in cricket**
- **Silver in football**

Industry Partnerships & Engagement

At AKGEC, the department excels in forging strong industry ties through MoUs with leading firms like Bosch Rexroth, Siemens, and Mitsubishi Electric. These partnerships open doors for students via internships, industrial visits, and hands-on training with organizations such as BHEL, DRDO, Samsung, and Indian Railways. A brief summary of Guest Lectures delivered by Eminent Experts are listed below:

- 02 May 2025: Blockchain Technology with Cloud Computing – Mr. Ashwin Saxena, Founder CEO, CybraNeX
- 08 May 2025: Generative AI and Future Tools – Mr. Nitin Kumar Sharma, AI Manager, ICT Academy
- 15 May 2025: AZURE AI & Cloud Computing – Mr. Shailendra Chauhan, Microsoft MVP, Cloud Solution Architect, ScholarHat
- 19 May 2025: A walkover to Cybersecurity – Mr. Omesh Kumar Yadav, Senior Software Engineer, Cloud Infrastructure, Corelight, India

INDUSTRY VISITS

Each year, the department organizes strategic industry visits to give students invaluable real-world insights. The following visits took place in 2025:

- 15 Jan 2025: InMorphis, Sec 132 Noida – B.Tech. (IT/CSIT) II Year
- 17 Jan 2025: InMorphis, Sec 132 Noida – B.Tech. (IT) II Year
- 23 Jan 2025: Coca-Cola Happiness Factory, Greater Noida - B.Tech. (IT/CSIT)

The college's alumni mentorship program connects students with seasoned graduates for career guidance. Specialized Centers of Excellence and the Research and Industrial Consultancy Centre boost skill-building, innovation, and practical research, preparing students as industry-ready innovators committed to social impact.



**IEEE International Conference
On
Next Generation Information System Engineering**

IEEE International Conference on Next Generation Information System Engineering (NGISE-2025) organized by the Department of Information Technology, Ajay Kumar Garg Engineering College, Ghaziabad. The International Conference on Next Generation Information System Engineering (NGISE) offers a dynamic platform for researchers, industry practitioners, and academicians to delve into the forefront of technological innovation across a diverse spectrum of domains.



FACULTY DEVELOPMENT PROGRAM 2025

FDP/Workshop/Training Organized Odd Sem : 2024-25

S.no	Name of Coordinators	FDP Title	Organizer Name	No. of Days
1	Dr. Nitin Sharma Dr. Shivani Aggarwal	Generative AI Mastery from foundations to Application	ATAL in AKGEC, GZB	6 Days
2	Mr. Santosh Mishra	ICT Tools for Smart Educators	NITTTR in AKGEC, GZB	5 Days
3	Mr. Santosh Mishra	Matlab Training	Matlab	1 Days

 **AJAY KUMAR GARG
ENGINEERING COLLEGE**

 *DesignTech*
Empowering the education for future

WORKSHOP ON MATLAB

Resource Person:



Manoj Kumar
Assistant Manager
DesignTech Systems Pvt. Ltd.

Organizing Committee:



Dr. Ruchi Gupta
Professor
IT Department



Dr. Anupama Sharma
Officiating HOD
IT Department



Mr. Santosh Kumar Mishra
Assistant Professor
IT Department

 **DATE**
8th JANUARY 2025

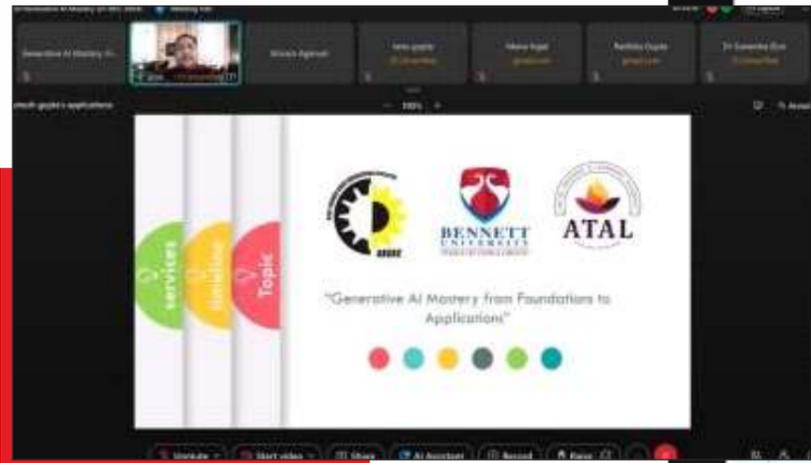
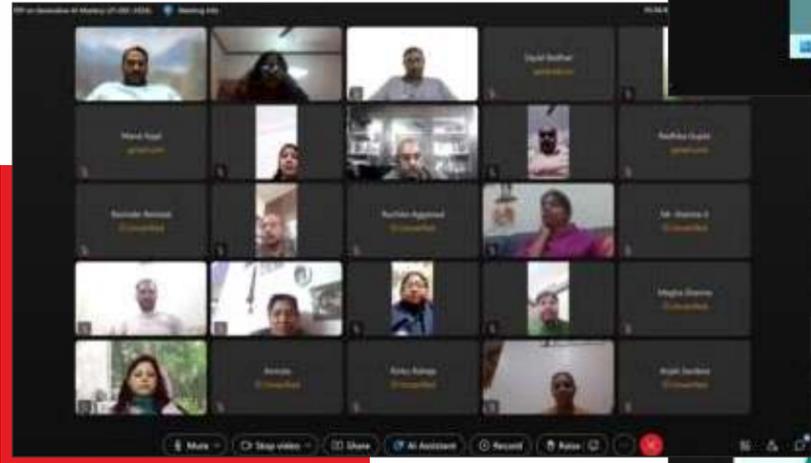
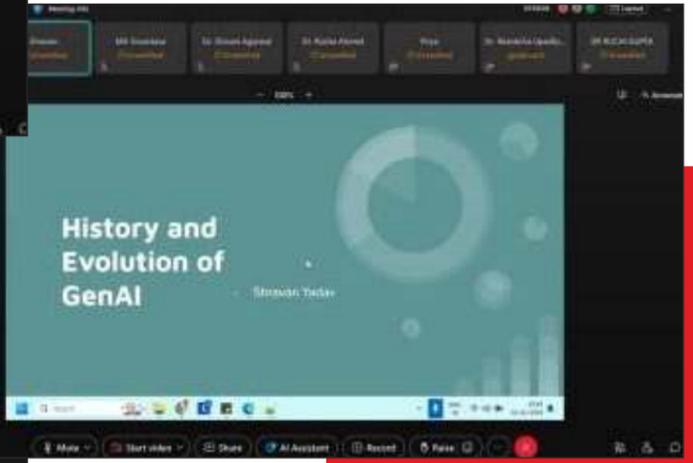
 **TIME**
10:30 AM ONWARDS

 **VENUE**
IT LAB-6

 27th K.M Stone , NH-24, Delhi Hapur Bypass Road , Adhyatmik Nagar, Ghaziabad, Uttar Pradesh 201009



Introduction to Generative AI



PLACEMENT RECORDS

CONGRATULATION



Karan Kulshrestha
B.Tech - CSIT (2021-2025)

Package

40 LPA

Placed in

Confident AI



Abhishek Kumar Srivastava
B.Tech - IT (2020-2024)

Package

13 LPA

Placed in

MatrixAI Hong Kong



Ayush Raghuwanshi
B.Tech - CSIT (2021-2025)

Package

21 LPA

Placed in

Benefi Global Corp



Suhail Ahmad
B.Tech - IT (2021-2025)

Package

40 LPA

Placed in

Benefi Global Corp



Lakshya Verma
B.Tech - IT (2021-2025)

Package

11 LPA

Placed in

**Arrise Solution India
Private Limited**



Nikhil Mishra
B.Tech - IT (2021-2025)

Package

12.43 LPA

Placed in

Euclid

STUDENT CORNER

Centre Of Metaverse

The Incursion event was a full-day immersive experience conducted by the Centre of Metaverse to introduce students and enthusiasts to the fascinating world of augmented reality (AR), virtual reality (VR), mixed reality (MR), and extended reality (XR). Held on May 2nd, 2025, the event drew a total of 150 participants and included a series of interactive sessions, workshops, and a team-based competition.



Google Developer Groups

The Google Developers Groups successfully conducted "PROXIMITY 4.0," its annual recruitment drive to onboard talented second-year students into the club. The recruitment process was designed to identify and select the best candidates through a structured evaluation. After a rigorous selection process, 35 students were chosen as trainees for the Google Developers Group.



Alumni Success Story

Gaurav Bansal's journey began at AKG Engineering College, shaped by classroom learning, late-night project work, and the nervous excitement of campus placements. During one placement interview, when asked where he saw himself five years later, his answer was simple yet ambitious: "On the other side of the table." While it took longer than planned, that vision stayed with him. Starting his career as a young engineer, Gaurav gradually learned that true impact lies in combining technology with business thinking and leadership. This belief guided his growth into a business transformation role in the financial services industry, where he now leads automation and operational excellence initiatives in asset management. Along the way, he strengthened his foundation with an Executive MBA from IIM Bangalore. Today, he mentors teams and encourages students to dream boldly, stay resilient, and trust the journey.

"Timelines may change, but clarity of vision always pays off."



Gaurav Bansal
VP & Head of Intelligent Automation,
HSBC Asset Management



Dr. Sachin Kumar Agrawal
A Global Visionary in AI Innovation

Our institution takes immense pride in the trailblazing achievements of our alumnus, Dr. Sachin Kumar Agrawal, a world-renowned leader in Artificial Intelligence and Generative AI. With an illustrious career spanning over 21 years, Dr. Agrawal currently serves as the Associate Director of the GenAI Center of Excellence at PepsiCo, where he leads the deployment of flagship enterprise products and multimodal intelligence. His journey of excellence includes pivotal leadership roles at Sony Research India, Samsung R&D in South Korea, and Ericsson in Sweden, alongside contributions to the Irish Government Research Program. A prolific innovator with over 50 patents and research papers, he has consistently delivered "industry-first" AI

In every organization, there are individuals whose journeys quietly inspire others leaders who don't seek the spotlight but inevitably become the reason teams succeed.

AKGEC ALUMNI 2002-2006 EE Batch, an Entrepreneurial mindset, Technophile, cleared 2007 SSB Indian-Navy education officer exam, with two decades of professional experience into sales & marketing domain. This month, we shine the spotlight on Varun Sharma, presently serving as National Manager Business Development at LUMINOUS POWER TECHNOLOGIES (A Schneider group Co.), whose story is a masterclass in focus, clarity, and resilience.

Varun approach each situation like a storyteller finding the arc-identifying the problem, shaping the narrative, and guiding the team toward a meaningful outcome. From Challenges to Chapters of Growth, The Leader Who Listens First, A Culture Builder, Not Just a Manager, Looking Ahead: A Leader in the Making What makes Varun's journey compelling is that he is still building it. His next chapter promises larger responsibilities, broader influence, and a deeper role in shaping strategic outcomes



Mr. Varun Sharma
Manager Business Development
LUMINOUS POWER TECHNOLOGIES

We are honored to feature the inspiring journey of **Dhruv Kumar Chaturvedi**, A distinguished alumnus from our Batch of 2006 (Electrical Engineering). Demonstrating excellence early on, Dhruv Kumar Chaturvedi secured a campus placement in his third year, laying the foundation for a remarkable career. Following a competitive selection process, he joined Engineers India Limited (EIL), a premier PSU under the Ministry of Petroleum and Natural Gas. Today, he serves as Assistant General Manager (Engineering) at EIL, where he has become a key figure in designing solutions across the healthcare, mobility, and consumer electronics sectors. Beyond his technical prowess, Dr. Agrawal is a celebrated artist, known for his unique collection of 200+ portraits of Lord Ganesh—a testament to the multidimensional excellence and creative depth we strive to instill in all our graduates



Dhruv Kumar Chaturvedi
Assistant General Manager
EIL



Ishu Bansal
Current Organization: TruckSuvidha
Designation: Founder & CEO

Ishu Bansal, an alumnus of Ajay Kumar Garg Engineering College (AKGEC), batch 2007 - 2011, Information Technology, exemplifies innovation-driven entrepreneurship grounded in strong academic foundations. During his time at AKGEC, he demonstrated academic excellence, actively participated in student societies, and was a founding member of the Software Incubator, experiences that significantly shaped his leadership, problem-solving, and entrepreneurial mindset. Building on this foundation, he went on to establish TruckSuvidha, a digital logistics platform transforming India's unorganized trucking sector through technology-led solutions. As Founder & CEO, he has spearheaded impactful initiatives such as the digital implementation of the Uttarakhand Green Cess system.

Manish Gautam, from the Electronics and Communication batch of 1999-2003, hailed from Banaras and was a vibrant hosteller and student who took charge of the mess menu and fearlessly represented new-hostel concerns to the warden and management for its betterment. He was instrumental in organizing many college events. He became the 5th student of his batch to secure a placement. His career cut a distinct path in energy conservation and carbon-emission reduction with top firms like SHV Energy, Aggreko Energy, Honeywell, and Engie. His last assignment was as Business Head at Ever Source Capital, he hung up his corporate boots and turned entrepreneur in hospitality, building boutique hotels and fine-dining restaurants across Varanasi, Goa, and now expanding into Ayodhya and Rishikesh. Beside hospitality, he has also ventured into agri and fish farming. This year, he is developing his energy sustainability experience into a larger platform for helping people in industrial and commercial segments. He credits his alma mater, AKG, for more than just technical knowledge—college life taught him creativity, people management, and how to handle high-pressure situations, skills that now drive his success on both the energy and hospitality fronts



Manish Kumar Gautam
Entrepreneur

New Programs or Certifications

- Establishment of a dedicated AWS Academy to offer structured training and certifications in cloud computing and related technologies.
- Strategic partnerships with industry and corporate organizations to deliver industry-driven and practice-oriented education.

Development of advanced computing facilities, including a new Apple iMac Laboratory, to support design, development, multimedia, and high-end computing requirements.

- Establishment of a centrally located Physical Learning Hub as a user-centric, one-stop support facility for faculty development, pedagogical innovation, and adoption of new teaching methodologies.
- The future roadmap advances adaptive IT education, staying current with global tech trends, industry demands, and societal priorities while prioritizing quality, innovation, and relevance
- 02 May 2025: Blockchain Technology with Cloud Computing – Mr. Ashwin Saxena, Founder CEO, CybraNeX
- 08 May 2025: Generative AI and Future Tools – Mr. Nitin Kumar Sharma, AI Manager, ICT Academy
- 15 May 2025: AZURE AI & Cloud Computing – Mr. Shailendra Chauhan, Microsoft MVP, Cloud Solution Architect, ScholarHat
- 19 May 2025: A walkover to Cybersecurity – Mr. Omesh Kumar Yadav, Senior Software Engineer, Cloud Infrastructure, Corelight, India
- The department is equipped with well-established laboratories, modern computing infrastructure, licensed software tools, and high-speed internet connectivity. The Centers of Excellence and specialized labs support advanced learning, research, and innovation activities, enabling students to work on real-world problems, interdisciplinary projects, and emerging technologies.

Future Roadmap

The Department of Information Technology at Ajay Kumar Garg Engineering College cultivates creative, competent, and socially responsible graduates ready to advance a sustainable, tech-driven world. Undergraduate IT and CSIT programs align with 12 graduate attributes, building technical expertise, professional skills, ethics, and lifelong learning.

Academic Activities

- Strengthening Educational Quality
- Innovative Teaching–Learning Practices
- Adoption of AI-driven assessment and feedback tools
- Digital Learning Support Systems

Research Goals

- Hosting an International Conference.
- Hosting Faculty Development Programs
- Creation of a research-oriented academic environment for faculty and students
- Motivation and support for faculty members to apply for funded research
- Projects and grants from national and international agencies.
- Promotion of collaborative research culture involving students, faculty, and industry
- new Programs or Certifications
- Establishment of a dedicated AWS Academy to offer structured training and certifications in cloud computing and related technologies.
- Strategic partnerships with industry and corporate organizations to deliver industry-driven and practice-oriented education.

CONTACT US



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