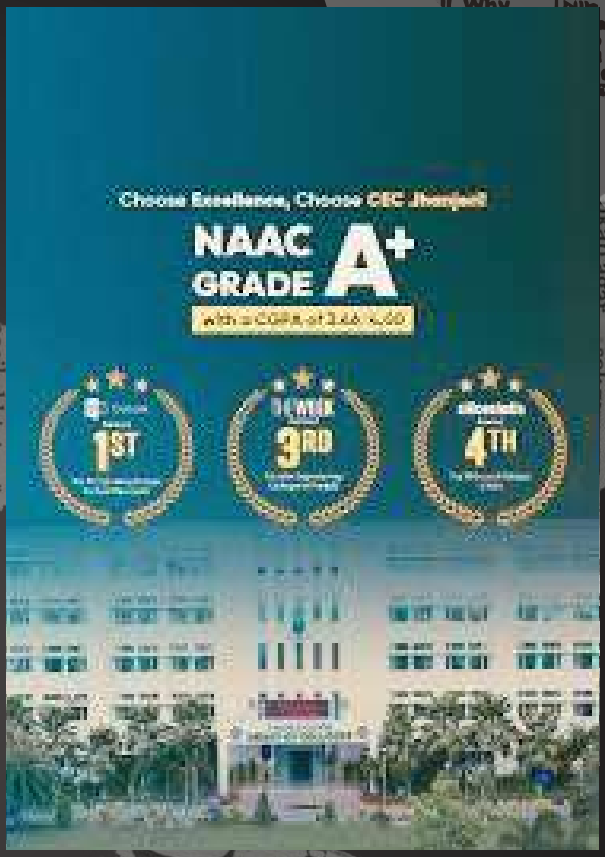
TECH-TIMES

NEWSLETTER

JUL-DEC 2024



CEC Jhanjeri, established in 2012, under the Chandigarh Educational Society stands as a beacon of academic excellence in India, holding the prestigious NAAC A+ accreditation. Renowned for its stellar research and teaching standards, the college boosts a highly skilled faculty and an innovative learning environment. CEC Jhanjeri and its affiliated institutions are administered and operated under the guidance of the Chandigarh Educational Society and promise to deliver quality higher education at affordable fees.

The college's dedication to academic excellence has earned it the esteemed NAAC A+ accreditation with a CGPA of 3.46/4.0, cementing its position as a leading institution in the country. CEC Jhanjeri is committed to academic excellence, affordability, and holistic student development, making it a preferred choice for students nationwide.

S. Rashpal Singh Dhaliwal
Chairman

I extend my warmest greetings as we unveil the latest edition of our newsletter. Crafting our strategic plan has underscored the paramount importance of robust internal communication. Through this newsletter, we aim to spotlight the exceptional achievements of our students and the vibrancy of college activities. We are proud to be a driving force in shaping the careers of our students and providing strength to families and communities. Let this newsletter be a window into the collective dedication and success of CEC.

Mr.Arshdeep Dhaliwal
Managing Director

As we unveil our newsletter, I am excited to observe the realization of dedicated efforts aimed at elevating internal communication. The narratives of collaboration, inclusivity, and significant contributions to the Indian education system stand as proof of our collective dedication. Our faculty and students form the core of our success, and I am eager to showcase their accomplishments in this edition. Here's to a year marked by ongoing growth, innovation, and excellence.

Prof (Dr.) Anish Gupta
Director Engineering

I am deeply honored to be part of an institution committed to academic excellence and holistic development. Our mission is to provide a transformative educational experience that empowers students to excel in their chosen fields while becoming responsible global citizens. At CEC Jhanjeri, we aim to combine rigorous academics with practical, industry-aligned skills, ensuring that our graduates are well-prepared to lead and innovate. We are proud of our journey toward becoming a leading educational institution in the region and remain committed to pushing boundaries to create a brighter future for our students and society.

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Dr. Rini Saxena
HOD CSE

“As the Head of the Department of Computer Science and Engineering, it is both an honor and a privilege to address each one of you. Our journey together in the realm of technology and innovation promises to be transformative, and I am confident that with dedication and passion, we will achieve unparalleled heights. Remember, this department is not just about courses and grades; it's about fostering a mindset of curiosity, resilience, and continuous learning. I urge each of you to embrace every opportunity, challenge assumptions, and strive for excellence in all your endeavors. Your potential is limitless, and I look forward to witnessing your growth, accomplishments, and contributions to the ever-evolving world of Computer Science and Engineering. Let's embark on this journey together, shaping the future and making a difference. Wishing you all success and fulfillment in your academic and professional pursuits.”

VISION

To provide imperative skills to students for meeting industry needs, and to become responsible engineers, entrepreneurs, and citizens.

MISSION

- To educate the students in the field of computer science with ever-changing technologies and skills.
- To enable the students to solve real-time problems and make use of new technologies.
- To have industry collaboration and interaction with professional societies for continuous development.
- To help students in becoming successful entrepreneurs.

Programme Educational Objectives (PEO):

PEO1: To develop ethical computer engineers, administrators, and business leaders, graduates in computer engineering must cultivate a range of skills and leaders.

PEO2: To prepare professionals who assess software requirements and deliver solutions through impactful product designs, innovative thinking, analysis, and decision-making.

PEO3: To empower graduates with lifelong skills in data analysis, design, and synthesis, enabling them to continuously develop innovative products and solutions that meet evolving industrial demands.

PEO4: To foster a mindset for cultivating a professional and ethical demeanor, and adeptly engaging with global challenges, thereby effecting positive impacts on the environment and society.

Program Specific Outcomes (PSO):

Students of Computer Science & Engineering will be able to do:

PSO1: To use principles of Computer Science & Engineering (such as software engineering, computer networks, data structures & computer programming high level languages) for developing software solutions.

PSO2: To clearly understand the concept of programming languages, computer architecture and their applications in different field of technologies to develop cost-effective solutions in the area of computer science by the use of various methodological algorithms and different tools.

Program Outcomes (PO):

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: **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.

PO4: 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.

PO5: **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: **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.

PO7: **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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

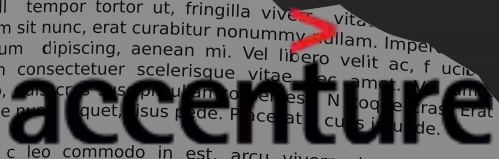
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: 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.

PO12: 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.

OUR TOP RECRUITERS



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INTRODUCTION

Welcome to the latest edition of CEC: NEWS LETTER. As we stand at the cusp of a technological revolution, this newsletter aims to be your compass, guiding you through the intricate labyrinth of advancements, innovations, and groundbreaking discoveries in the realm of Computer Science.

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The technological space is undergoing a profound transformation, reshaping our world and redefining the boundaries of what's possible. Here's a snapshot of the key transitions:

1. **Decentralization Dynamics:** Emerging technologies like blockchain are shifting from centralized control to decentralized networks, empowering individuals and fostering transparency.

2. **Quantum Computing Revolution:** The rise of quantum computing promises unparalleled computational power, paving the way for breakthroughs in fields from cryptography to drug discovery.

3. **The IoT Ecosystem:** The Internet of Things (IoT) creates a hyper-connected environment where devices and systems communicate seamlessly, enabling smarter cities and personalized experiences.

4. **AI's Ubiquitous Influence:** Artificial Intelligence (AI) is permeating diverse sectors, augmenting human capabilities and driving innovation, and raising ethical considerations around privacy and bias.

5. **Sustainable and Ethical Imperatives:** There's a growing emphasis on aligning technological advancements with sustainability goals and ethical principles, fostering a more inclusive and responsible tech ecosystem. In essence, the technological landscape is characterized by rapid advancements and transformative shifts, presenting both opportunities and challenges as we navigate this dynamic era.

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Achievements

Sr. No.	Name of Event	Name of College	Date of Event	Name of student	Roll Number	Awards or Achievement
1	Hackops 24	CEC Jhanjeri	22-23 October 2024	Shivam Pundir	2330777	3rd
2	Hackops 24	CEC Jhanjeri	22-23 October 2024	Tanish Gupta	2330786	3rd
3	Hackops 24	CEC Jhanjeri	22-23 October 2024	Tanish	2330787	3rd
4	Hackops 24	CEC Jhanjeri	22-23 October 2024	Parag Shirivastava	2330753	3rd
5	Decode Apocalypse	Manav Rachna University	17 October 2024	Divya	2129649	1st
6	Decode Apocalypse	Manav Rachna University	17 October 2024	Priya	2129711	1st
7	Hackathon AP 2024	VIT AP University	28-29 September 2024	A S rajan Spolia	2230716	3rd
8	Hackathon AP 2024	VIT AP University	28-29 September 2024	Alok Upadhyay	2230729	3rd
9	Hackathon AP 2024	VIT AP University	28-29 September 2024	Aman Jadon	2230731	3rd

Achievements

Sr. No.	Name of Event	Name of College	Date of Event	Name of student	Roll Number	Awards or Achievement
10	Hackathon AP 2024	VIT AP University	28-29 September 2024	Anikesh Singh	2230736	3rd
11	Hackathon AP 2024	VIT AP University	28-29 September 2024	Garvit	2230767	3rd
12	Hackathon AP 2024	VIT AP University	28-29 September 2024	Hillary Mkandawire	2230778	3rd
13	Xplorica 2.0	ITM RAIPUR	26-28 November 2024	Paojangam Kipgen	2230821	2nd
14	Xplorica 2.0	ITM RAIPUR	26-28 November 2024	Peace Daniel Jele Ozi	2230824	2nd
15	Xplorica 2.0	ITM RAIPUR	26-28 November 2024	Rajan Kumar	2230835	2nd
16	Xplorica 2.0	ITM RAIPUR	26-28 November 2024	Rishabh Awasthi	2230842	2nd
17	Xplorica 2.0	ITM RAIPUR	26-28 November 2024	Ritesh Chauhan	2230846	2nd

2024
FACULTY RESEARCH PUBLICATIONS (BOOK CHAPTERS)

S. No	Name of the Authors	Title of the Paper	Book Name / publisher	Indexing	Publication Year
1	Dr. Ashima Shahi	Navigating compliance for the industrial IoT landscape: Frameworks, security, standards, and key ethical considerations	Industrial Internet of Things Security: Protecting AI-Enabled Engineering Systems in Cloud and Edge Environments	Scopus	2024
2	Dr. Ravneet Kaur	Crowd-sourced-based emergency response on the Internet of Vehicles (IOV)	Artificial Intelligence and Internet of Things based Augmented Trends for Data Driven Systems	SCOPUS / Taylor & Francis	2024

Report on “Workshop: Web 3.0 and Blockchain Technology”

The workshop on "Web 3.0 and Blockchain Technology," conducted by the Department of Computer Science and Engineering in association with IIC CEC Jhanjeri on August 8, 2024, provided students with a comprehensive understanding of the evolution of the web from Web 1.0 to Web 3.0. Expert Mr. Udayveer Singh, Senior Blockchain Trainer at Swap So Edtech, led the session, covering the principles of decentralization, the role of cryptocurrencies, and blockchain architecture, including consensus mechanisms and smart contracts. Students also explored practical applications of blockchain across industries like finance, healthcare, and supply chain management, while addressing challenges such as scalability, regulation, and security. Interactive hands-on sessions enhanced their problem-solving skills, equipping them for careers in fintech, software development, cybersecurity, and related fields.

WORKSHOP OUTCOMES

1. Gain a clear understanding of what automation is and its significance in various industries.
2. Explore real-world examples of automation in different industries, showcasing its impact on efficiency, productivity, and innovation.
3. Engage in hands-on projects to apply automation concepts and build practical skills.
4. Participate in group activities and collaborative learning exercises to foster teamwork and communication skills.

Director- Engineering &
President IIC

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Report on “Industrial Visit at IIT Ropar”

The Department of Computer Science and Engineering organized an industrial visit to iHub-Awadh IIT Ropar, where students explored the applications of Artificial Intelligence (AI) in addressing environmental challenges, particularly through Project Awad. This initiative focuses on studying and conserving bees by utilizing AI to analyze their behavior and health patterns, which is crucial for ecological sustainability. Students were introduced to various AI libraries and tools for data collection and analysis and IoT technologies integrated with AI to monitor bee populations in real-time. The visit provided valuable insights into how AI and IoT can be leveraged in cutting-edge research to protect vital species like bees.

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Industrial Visit Outcomes

1) Learning how to implement AI techniques to track and analyze bee activity, which is crucial for understanding their behavior and ensuring their conservation. This knowledge allows for more effective monitoring and protection of bee populations.

2) Gaining insights into IoT devices, specifically the NRF-52832 module. This device plays a significant role in enabling real-time tracking and data collection, which is essential for integrating AI with IoT in projects.

Pics:

Report on “Innovate with AI: Azure Bootcamp”

Venue: Respective Classes & Labs Date: 20/08/2024-22/08/2024

The Department of Computer Science and Engineering conducted a 3 days Virtual Bootcamp on “Innovate with AI: Azure Bootcamp” on 20th– 22ndAugust. This three-day digital learning experience has been curated to give you the very latest from Microsoft to accelerate your organization's AI journey.

Day 1 -20th August 2024:

Event name: “Start Your AI Transformation with the Microsoft Cloud”

Description: The session offered a comprehensive overview of how AI is reshaping the Microsoft Cloud ecosystem. Attendees gained insights into practical strategies for seamlessly integrating AI into their business workflows. Key topics covered included understanding the benefits and challenges of AI adoption, leveraging Azure and other cloud resources effectively, exploring real-world AI use cases across industries, and discussing best practices for designing, deploying, and managing AI-powered applications.

Event name: “Unlocking the AI Opportunity in Asia”

Description: The session focused on the transformative power of AI within the Microsoft Cloud ecosystem. Attendees gained practical insights into seamlessly integrating AI into their business processes. Key topics covered included understanding regional AI trends specific to Asia, exploring real- world use cases across diverse industries, and optimizing cloud resources effectively for innovation. The event emphasized the role of AI in shaping the future of businesses in the Asian market, fostering growth and competitiveness.

Event name: “How GenAI Is Reshaping Industry: Top AI Use Cases”

Description: The session provided a deep dive into the transformative impact of GenAI (next- generation AI solutions) across various industries. Attendees explored practical strategies for seamlessly integrating AI into their business processes while leveraging cloud resources effectively. Key highlights included real-world use cases demonstrating how AI is reshaping sectors such as healthcare, finance, manufacturing, and logistics. Additionally, discussions centered around GenAI’s potential to drive innovation, enhance efficiency, and elevate decision-making. Overall, the event underscored AI’s pivotal role in revolutionizing industry practices and fostering competitive advantages.

Event name: “Azure Elevate: VMWare Migration Journey”

Description: Migrating virtual machines (VMs) from on-premises VMware environments to the cloud can be a complex endeavor. Organizations face challenges related to compatibility, data transfer, and minimizing downtime during the migration process. In response to these challenges, Azure Migrate emerges as a comprehensive solution. It offers a suite of capabilities designed to assess, plan, and execute VM migrations seamlessly to Microsoft Azure. Organizations evaluate their existing VMs to determine compatibility with Azure. This involves assessing resource utilization and dependencies, which informs migration strategies. After migration, validating VM functionality within Azure is crucial. Additionally, resource configurations are fine-tuned to achieve optimal performance.

Day 2 -21st August 2024: Let’s delve into the Foundations of AI Success event

Event Name: “Picking the Right GenAI Model for the Job”

Description: Key discussions highlighted the importance of aligning AI technology with business goals and ensuring a robust AI infrastructure. Students learned about the crucial aspects of preparing data for AI models, such as curating, cleaning, and optimizing data for smooth transitions from proof-of-concept to production

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The event also covered factors for model selection, including performance metrics, capabilities like natural language understanding and creativity, and the trade-offs between using checkpoints for fine-tuning or LoRAs for broader pre-trained models. Additionally, attendees explored the benefits and challenges of self-hosting open-source models, particularly in privacy-sensitive contexts, considering model size, inference speed, and resource requirements.

Event name: “App Innovation in the Era of AI”

Description: This session focused on innovative app development strategies in the AI era. Attendees explored real-world examples, best practices, and how to infuse AI capabilities into their applications. For students, understanding the impact of AI on app development is crucial. By exploring AI-powered features and learning how to integrate them into their projects, students can prepare for the future of software engineering. These apps analyze user behavior, adapt to preferences, and provide context-aware experiences. Whether it is recommendation engines, virtual assistants, or predictive analytics, AI-infused apps enhance efficiency, engagement, and decision-making.

Day 3 -22nd August 2024

Event name: “AI-Powered Innovation: Building the AI-Designed App”

Description: This session explored how AI can revolutionize app development. Attendees learned about designing and building applications with AI-driven features, enhancing user experiences, and optimizing performance. AI- Powered Innovation has revolutionized various industries, from healthcare to finance.By leveraging machine learning, natural language processing, and computer vision, developers can create intelligent applications that enhance user experiences. These apps analyze data, make predictions, and automate tasks, ultimately improving efficiency and decision-making. As organizations embrace AI, they unlock new possibilities and drive transformative change in their respective domains.”

Event name: “Accelerating Developer Productivity with Your AI Pair Programmer”

Description: Students explored how AI can enhance pair programming. Copilot, an AI-powered assistant, helps with code suggestions, auto-completions, and context-aware recommendations, streamlining development workflows. AI-powered pair programming tools boost productivity by offering intelligent code insights, identifying bugs, and automating repetitive tasks.

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By leveraging AI, developers can write cleaner and more efficient code, reduce debugging time, and stay updated with best practices. These tools assist in selecting optimal data structures, improving readability, and catching syntax errors, allowing developers to focus on creativity and problem-solving, ultimately accelerating software development.

Event name: “Preparing Data for AI Innovation”

The “Building Custom Copilot” event, held at 3:00 PM for AIML Semester 3 students, focused on defining data integration objectives for AI use cases. Attendees identified key challenges AI could address, set success criteria, and evaluated relevant data inputs while anticipating potential hurdles. Stakeholders aligned expectations based on these goals.

During data preparation, participants conducted a data inventory, assessed quality and accessibility, and addressed security concerns, prioritizing critical data sources for seamless AI integration.

The session also explored Microsoft's Copilot stack, introduced in January 2024, which streamlines custom Copilot development using large language models. This technology enables developers to build AI-driven experiences efficiently, leveraging Azure and foundational models to optimize cost and performance. For Teams-based custom Copilots, the Teams Platform provides guidance, making AI development accessible to both beginners and experienced developers.

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Lat 30.680998, Long 76.605528
08/22/2024 10:37 AM GMT+05:30
Note : Captured by GPS Map Camera

GPS Map Camera
Sahibzada Ajit Singh Nagar, Punjab, India
MJJ3+PXH, Sahibzada Ajit Singh Nagar, Punjab 140307, India
Lat 30.681239°
Long 76.6055°
21/08/24 10:44 AM GMT +05:30
Google

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Report on “Workshop: Salesforce Mastery”

Date: August 21, 2024 Time: 1:35 PM - 4:15 PM Venue: Seminar Hall, Block 1

The "Salesforce Mastery Workshop," organized by the Department of Computer Science and Engineering in association with IIC CEC Jhanjeri on August 21, 2024, provided attendees with a comprehensive understanding of Salesforce CRM. Led by expert Jaspreet Kaur Chhabra, the workshop covered core concepts such as data management, workflow automation, and hands-on exercises using Salesforce tools to address real-world business challenges. Participants also received guidance on preparing for the Salesforce Administrator certification exam, including study strategies and practice questions. Additionally, the workshop offered career development insights, highlighting job opportunities and strategies for growth within the Salesforce ecosystem, helping attendees advance in their careers.

Workshop Outcomes:

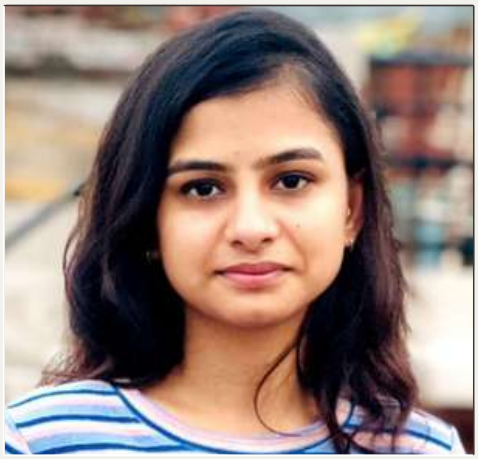
Participants gained a deep understanding of Salesforce CRM fundamentals. They explored data management techniques, learning how to efficiently organize and manipulate data. Additionally, workflow automation was covered, empowering attendees to streamline processes. Through interactive sessions, participants engaged with Salesforce tools in real-world scenarios. This practical experience allowed them to apply their knowledge and build confidence. The workshop provided expert guidance for preparing effectively for the Salesforce Administrator certification exam. Attendees learned exam strategies and practiced with relevant questions. Beyond technical skills, the workshop addressed career development within the Salesforce ecosystem. Attendees explored job opportunities, networking, and strategies for career growth.

CSE NEWSLETTER

Director Engineering & President IIC

“It gives me immense pleasure to pen down a few words for this edition of our esteemed Newsletter. As we navigate through the fast-paced world of engineering and innovation, it's crucial to recognize and celebrate the incredible efforts, ideas, and accomplishments that shape our community. The convergence of technology and creativity at our institution has always been a driving force, propelling us forward into uncharted territories of knowledge and discovery. This magazine stands as a testament to the dedication, passion, and vision of our students, faculty, and staff, who continuously strive to redefine boundaries and challenge the status quo.”

SUCCESS SUMMITS



SIMRAN

COMPANY - AUTODESK

PACKAGE - 37LPA

COMPANY - SIHR

PACKAGE - 15LPA

CHARU

KASHISH KAUR JOHAR

COMPANY - SIHR

PACKAGE - 15LPA

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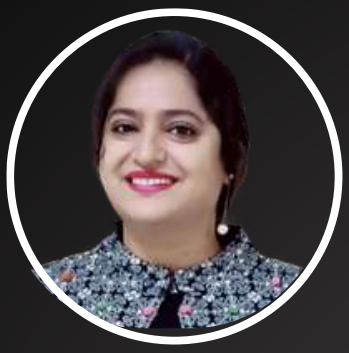
CREATIVE DESK

FACULTY ADVISOR



Ms. Amrita Singh
(Assistant Professor, CSE)

Ms. Rohini Sharma
(Assistant Professor, CSE)

STUDENT EDITORIAL TEAM

Satyander Kaushik (CSE)

Nishtha Jain (CSE)

North India's Fastest Growing Educational Institute is Now

NAAC GRADE A+

Accredited in First Cycle with CGPA of 3.46/4.0