2025 Edition

DEPARTMENT OF COMPUTER SCIENCE



CS Pulse

From Ideas To Algorithm



MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

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MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Chairman's Message



Shri Vishnu Saran
Chairman, MIET

Shri Vishnu Saran, B.E. (Mechanical), Chairman of MIET, has obtained his B.E. (Hons.) degree from NIT Kurukshetra and then served the state of Uttar Pradesh for over 37 years as Director of Boilers. He is a man with an extraordinary perception of a better tomorrow for each student who enters the premises of MIET through the provision of the best possible resources one could ask for. He is a visionary who is carrying on the dream philanthropic project nurtured by his father, the Founder-Chairman of MIET Group, the Late Sri CS Agarwal. He strongly believes and follows the four golden principles for success laid by the honorable Late Smt. Indira Gandhi ji – Foresight, Hard Work, Determination and Discipline.

The strength of MIET indeed lies in his grit & determination, the forceful support by his excellent subordinates, and the overall study orientation through multi-development policies that have distinctly made MIET a name brightening up in progression each year.

Vice-Chairman's Message



Shri Puneet Agarwal Vice-Chairman, MIET

Shri Puncet Agarwal, vice-chairman of the MIET Group of institutions, is a Civil Engineering graduate from one of the prestigious Institutes of Technology, BHU, now known as IIT, BHU. He has done his PGDM from the Indian Institute of Management, Ahmedabad. He holds a rich experience of 24 years with multinational, Indian corporates, PSU, and consultancy firms and also in diverse industries including Power and Power Equipment, Textiles, Retail, Education, and IT. The areas of his strong exposure consist of Sales & Marketing, Engineering Design, Operations, and Corporate Finance. He has shown unalloyed dedication to invigorating the educational progress of students. His vowed mission is to enlighten and vitalize the pedantic capabilities of young minds. Established in the year 1997, the MIET Group has more than 60 acres of land spread across the three campuses encompassing good roads along with many huge trees, nice pedestrian walkways, gardens, etc. in Uttar Pradesh as well as Uttrakhand. Many technical courses are being delivered in all three campuses in affiliation with the state technical universities while non-technical courses have affiliation to the state universities respectively.

Under his leadership, MIET has got B++ accreditation under the latest guidelines of NAAC. Selected courses of MIET have also been accredited by the NBA and others are going in for accreditation after due diligence and immense planning. In academics, the institute has been ranked by reputed agencies in different independent surveys. To augment the delivery capabilities of the Faculty of the MIET Group, the Faculty members are being trained on the latest technologies. A concept of T3 "Train the Trainer" is being followed, where selected faculty members get trained, and then in turn they train other faculty members. A minimum resource pool is being created in each technology and then regular classroom trainings are organized during the semester and breaks, which is followed up with the development and execution of projects on live problem statements collected from industry and society.

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Campus Director's Message



Prof.(Dr.) S.K. Singh
Campus Director, MIET

We, at MIET College strongly believe that the holistic development of students is possible by focusing on core areas which are Concept Based Learning and Comprehensive Industrial Exposure. We offer 360-degree nurturing for overall grooming and developing global competency. We are committed to excellence through innovations in the teaching and learning process and have been successful in maintaining high academic standards by taking appropriate steps to bridge the gap between industry and academia. With the advent of new technologies, it is the responsibility of the academic sector to be upgraded as per the needs of the industry. The requirements and expectations of the industrial sector need to be identified and the grooming of students ought to be done accordingly by the academic institution. Our institution is highly motivated and putting up sincere efforts in this direction. We have developed several state-ofthe-art labs, Centres of Excellence (CoE), and Advanced R&D Labs and have signed a good number of MoUs with different industries at the College and Departmental Levels. Centres of Excellence are corporate training centres for renowned industries. The students are provided with a cohesive platform to work on live industry based projects. We are also engaged in providing hands-on training in the core and IT sectors and are highly motivated to bring the best out of our students. We feel privileged to have world-class infrastructure and meticulous faculty and staff members who are committed to providing comprehensive development of students to groom them into successful engineers and empathetic human beings at large.

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dean Academics Message



Dr. Sanjeev Kumar Singh Dean Academics, MIET

I am delighted to extend my heartfelt congratulations to the Department of Computer Science. This initiative is truly commendable as it reflects the academic vibrancy, creativity, and innovative spirit of both students and faculty. A departmental magazine is not just a collection of writings, but a platform that encourages the exchange of knowledge, technical insights, and creative ideas. It provides students with an opportunity to showcase their talents and build confidence, while also highlighting the achievements of the department. Mechanical Engineering, being a core branch, has always been central to industrial progress and societal growth. I am pleased to see the department continuously motivating students to excel in research, innovation, and professional development. I sincerely appreciate the efforts of the editorial team, faculty mentors, and contributors for bringing out this publication. I hope this magazine will inspire many more students to participate actively and set new benchmarks of excellence. I once again congratulate the Department of Mechanical Engineering for this wonderful accomplishment and wish the magazine continued success in the years to come.

Dean CS/IT Message



Dr. Naresh Kumar
Dean CS/IT, MIET

It gives me great joy to share my thoughts in this edition of our department magazine. Each year, this publication becomes much more than a simple collection of articles it evolves into a vibrant showcase of the passion, creativity, and dedication of our students and faculty. Every contribution you'll find here reflects not just technical knowledge, but curiosity, imagination, and the courage to explore new ideas in the ever changing world of Computer Science and Information Technology. The technological landscape around us is transforming at an incredible pace. Innovations in artificial intelligence, machine learning, cybersecurity, data analytics, and cloud computing are opening new doors and shaping the future in ways we once only imagined. In this dynamic environment, it's essential for young minds to remain open to learning, adaptable to change, and eager to solve real-world problems. I am proud to see how our students are embracing these challenges not only mastering skills but also applying them creatively to make meaningful impact. This magazine is a reflection of that journey. The articles, projects, and stories within these pages highlight the depth of talent and the diversity of thought that thrives in our department. It also represents the spirit of collaboration that defines our community where students, mentors, and faculty work together, inspire one another, and push the boundaries of what's possible. I would like to express my heartfelt gratitude to the editorial team, contributors, and everyone involved in bringing this edition to life.

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

HOD's Message



Ms. Shivani Rohilla
Head Of Department (CS)

In a world where innovation knows no limits, you are the architects of tomorrow the dreamers, the builders, the problem solvers who will shape the future in ways we can't even imagine today. Every line of code you write, every idea you explore, and every challenge you overcome is a step toward building something bigger than yourself. Technology isn't just about computers and algorithms it's about creativity, curiosity, and the courage to bring change to the world around us. The CS department is more than just a place to attend lectures or complete assignments it's a launchpad for your ambitions, a laboratory for ideas, and a close knit family of thinkers, creators, and innovators. Here, every project you work on and every conversation you have is an opportunity to learn, to grow, and to contribute to something meaningful. It's a space where mistakes are stepping stones, experiments are celebrated, and collaboration fuels discovery. As you navigate your journey, remember that success is not just about finding the right answers it's about asking the right questions. It's about pushing beyond comfort zones, challenging conventional thinking, and daring to see the world differently. Embrace the unknown, because that's where the most exciting breakthroughs happen. So, keep pushing boundaries. Keep questioning. Keep creating. Dream boldly and work tirelessly, because the future is not something that just happens — it's something you create. Your journey as a technologist, innovator, and changemaker truly begins here, and the world is waiting for the impact only you can make.

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Faculty Message



Dr. Lalit Kumar
Professor, CS Department

Welcome to the Department of Computer Science at MIET. A dynamic ecosystem where connectivity meets innovation and intelligence converges with infinite possibilities. It is with immense pride and joy that I introduce this edition of CS Pulse, a reflection of our department's continuous commitment to nurturing engineers who not only understand technology but also shape the future through it. In an era defined by rapid digital transformation, our curriculum is thoughtfully designed to blend fundamental computing principles with the latest advancements in computer science, smart systems, edge computing, cybersecurity, and ubiquitous connectivity. We strive to equip our students with the skills and vision needed to bridge the gap between the physical and digital worlds empowering them to create intelligent solutions that transform spaces, enrich experiences, and fuel smarter, more connected ecosystems. This magazine stands as a testament to the creativity, perseverance, and collaborative spirit that define our CS fraternity. Within these pages, you will find a vibrant chronicle of our journey from academic achievements and groundbreaking research to industry collaborations, and impactful student initiatives. Each story reflects the dedication of our faculty, the curiosity of our students, and the shared aspiration to push boundaries in technology. I extend my heartfelt appreciation to the editorial team, contributors, and everyone who played a part in bringing this publication to life. May this edition of CS Pulse inspire you to dream bigger, think deeper, and continue exploring the endless opportunities that lie within the realm of interconnected intelligence.

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Students' Co-ordinator's Message



Mr. Ajay Kumar Ass. Professor, CS Department

As your Student Coordinator, I'm so proud to share this year's CS Pulse with all of you.

Look back at what we've accomplished: the late-night coding sessions that turned into brilliant projects, the electric energy of our hackathons, and the simple, everyday moments of helping each other understand a tough concept. This isn't just a record of events—it's the story of us. It's the proof of how we grew, not just as coders, but as a family.

A huge thank you to every student who brought their energy, to our faculty for their guidance, and to the team who brought these pages to life.

Let's keep building this community together. The next chapter is ours to write.

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

From the Editorial Desk

It is with great pride and heartfelt enthusiasm that we present to you this year's edition of CS Pulse, the annual yearbook magazine of the Department of Computer Science. This magazine is more than a collection of articles and memories — it is a reflection of our shared journey, our accomplishments, our aspirations, and the vibrant spirit that defines our department. Each page of CS Pulse captures the heartbeat of our community the passion to innovate, the curiosity to explore, and the courage to push boundaries. Within these pages, you find stories of remarkable achievements, creative ideas, groundbreaking projects, and the many events and moments that made this year memorable. This edition also stands as a tribute to the teamwork, dedication, and perseverance of our students and faculty, whose combined efforts continue to shape an inspiring environment of learning and growth. We extend our deepest gratitude to everyone who contributed their time, talent, and creativity to bring this magazine to life. As you turn through these pages, we invite you to relive the milestones we've achieved, celebrate the progress we've made, and look forward with optimism to the many possibilities the future holds. Here's to innovation, collaboration, and the unending pulse of technology that drives us forward.

- The Editorial Team, CS Pulse

About the Program

The Computer Science program at MIET is committed to providing a comprehensive and forward-looking education that equips students with the knowledge, skills, and mindset required to thrive in the ever-evolving world of technology. Rooted in strong theoretical foundations and enriched with practical applications, the curriculum is designed to build proficiency in core areas such as programming, data structures, algorithms, operating systems, database management, computer networks, and software development. Beyond the fundamentals, the program emphasizes emerging technologies and cutting-edge domains including artificial intelligence, machine learning, data science, cloud computing, cybersecurity, and web technologies. This balanced approach ensures that students not only understand the principles behind computing systems but can also design, develop, and deploy innovative solutions to real-world problems.

Hands-on learning is a cornerstone of the program. Students engage in laboratory work, collaborative projects, hackathons, and internships that foster creativity, critical thinking, and problem-solving skills. Industry-oriented workshops, expert lectures, and research opportunities further enrich their learning experience, helping them stay aligned with the latest trends and demands of the tech landscape. At MIET, we believe that education goes beyond technical knowledge. Our Computer Science program encourages teamwork, communication, ethics, and leadership—qualities essential for success in a global and multidisciplinary environment. With this holistic approach, we aim to shape graduates who are not only skilled professionals but also lifelong learners, innovators, and responsible digital citizens ready to contribute meaningfully to society and the future of technology

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Vision

To become a premier department producing self-sufficient, skilled, and competent technocrats, fostering innovation and value-based learning, and contributing to society's technological advancement.

Mission

To impart value-based education in computer science, equipping students with the knowledge and skills to become self-reliant professionals and to develop competent individuals who can address the evolving challenges in the global tech landscape.

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Program Eductaional Objectives (PEOs)

- PEO 1: Fundamental Knowledge: Provide students with a strong foundation in computing concepts, programming, and IT skills necessary for problem-solving.
- PEO 2: Practical Application: Enable students to apply theoretical knowledge in real-world computing tasks through hands-on laboratory experiences.
- PEO 3: Technical Proficiency: Develop skills in software development, hardware management, and networking to meet industry standards.
- PEO 4: Lifelong Learning & Innovation: Encourage continuous learning, adaptability to new technologies, and innovative problem-solving approaches.
- PEO 5:Collaboration & Communication: Promote teamwork and effective communication skillsto work on interdisciplinary projects and IT-based solutions.

Program Specific Outcomes (PSOs)

PSO 1: Ability to apply and analyses computational concepts in theareas related to algorithms, machine learning, cloud computing, web designing andweb services.

PSO 2: Ability to apply standard practices and methodologies in software development and project management.

PSO3: Ability to employ fundamental concepts and emerging technologies for innovate research activities, carrier opportunities &zeal for higherstudies.

Program Outcomes (POs)

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Program Outcomes (POs)

- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Departmental Activities

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Orientation Session

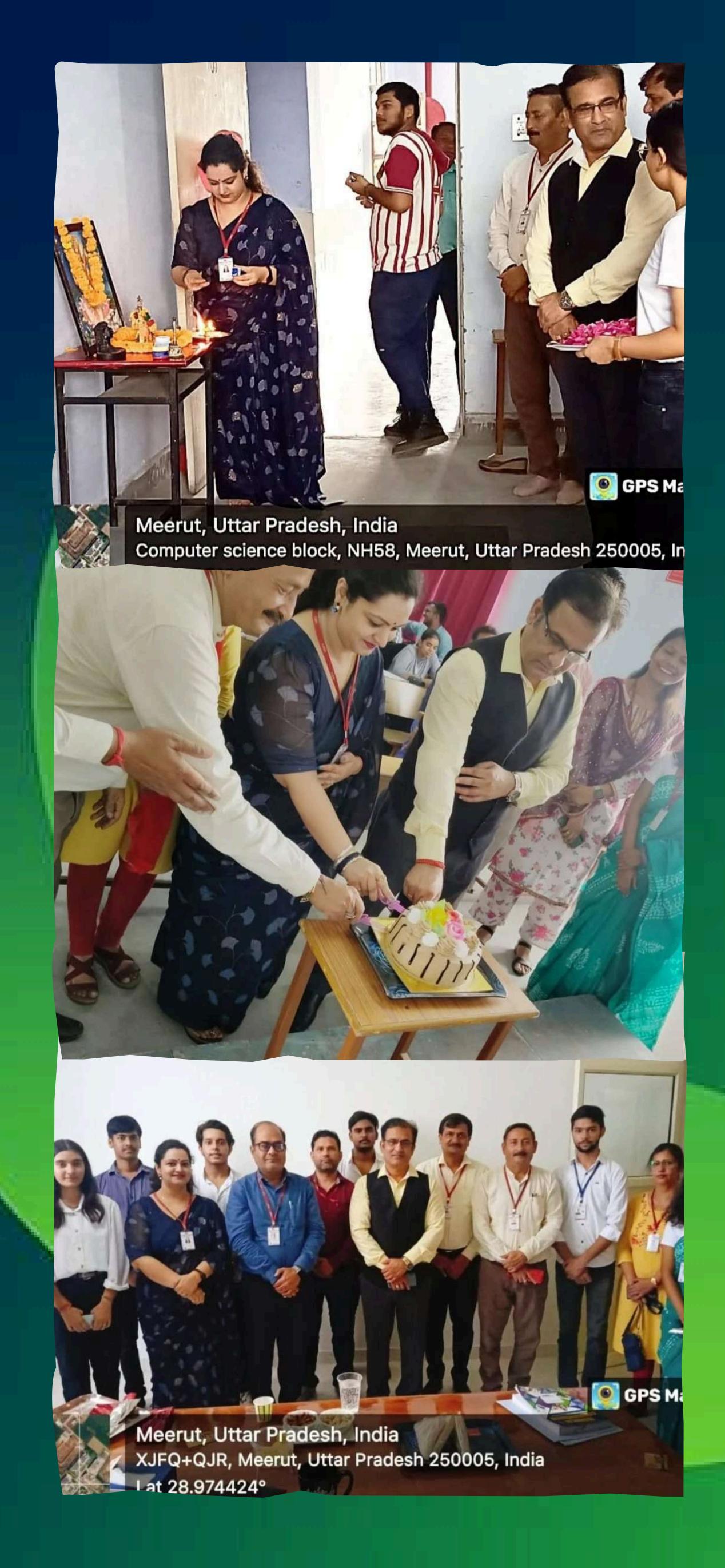


Where curiosity met courage and strangers turned into stories. The Orientation Session wasn't a start it was a vibe, a spark, a promise of what's to come.



MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Teacher's Day Celebration



On this Teacher's Day, we extend our heartfelt gratitude to the mentors who inspire, guide, and shape our journeys with wisdom and dedication. Your influence lights the path toward excellence and purpose.

Children's Day Celebration

Honouring the boundless dreams and vibrant spirit of childhood — Happy Children's Day.





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UI/UX Workshop







An insightful UI/UX workshop was attended by the students of the CS Department, providing valuable knowledge on usercentric design principles. The session was a great step towards building impactful digital solutions.

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International Women's Day Celebration







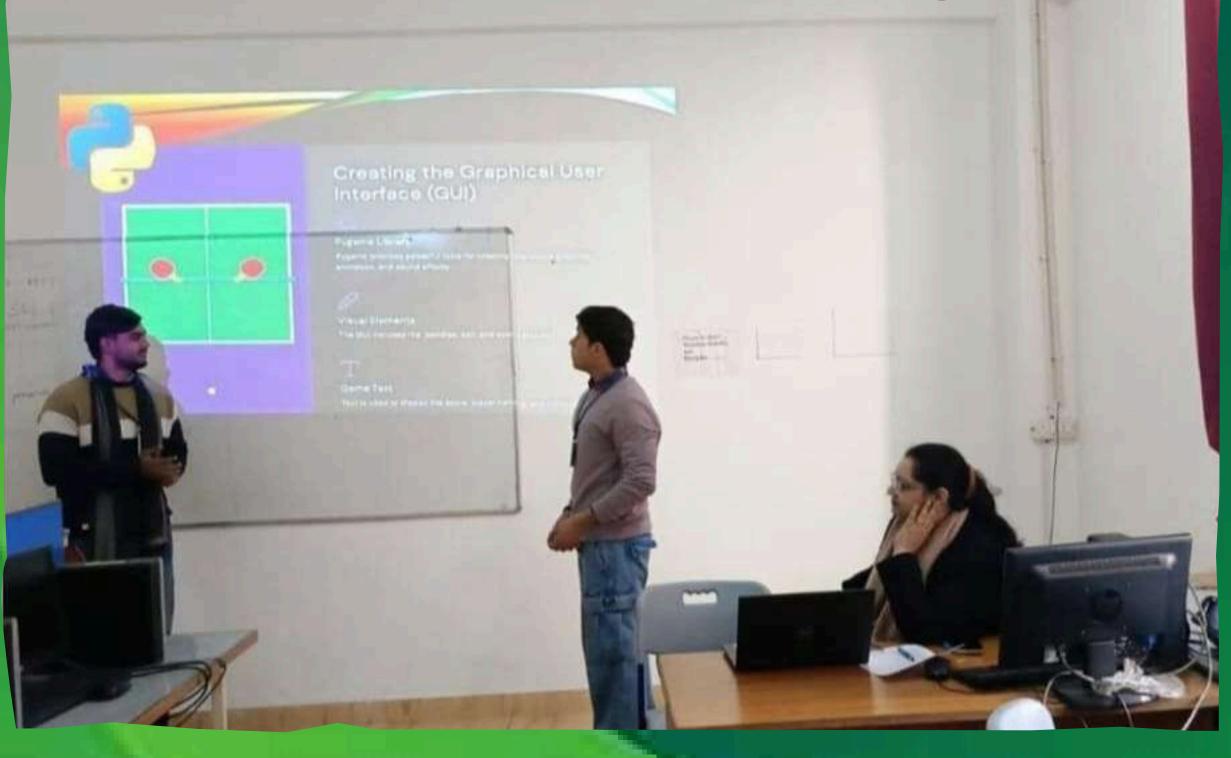
Honoring the incredible women in our lives and our community. Your resilience and achievements inspire us every single day.

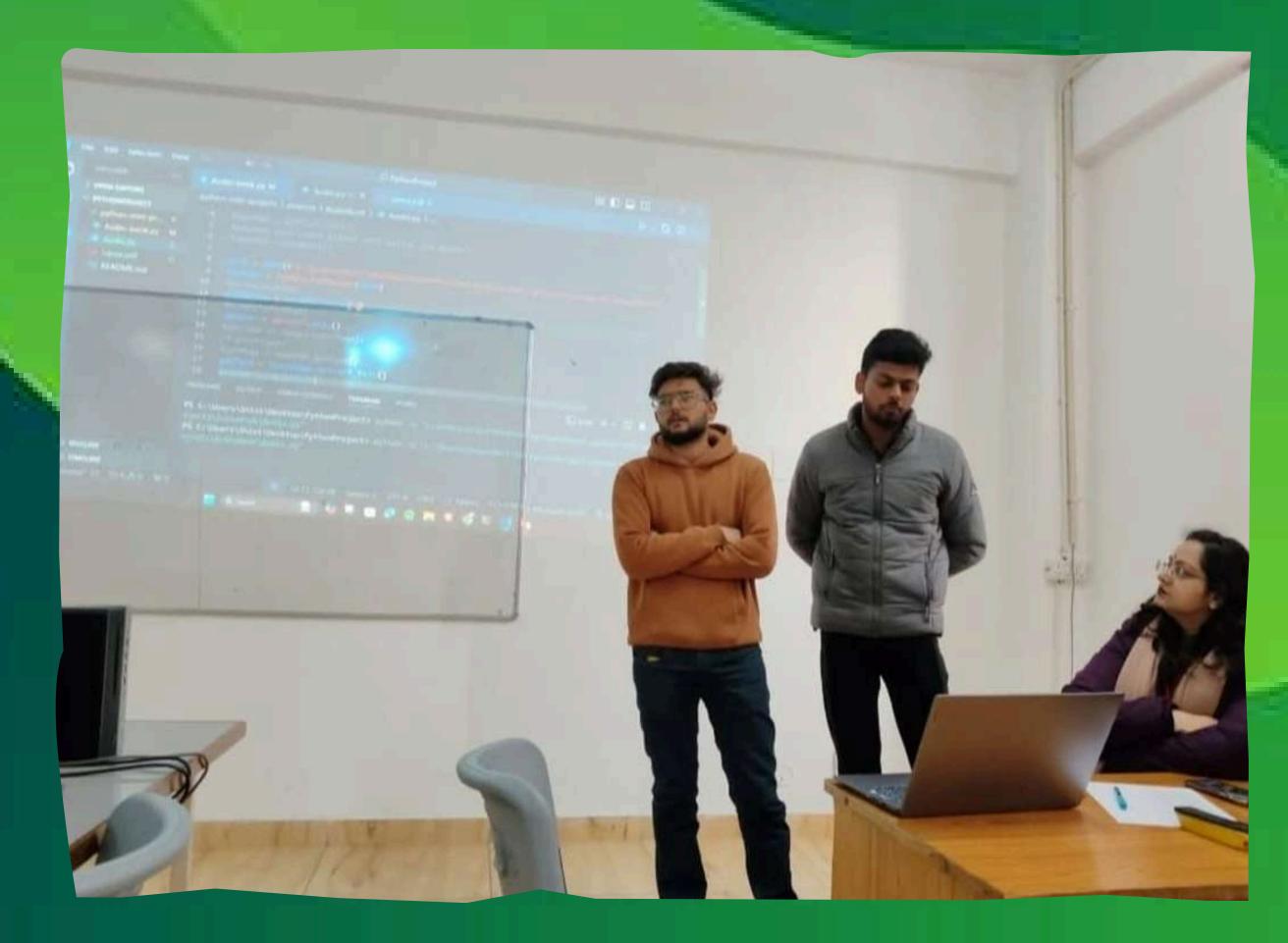
Happy International Women's Day!

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PYWARS: Pyhton Coding Extravaganza



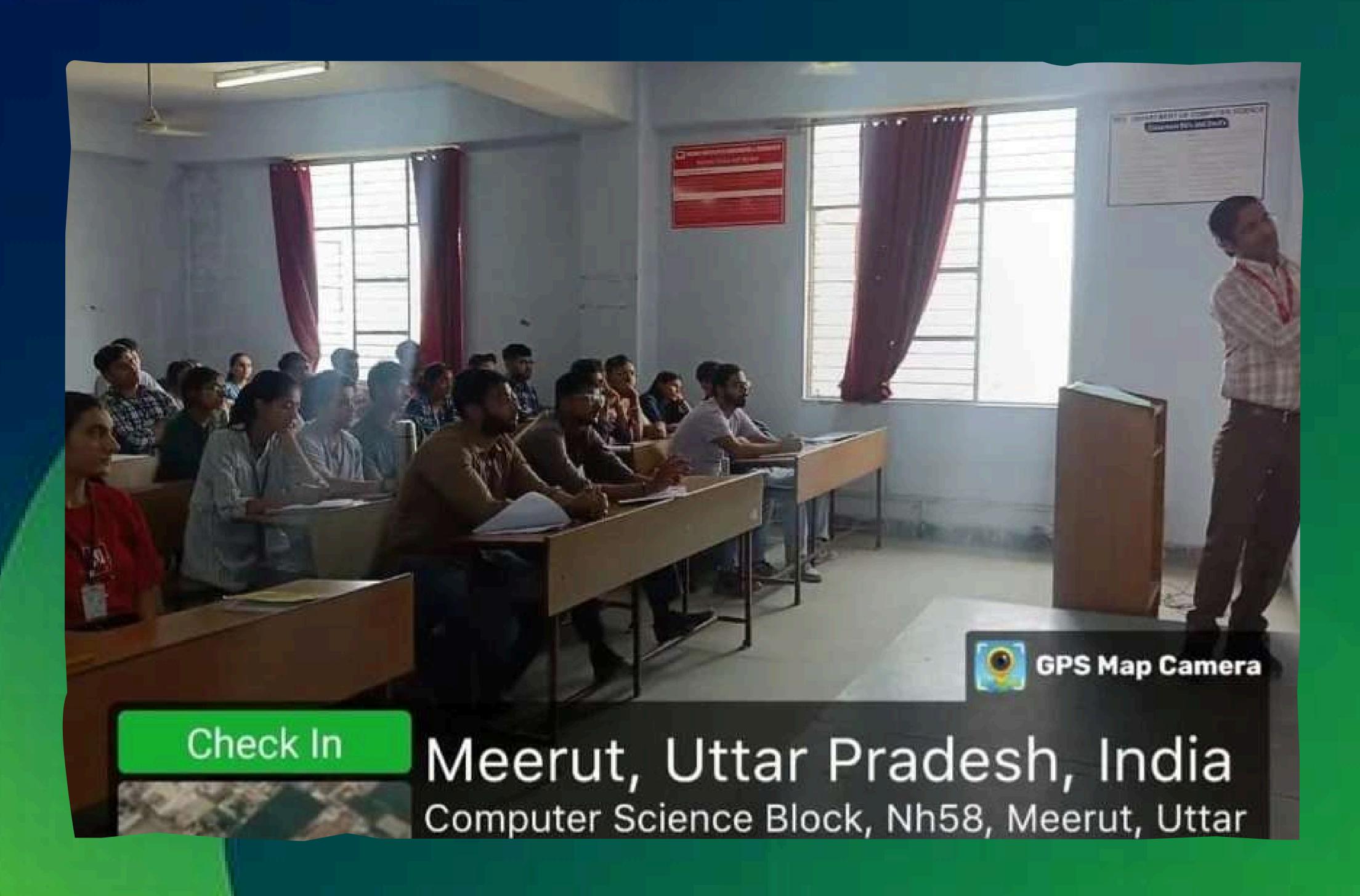




Code. Create.
Conquer. An
electrifying
Python coding
competition that
brought our
coding ideas to
life!

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Awareness Session on Emerging Technologies





Stepping into the future at our emerging tech awareness session!

Gained key insights into AI,

IoT, and blockchain that are shaping our world.

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MoU Signing with ACIC



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Salesforce Hackathon Certificate Distribution



MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

FDP Certificate Distribution





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FDP





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CERTIFICATE

OFPARTICIPATION

This is to certify that

Prof./Dr./Mr./Ms. AJAY KUMAR, MIET MEERUT

has successfully participated in One Week International Faculty Development Program on Recent Research Trends in Computer Science and Information Technology, organized by Department of Computer Science and Engineering,

SSET, Sharda University, Greater Noida, India conducted from 23rd to 27th September 2024.

PROF. (DR.) ANIL KUMAR SAGAR

HOD-CSE

SSET., SHARDA UNIVERSITY

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PROF. (DR.) PARMA NAND
PRO VICE-CHANCELLOR & DEAN
SSET, SHARDA UNIVERSITY

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mr. AJAY KUMAR, Assistant Professor of Meerut Institute of Engineering and Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on The Revolution of Large Language Models (LLMs) in Artificial Intelligence at VIDYA JYOTHI INSTITUTE OF TECHNOLOGY from 18/11/2024 to 23/11/2024.

A Amy

Anusha Ampavathi
Associate Professor Level (AICTE Institute), Coordinator
VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

8

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Faculty's Research Paper

Ajay Kumar: - Crop Yield Production for Smart Farming



Faculty's Certification



CERTIFICATE OF PARTICIPATION

presented to

Dr. Lalit Kumar

for actively participating in

Faculty Enablement Program

conducted from July 7, 2025 to July 11, 2025

Infosys Springboard



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Thirumala Arohi Executive Vice President and Global Head Education, Training & Assessment (ETA) Infosys Limited



CERTIFICATE OF ACHIEVEMENT

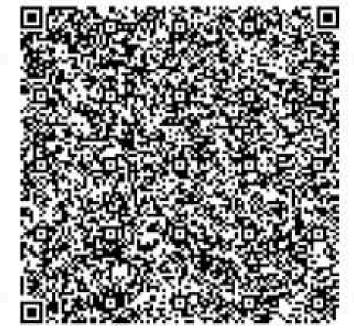
The certificate is awarded to

Dr. Lalit Kumar

for successfully completing

Artificial Intelligence Foundation Certification

on July 10, 2025



Issued on: Thursday, July 10, 2025

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Infosys Springboard

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Sense

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Faculty's Certification



COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Dr. Lalit Kumar

for successfully completing the course

Introduction to Deep Learning

on July 9, 2025



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COURSE COMPLETION CERTIFICATE

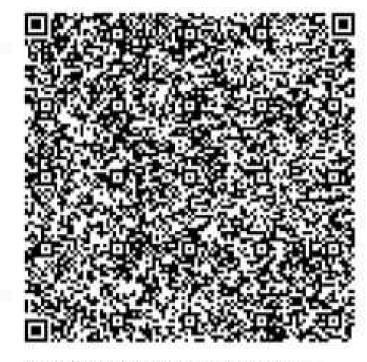
The certificate is awarded to

Dr. Lalit Kumar

for successfully completing the course

Introduction to Robotic Process Automation

on July 9, 2025



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Congratulations! You make us proud!

Lange

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)

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vrinda singh Cybersecurity Analyst Job Simulation

Certificate of Completion August 25th, 2025

Over the period of August 2025, vrinda singh has completed practical tasks in:

Identity and access management (IAM) fundamentals IAM strategy assessment Crafting custom IAM solutions Platform integration



Tom Brunskill CEO, Co-Founder of Forage

Enrolment Verification Code w9DiNpJ7XvrhFdDNJ | User Verification Code d6GDGZPaKpFmYspjb | Issued by Forage



Deloitte.

Anshika malik Technology Job Simulation

Certificate of Completion August 25th, 2025

Over the period of August 2025, Anshika malik has completed practical tasks in:

Coding Development T. M. hang

Tina McCreery Chief Human Resources Officer, Deloitte

Enrolment Verification Code 6eMT9ucsAbMzZHo69 | User Verification Code phWikvak6CZrTL7eK | Issued by Forage



COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Manish Kumar

for successfully completing the course

Introduction to Artificial Intelligence

on June 14, 2025



Congratulations! You make us proud!

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Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited



Issued on: Saturday, June 14, 2025
To verify, scan the QR code at https://verify.onwingspan.com



| | | | | | COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Manish Kumar

for successfully completing the course

Introduction to Natural Language Processing

on June 12, 2025



Congratulations! You make us proud!

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Issued on: Thursday, June 12, 2025
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Student's Message

To the Freshers - From Someone Who's Been There

By: A Proud Senior

Dear Freshers,

You'll soon realize that college is not the movie you imagined. It's better and sometimes worse. You'll meet people who'll stay, and others who'll teach you lessons. You'll learn that marks aren't everything, and that your mental peace is priceless. Participate, explore, fail, laugh, fall, and get up again, Because by the time you're in your final year, you'll miss even the parts you once hated. Trust me, it all becomes a memory worth keeping.

By - Avni Chaudhary (III year, B.Tech CS)

College-The Chapter Called Change By: A Student Who's Still Learning

Change is the only constant in college. Friends come and go, subjects change priorities shift, and so do we. The person who entered the first year isn't the same one who'll leave after graduation. Somewhere between lectures and life lessons, we learn independence, patience, and resilience. And when the final year arrives, we realize-college didn't just educate us: it transformed us.

By - Himanshi Priya (III year, B.Tech CS)

Student's Message

The Unseen Chapters of College Life By: A Student Who's Still Figuring It Out

College isn't just about lectures, notes, and deadlines it's about those unplanned evenings that turn into lifelong memories. It's the last-minute assignment marathons, the unending tea breaks, and the friends who became our second family. Some days we feel unstoppable, and on others, we question everything. But somewhere in this chaos, we grow-silently, beautifully, and at our own pace. College isn't just preparing us for a career, it's shaping us into people who can handle the unpredictable rhythm of life.

By - Lamiya (III year, B.Tech CS)

Small Steps, Big Dreams By: A Dreamer from the Third Year

Every student who steps into college carries a dream some clear, some still blurry. Over time, we realize that dreams don't always need to be huge to be meaningful. Sometimes, it's about showing up, learning one new skill, helping one person, or pushing through one bad day.

The world glorifies success, but growth is quieter. And as long as we keep moving, no matter how slow, we're already closer to the version of ourselves we want to become.

By - Devansh Chaudhary (III year, B.Tech CS)

MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Heartfelt Gratitude

As this edition of CS Pulse comes to an end, we just want to pause for a second to say thank you. Thank you for reading, sharing, writing, designing, editing, or even just flipping through a page with curiosity. Every bit of your energy keeps this magazine alive. Behind every article is a late-night brainstorming session, a coffee-fueled edit, a burst of laughter, and a shared belief that ideas when written and shared can spark something bigger. CS Pulse has always been more than pages and pixels; it's a small corner where creativity meets code, and stories meet logic. So here's to everyone who made this issue possible and to you, for being part of the pulse. Keep learning, keep building, and keep believing that small ideas can create big change.

See you in the next edition!

