NEWSLETTER & MAGAZINE

# DIGITAL THREADS

## Volume 5 (July 2024)

## ⓘ ABOUT US

**Jai Narain College of Technology (JNCT), Bhopal, blends Indian ethos with modern engineering education. While rooted in tradition, it embraces globalization, preparing students to tackle emerging challenges. Through strong industry ties, JNCT equips future leaders with technical expertise for a dynamic world.**

## HOD MESSAGE

**The CSE Department is dedicated to fostering innovation, technical excellence, and industry readiness. Through quality education, hands-on learning, and research, we empower students to tackle real-world challenges. I encourage you all to stay curious, embrace new technologies, and keep evolving. Let's shape the future of technology together!**

## CSE DEPARTMENT

**The CSE Department at JNCT, Bhopal, offers B.Tech and M.Tech programs focused on core subjects like Data Structures, Algorithms, Operating Systems, Computer Networks, and Database Management Systems, preparing students for dynamic tech careers.**

# 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

**Gemini AI: The Next Leap in AI-Powered Assistance** In February 2024, Google revolutionized the AI landscape with the launch of Gemini AI, an advanced multimodal AI model designed to enhance human-computer interactions. Developed by Google DeepMind, Gemini AI offers superior reasoning, code generation, and real-time assistance, making it a powerful tool for developers, businesses, and researchers. With its deep understanding of text, images, audio, and video, Gemini AI improves productivity by assisting in tasks like content creation, software development, and data analysis. Its seamless integration into Google Search, Workspace, and Android devices makes AI more accessible and practical for everyday use. As AI continues to evolve, Gemini AI represents a major milestone in AI-driven automation, bridging the gap between human creativity and machine intelligence, and shaping the future of smart technology.

# Student Result Analysis

## III Semester

| | Enrollment No | Student Name | CGPA |
|---|---|---|---|
| 1. | 0131CS221168 | SAKSHI GUPTA | 8.23 |
| 2. | 0131CS221057 | BITTU KUMAR | 8.21 |

## V Semester

| | Enrollment No | Student Name | CGPA |
|---|---|---|---|
| 1. | 0131CS211110 | SHRUTI RAJ | 9.20 |
| 2. | 0131CS211079 | POONAM | 8.40 |

## VII Semester

| | Enrollment No | Student Name | CGPA |
|---|---|---|---|
| 1. | 0131CS201107 | SHIVANI TIWARI | 9.04 |
| 2. | 0131CS201050 | HIRDHYA VOHRA | 9.02 |

# Campus Record & Placement Highlights

## JNCT PLACEMENTS 2024
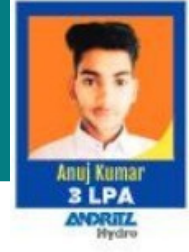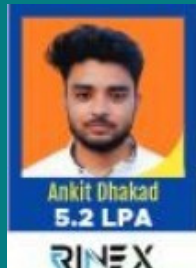
Praveen Chouhan
5.35 LPA
pwc

Ankit Dhakad
5.2 LPA
RINEX

Shreyan Raj
5.2 LPA
RINEX

Sadhana Kumari
4.25 LPA
Capgemini

Tanya Ray
4.25 LPA
Capgemini

Ishaan Jaiswal
4 LPA
cognizant

Amrit Kashyap
4 LPA
cognizant

Rohan Anand
4 LPA
cognizant

Vishal Kushwaha
3 LPA
DBG

Shriram Tiwari
3 LPA
DBG

Aryan Jaiswal
3 LPA
HKRP

Anuj Kumar
3 LPA
ANDRITZ
Hydro

**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

Gaurav Sharma
5.5 LPA
Micron

### OUR BULK RECRUITERS

amazon

cognizant

Persistent

accenture

CISCO

pwc

adani

Mindtree

tcs TATA CONSULTANCY SERVICES

BYJU'S The Learning App

Infosys

Capgemini

quantiphi

wipro

DXC.technology

HEXAWARE
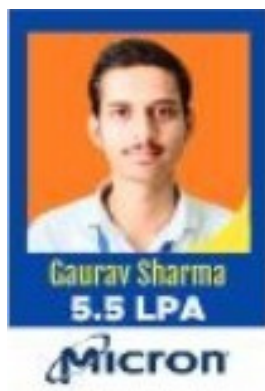
# Department Events & Workshops

## Internship Program



4-Day In-House Internship Program (July 8–12, 2024): JNCT conducted a comprehensive internship program for first- year students, focusing on core computer science topics. The sessions included: Day 1: Introduction to Algorithms Day 2: Introduction to Data Structures Day 3: Engineer to Entrepreneur: A Career Journey Day 4: Introduction to Software Engineering & Database Management System (DBMS)

## NPTEL Awareness Workshop



JNCT hosted an NPTEL Awareness Workshop to inform students about the National Programme on Technology Enhanced Learning (NPTEL) and its benefits. The workshop emphasized the importance of online learning platforms in supplementing traditional education.

## Venture Voyage Competition



In August 2024, Jai Narain College of Technology (JNCT) in Bhopal, Madhya Pradesh, hosted the Venture Voyage Competition, a significant event designed to foster innovation and entrepreneurial spirit among students. This competition provided a platform for students to present their innovative ideas and solutions, encouraging creativity and practical application of their knowledge.

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

## DJ Night



DJ Night at Jai Narain College of Technology (JNCT) was a high-energy event filled with music, dance, and excitement. The night featured electrifying performances by professional DJs, setting the perfect vibe for students and faculty to hit the dance floor. With dazzling light shows and a lively atmosphere, the event brought everyone together for an unforgettable evening of fun.

## Earth Day Celebration

Celebrated on April 22, World Earth Day promotes environmental awareness and action. It encourages sustainability, conservation, and pollution reduction through initiatives like tree plantations and clean-up drives.



## Kite Flying Competition



The Kite Flying Competition is a fun-filled event promoting team spirit, skill, and cultural celebration. Participants showcase their creativity and expertise in kite flying, making the sky vibrant with colorful kites. The event fosters joy, sportsmanship, and tradition.

## E - Sports

The E-Sports Competition brings gaming enthusiasts together for an intense battle of skill, strategy, and teamwork. Players compete in popular games, showcasing quick reflexes, problem-solving, and tactical gameplay.



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. Brij Mohan Sharma , Department of Computer Science and Engineering**

- Faculty Development & Training One-Week Online Teachers' Training Program(July 1-5, 2024) Topic: Recent Trends in Machine Intelligence and Quantum Computing for Industry Organized by Amity University, Gwalior in collaboration with the Department of Computer Science & Engineering, Amity School of Engineering and Technology. Focused on cutting-
- edge AI methodologies, quantum computing principles, and their industrial applications Research & Publications Conference Paper Presentation (May 29, 2024). Published in
- International Conference on Applied Technologies Title: Generic Framework of New Era Artificial Intelligence and Its Applications. Explores the integration of AI across various
- industries, highlighting its impact on automation, data-driven decision-making, and future innovations.

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

- Research & Publications Conference Presentation (Springer 2024): Presented a research paper titled "Warning Message Broadcasting through RSU for Real Road Map Profile in VANET"

# Student's Corner

## "कोडर का सपना"
कोड की दुनिया में, सपने बुनते हैं,
हर एरर में भी, उम्मीद ढूँढते हैं।
कभी हारते नहीं, कभी थकते नहीं,
हम हैं वो कोडर्स, जो भविष्य रचते हैं।

### ~ CSE  Student



**"Behind every great app, there's a CSE student who once stayed up all night."**

# Contributors of Digital Threads

**Message for the Next Session**

Dear Students, A new session is a fresh start—an opportunity to learn, innovate, and excel. Stay curious, embrace challenges, and push yourself beyond limits. Participate actively, seek knowledge, and turn ideas into reality. Let's work together to make this year a journey of growth, creativity, and success!

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

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