

NEWSLETTER & MAGAZINE

# DIGITAL THREADS

Volume 3 (July 2023)



## ABOUT US

Jai Narain College of Technology (JNCT), Bhopal, blends Indian values with global education standards, fostering innovation and technical excellence. With strong industry ties, JNCT prepares students to tackle modern engineering challenges and lead in the tech-driven world.

## HOD MESSAGE

The CSE Department at JNCT offers B.Tech and M.Tech programs, focusing on core computing subjects like Data Structures, Algorithms, Operating Systems, Computer Networks, and Database Management Systems to equip students for successful careers.

## CSE DEPARTMENT

The CSE Department is committed to innovation, skill development, and industry readiness. With quality education and hands-on learning, we empower students to excel in the evolving tech landscape. Keep learning, stay curious, and shape the future of technology!

# Vision & Mission of Department

## Vision

**To cultivate proficient computer professionals capable of addressing the diverse technical challenges across industry, research, and academia, all while maintaining a strong commitment to serving humanity and our nation.**



## Mission 1

Our mission is to provide quality education that empowers students for successful careers, foster core competencies through research, and enhance learning via conferences, seminars, and hands-on training. We aim to instill self-motivation, responsibility, and strong ethical values in our students.

## Mission 2

To nurture skilled computer professionals who can tackle diverse technical challenges in industry, research, and academia, while upholding a strong commitment to serving humanity and the nation.



## Mission 3

We are committed to excellence in science and technology education by providing state-of-the-art infrastructure and high-quality learning. Our goal is to produce world-class engineers and future leaders who contribute to the nation and the global community.

# PEOs AND PSOs Of Department

## Program Educational Objectives (PEOs)

**PEO-1.** Equip graduates with the ability to apply their knowledge of computer science and engineering to analyze, design, and develop software solutions.

**PEO-2.** Prepare graduates for employment opportunities in diverse sectors, including the software industry, academia, public and private sectors, as well as higher education and entrepreneurship.

**PEO-3.** Enable graduates to utilize the latest skills, techniques, and engineering tools to effectively address computer science and engineering challenges within industrial, social, and environmental contexts.

**PEO-4.** Cultivate professionalism, ethical values, effective communication skills (both written and oral), and teamwork abilities while fostering a strong sense of social responsibility.

## Program Specific Outcomes (PSOs)

**PSO-1.** Proficiency in foundational areas such as Data Structures, Database Management Systems, Software Engineering, Computer Networking, and Operating Systems.

**PSO-2.** The ability to design and develop software projects utilizing principles of computer science and open-source software tools.

**PSO-3.** Application of theoretical and modern computer science knowledge to problem-solving in domains such as web and mobile application development, database management systems, and network security.

**PSO-4.** Utilization of acquired learning and knowledge to enhance personal development and contribute positively as responsible citizens.

# Tech Trends & Future Scope

## Generative AI Takes Over

The first half of 2023 marked the rapid evolution of Generative AI, revolutionizing industries from software development to content creation. Following the success of ChatGPT, OpenAI launched GPT-4 in March 2023, bringing enhanced reasoning, creativity, and multimodal capabilities.

Tech giants like Google, Microsoft, and Meta integrated AI into their products, boosting automation, coding assistance, and real-time data processing. AI-powered tools such as Google Bard and Microsoft 365 Copilot reshaped workflows, increasing efficiency across domains.

As AI adoption accelerated, the future hinted at stronger AI-human collaboration, reshaping education, business, and innovation at an unprecedented pace



# Student Result Analysis

## III Semester

1.	Enrollment No 0131CS211110	Student Name SHRUTI RAJ	CGPA 9.24
2.	0131CS211109	SHREYA RAJ	8.66

## V Semester

1.	Enrollment No 0131CS201050	Student Name HIRDHYA VOHRA	CGPA 9.15
2.	0131CS201107	SHIVANI TIWARI	9.11

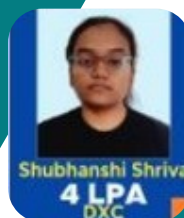
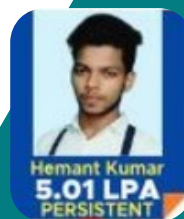
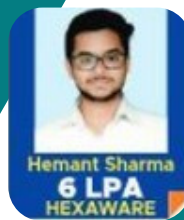
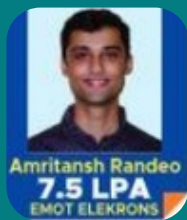
## VII Semester

1.	Enrollment No 0131CS191006	Student Name ADNAN KHAN	CGPA 9.33
2.	0131CS191009	AMAN PANDEY	9.15



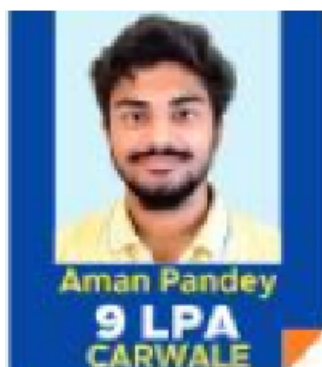
# Campus Record & Placement Highlights

## JNCT PLACEMENTS 2023



To nurture skilled computer professionals who can tackle diverse technical challenges in industry, research, and academia, while upholding a strong commitment to serving humanity and the nation.

### Star Achiever and Top Recruiters



# Department Events & Workshops

## Engineers Day

Celebrated in honor of Sir M. Visvesvaraya, Engineer's Day recognizes the contributions of engineers in shaping the world. JNCT marked the occasion with technical events, expert talks, and innovation showcases, inspiring students to embrace creativity and problem-solving in engineering.



## Python Workshop



A hands-on workshop on Python programming, covering fundamentals, data structures, algorithms, and real-world applications. Students gained practical coding experience, enhancing their problem-solving skills and understanding of software development and automation.

## Industrial Visit (MSME)



This tour provided students with insights into startup incubation, entrepreneurship, and tech innovation, helping them explore the journey from idea to product development.

The CSE department organizes seminars, workshops, hackathons, and tech fests to enhance learning beyond the classroom. These events provide hands-on experience, industry exposure, and opportunities to interact with experts, keeping students updated with the latest advancements in computer science and engineering.

# The Creative Hub

## INNOVATION IN HEALTH CARE FOR HOME CARE



“INNOVATION IN HEALTH CARE FOR HOME CARE” an Interactive Session was conducted by Lt Col Malay Sankar Pal (Retd), Veteran of Kargil War, Director, KNOCK A DOC along with Karan Sehgal, Director Operations MP, KNOCK A DOC.

## National Service Scheme

The main objective of the program was to make newly admitted volunteers familiar with the objective of the NSS: “Personality development of Students through Social Service”.



## Cleanliness Campaign



A cleanliness awareness drive promoting hygiene, sustainability, and environmental responsibility. Students and faculty participated in clean-up activities, awareness campaigns, and eco-friendly initiatives, fostering a cleaner and greener campus.

## JNCT CONCLAVE

**INNOVATION, INDUSTRY, AND INSTITUTIONS  
RESILIENCE TOWARDS STARTUP AND  
ENTREPRENEURS.** In the end, participatory panel discussion was conducted, in which students queries were answered by the penalists.



Beyond academics, this section highlights extracurricular activities, cultural events, sports achievements, and student club initiatives. It showcases the all-round development of students, encouraging creativity, teamwork, and leadership beyond the classroom.



# Faculty Achievement

**Prof. Kalapna Mishra, Department of Computer Science and Engineering**

- **Faculty Development Program (FDP) on Soft Skills** Attended a 3-day FDP on Soft Skills from 9th to 11th February 2023.
- **Jointly organized by:** St. Paul Institute of Professional Studies, Indore (MP) Research Foundation of India (RFI) & RFI CARE.
- **Focused on communication, leadership, and professional growth** Research Publication in International Journal of Engineering Science and Innovation Technology
- **Title:** Multi-Model Image Fusion for Medical Image Enhancement Volume 12, Published in 2023.
- **Research focuses on enhancing medical images for better diagnosis using multi-model image fusion.**

## Student's Corner

### "The First Hackathon"

It was my first hackathon.

I still remember walking into the hall, laptop in hand, heart racing faster than my code editor.

The theme was "Tech for Good," and honestly, I had no idea where to begin.

But then, something clicked.

I remembered what our professor said — "Don't wait for perfect ideas. Start small. Build fast."

We brainstormed, coded all night, fought over bugs, and finally presented a working app.

We didn't win first prize — but I walked out with something more precious: confidence.

That night taught me —

"Coding isn't just about skills. It's about belief — in your ideas and in yourself."



**"Where Code Meets Dreams | जहाँ कोड और सपने मिलते हैं"**



**JNCT**  
LNCT Group of Colleges

**LNCT<sup>SM</sup>**  
GROUP OF COLLEGES  
"WORKING TOWARDS BEING THE BEST"



# Contributors of Digital Threads

## Message for the Next Session

Dear Students, As we step into a new session, let's strive for excellence, explore new ideas, and push the boundaries of innovation. This year is an opportunity to enhance your skills, engage in research, and gain industry insights. Stay curious, take on challenges, and make every effort count. Together, let

Best wishes,  
Department of Computer Science & Engineering  
JNCT, Bhopal

Chief Editor  
Dr. Vivek Dubey  
  
Editor  
Dr. Ayonija Pathre

Principal  
Dr. N. P. Singh  
  
Dean Academic  
Dr. B. L. Rai

Faculty Coordinator  
Prof. Ravinder Tanwar  
Prof. Pushendra Kumar

Contact us : 7440777555 , 8878781752 , 8878781753

Address : New Chouksey Nagar, Lambakheda,  
Bairasia Road, Bhopal-462038



[contact@jnctbhopal.ac.in](mailto:contact@jnctbhopal.ac.in),  
[info@jnctbhopal.ac.in](mailto:info@jnctbhopal.ac.in)