



Magazine

January - March 2025



INSPERIA



INSPERIA



“INSPERIA”



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LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA)

Bhopal



LNCT GROUP OF COLLEGES

THIRTEENTH EDITION



OBJECTIVE

The main objective is to make students technically talented in the information technology field. The department has tied up with Coursera (spoken tutorial project) which offers certificate courses to help the students to gain exposure towards leading its tools and languages which is part of the curriculum to earn credits. The students are advised to enroll for online MOOC courses to gain knowledge and upgrade their skills for employment.

VISION

To be a premier institute where globally competent computer professionals, innovators, and entrepreneurs are evolved with patriotism and nurtured ethical values.

MISSION

- ❖ To offer high-grade, value-based Post-graduate Programmed in the field of Computer Applications.
- ❖ To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
- ❖ To provide conducive environment to achieve excellence in teaching-learning, and research & development activities.
- ❖ To incorporate IT professionals and skilled based courses beyond curriculum to create more employable post-graduates.
- ❖ To provide appropriate forums to develop innovative talents, practice ethical values and inculcate as enduring learners.

Blessings from the Desk of HOD LNCT University

Chief Patron

Shri. J.N. Chouksey

Patrons

Ms. Poonam Chouksey

Dr. Anupam Chouksey

Director,

Administration

Dr. Ashok Kumar Rai

Director, LNCT-MCA

Prof. (Dr.) Sanjay Bajpai

Chief Editor

Dr. Virendra Kumar

Tiwari

Editor

Dr. Neelu Singh

Advisory Board

Dr. Neelu Singh

Prof. Dipanshu Jha

Prof. Seema Joshi

Building Success through Discipline and Consistent Effort

Discipline and hard work are two fundamental qualities that lead individuals toward success in both academic and professional life. They help in building strong character, developing responsibility, and maintaining focus on long-term goals. In the field of education, discipline plays an important role in guiding students to follow rules, manage their time effectively, and maintain a consistent study routine. A disciplined approach helps students stay organized, avoid distractions, and remain committed to their learning process.



Dr. Alka Gulati
Professor & Head SOCST
LNCT University,
Bhopal

Hard work is the driving force that transforms aspirations into achievements. Success does not come easily; it requires continuous effort, determination, and perseverance. Students who work hard are more likely to develop a deeper understanding of subjects, improve their skills, and perform better in their academic and professional pursuits. Hard work also teaches the value of patience and persistence in overcoming challenges.

When discipline and hard work are combined, they create a powerful pathway to success. Discipline provides direction and structure, while hard work ensures progress and improvement. Together, these qualities help students achieve their goals and prepare them to face the challenges of the competitive world with confidence and determination.

In essence, discipline and hard work are the cornerstones of success in every sphere of life. They help individuals remain focused, overcome obstacles, and steadily progress toward their goals. Students who cultivate these qualities develop resilience, confidence, and a strong sense of responsibility. By practicing discipline and putting in sincere efforts, they not only achieve academic excellence but also prepare themselves to become capable professionals and responsible citizens who contribute positively to society and national development.

"Dream big, work hard, and never stop learning."

Artificial Intelligence and its Impact on Society

Artificial Intelligence (AI) has emerged as one of the most influential technologies of the modern era. It refers to computer systems designed to perform tasks that typically require human intelligence such as learning, reasoning, problem solving, and decision making. The integration of AI into different sectors of society has transformed the way organizations operate and how people interact with technology.

In the field of education, AI has significantly improved the learning environment. Intelligent learning systems can analyze student performance and provide personalized recommendations for study materials. This helps learners understand complex concepts more effectively and allows educators to track academic progress in a systematic manner.



Dr. Neelu Singh
Associate Professor
LNCT (MCA), Bhopal

Artificial Intelligence and Its Impact on Society



Artificial Intelligence (AI) has become one of the most important technological developments in modern society. It refers to the ability of machines and computer systems to perform tasks that normally require human intelligence, such as learning, reasoning, and decision making.



Education

AI provides personalized learning experiences and helps teachers evaluate student progress.



Healthcare

AI aids in disease diagnosis, medical imaging, and patient monitoring.



Business

AI improves customer service, data analysis, and decision-making.

However, the increasing use of AI raises concerns about job displacement, data privacy, and ethics. In conclusion, AI can enhance productivity and benefit society if used responsibly.

AI technologies also play a vital role in healthcare. Medical professionals use AI-based tools to analyze medical images, detect diseases at an early stage, and monitor patient health. These technologies assist doctors in making accurate diagnoses and improving treatment outcomes. As a result, healthcare services are becoming more efficient and accessible.

In the business sector, AI helps organizations analyze large volumes of data and support decision-making processes. Companies use AI-driven chatbots, recommendation systems, and predictive analytics to understand customer behavior and improve service quality. These innovations enhance productivity and create new opportunities for economic growth.

Despite its many benefits, the rapid development of AI also raises important concerns related to privacy, ethics, and employment. It is therefore necessary to ensure responsible use of AI technologies so that they benefit society while minimizing potential risks.

Quantum Computing and the Future Efficiency of DBMS

In the era of big data, organizations handle enormous volumes of information that must be stored, processed, and retrieved efficiently. Database Management Systems (DBMS) play a crucial role in managing this data. However, as datasets grow exponentially and analytical queries become more complex, traditional computing approaches face limitations in speed and scalability. Quantum computing has emerged as a promising technological advancement that could significantly enhance database efficiency in the future.

Unlike classical computers that operate using binary bits (0 or 1), quantum computers use quantum bits or qubits. Through principles such as superposition and entanglement, qubits can process multiple possibilities simultaneously. This capability allows quantum systems to perform certain computations much faster than classical systems.

One of the major applications of quantum computing in DBMS lies in faster search and query processing. Quantum algorithms, such as Grover's algorithm, can significantly speed up search operations in large datasets. This could improve database performance in areas like financial analytics, scientific research, and large-scale data mining where rapid data retrieval is critical.

Quantum computing may also enhance query optimization. Modern databases must evaluate multiple execution plans for complex queries involving joins, indexing, and distributed systems. Quantum algorithms could explore many possible solutions simultaneously, allowing more efficient query planning and faster response times.

Despite these advantages, several challenges limit the immediate adoption of quantum computing in DBMS. Quantum hardware is still in the early stages of development, facing issues such as qubit instability, high error rates, and the need for extremely controlled environments. Additionally, integrating quantum processors with existing classical database architectures requires new algorithms, programming models, and hybrid system designs.

Another constraint is the high cost and limited accessibility of quantum computing infrastructure. Furthermore, there is a shortage of professionals with expertise in both quantum computing and database technologies.

In conclusion, quantum computing holds great potential to transform database efficiency through faster searches, improved optimization, and enhanced security. However, significant technological and infrastructural challenges must be overcome before quantum-enhanced DBMS become a practical reality.



Prof. Dipanshu Jha
LNCT (MCA), BHOPAL

“Knowledge empowers individuals to shape their own future.”

Cloud Computing and its Impact on Modern Business

Cloud Computing refers to the delivery of computing services such as storage, servers, databases, networking, and software over the internet. Instead of relying on physical hardware or local servers, organizations can access these resources through cloud service providers. This technology has significantly transformed the way modern businesses operate by providing flexibility, scalability, and cost efficiency.

One of the major advantages of cloud computing is its ability to reduce infrastructure costs. Businesses no longer need to invest heavily in expensive hardware and maintenance. Cloud platforms allow companies to pay only for the resources they use, making it an economical solution for both small startups and large enterprises.



Prof. Seema Joshi
LNCT (MCA), BHOPAL



Cloud computing also improves collaboration and productivity. Employees can access data and applications from anywhere using an internet connection, which supports remote work and global teamwork. In addition, cloud services offer automatic data backup and enhanced security features, helping organizations protect critical information.

Another important impact of cloud computing is scalability. Businesses can easily increase or decrease their computing resources based on demand. This flexibility enables companies to respond quickly to market changes and customer needs.

Overall, cloud computing has become a vital component of modern business operations. It enhances efficiency, promotes innovation, and allows organizations to remain competitive in the rapidly evolving digital economy.

Cloud computing supports innovation by providing access to advanced technologies like artificial intelligence, machine learning, and big data analytics, helping businesses analyze data and make better decisions. It also improves disaster recovery by ensuring quick restoration of important data during system failures. Additionally, cloud infrastructure allows companies to launch applications faster and adapt quickly to changing market conditions.

“Growth comes from curiosity, dedication, and perseverance.”

Poster Making Competition

On the occasion of Republic Day, Web Page Design Contest, Poster Making Competition, and Speech Competition is organized to show case the talents by students on 24th January 2025.



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BHOPL

NO. 1
THE WEEK
INDIA
TODAY
Outlook

Republic Day Competitions

Chance to Showcase your talent

- Web Page Design Contest
- Poster Making Competition
- Speech Competition

Theme: Republic Day – Honoring the Nation's Spirit

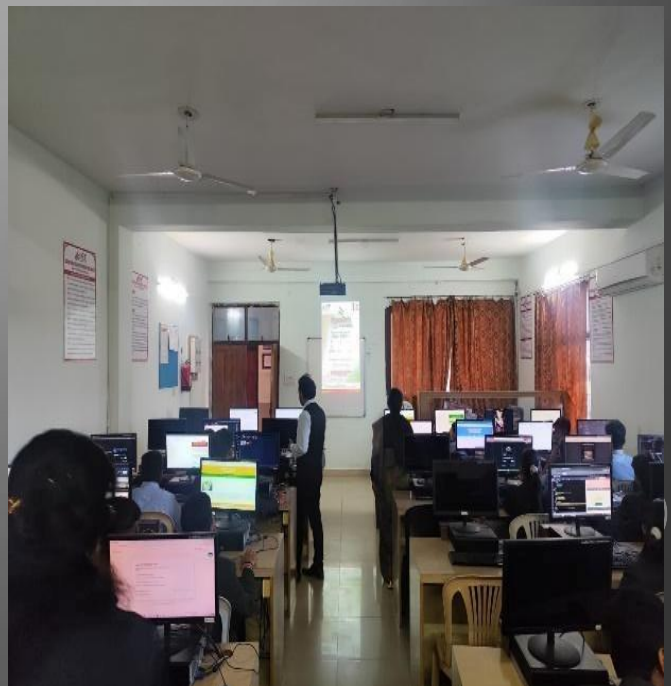
24 JANUARY 2025

Eligibility: Open to all LNCTU Students
Venue: Ramnath Guha Block (MCA Building)

Register and submit your entries here:
<https://forms.gle/2fZFokvnrQTPA8kd7>
Further details, including registration and submission guidelines, will be shared soon. Stay tuned!

Faculty Coordinators:
Prof. Mahesh Kumar Bagwani | Prof. Kanal Soni | Prof. Pragya Shastri

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“Every challenge is an opportunity to learn and improve.”

Workshop on Advanced Web Development

One day workshop: Hands on Advanced Web Development by Mr. Prateek Mishra, Tech Lead at Virtusa on 29th January 2025.



Lakshmi Narain College of Technology (MCA)
by
IIC LNCT-MCA
Technical Club
organizing
**Hands on
Advanced
Web Development**
Expert:
Mr. Prateek Mishra
Tech lead at Virtusa
29
JANUARY 2025
Convenors:
Dr. Sanjay Bajpai, Dr. Jayanti Mehra
Faculty Co-ordinators:
Dr. Neetu Singh, Prof. Mahesh
kumar Bagwani
Time: 12:00PM to 03:30PM
Venue: Room No. 305, Ramnath Guha Block (LNCT MCA)
www.lnct.ac.in 7440717222/111/555



Basant Panchmi Celebration

Basant Panchmi celebrated to worship the Goddess of Knowledge, Saraswati and to get students acquainted about the culture on 03rd February 2025.



“Success is built through discipline, patience, and determination.”

Workshop on Design Thinking

One day workshop on Design thinking, Critical thinking and Innovation Design by Mr. Rahul Gupta (Software Engineer, Ypsilon IT Solutions Pvt. Ltd., Indore) on 10th February 2025.



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WORKING TOWARDS BEING THE BEST
BHOVAL

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD, Government of India)

NO. 1 THE WEEK BY INDIA TODAY Outlook

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA), BHOVAL
organizing

Topic:
Workshop on Design thinking,
Critical thinking and Innovation Design

10
FEBRUARY 2025

Speaker:
Mr. Rahul Gupta
(Software Engineer,
Ypsilon IT Solutions
Pvt. Ltd., Indore)

Convener:
Dr. Sanjay Bajpai
(Director, LNCT-MCA, Bhopal)

Coordinator:
Prof. Mahesh Bagwani

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"Learning never stops for those who want to grow."

Workshop on AI and Prompt Engineering

One day workshop on AI and Prompt Engineering by Mr. Vishal Patidar (CEO & Founder, Ren prompts Pvt. Ltd., Indore) and Mr. Ankur Gurjar (CTO, Ren prompts Pvt. Ltd., Indore) on 17th February 2025.



LNCTF GROUP OF COLLEGES
TOWARDS BEING THE BEST
BHOHAL

INSTITUTION'S INNOVATION COUNCIL
BHOHAL

NO. 1
THE WEEK
INDIA
TODAY
Outlook

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY(MCA),BHOHAL

organizing

Topic:
Workshop on AI and Prompt Engineering

17
FEBRUARY 2025

Speaker:
Mr. Vishal Patidar
CEO and Founder
(Rentprompts Pvt.ltd
Indore)

Converner:
Dr. Sanjay Bajpal
(Director, LNCT-MCA, Bhopal)

Hod's:
Dr. Jayanti Jhariya
Coordinator
Prof. Ripusoodan Sharma, Prof. Dipanshu Jha

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“A positive mindset creates endless possibilities.”

Matribhasha Diwas Celebration

Matribhasha Diwas is celebrated for building connections and fostering social cohesion. Speech, poetry of different languages and traditional dance is performed on 21st February 2025.



LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA), BHOPAL
Celebration of Matribhasaha Diwas
AICTE
Ministry of Education, Government of India
Date: 21st February, 2025

Coordinators:
 Dr. Neetu Singh
 Prof. Mahesh Bagwani

Convener:
 Dr. Sanjay Rajpal
 Director, LNCT-MCA, Bhopal

NO. 1 IN THE WEEK
INDIA TODAY Outlook

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“Hard work and passion always lead to meaningful success.”

Educational Tour of MCA Students

Students of MCA successfully completed an educational tour from **5th March 2025 to 10th March 2025**. A total of **56 students**, accompanied by **Mr. Mahesh Bagwani** and **Mr. Ripusoodan Sharma**, visited Yakult Factory, AAR Shawl Factory, Manali, and Kullu, gaining practical knowledge, adventure experience, and valuable life-learning opportunities.



"Hard work and passion always lead to meaningful success."

Educational Tour of MCA Students



"Hard work and passion always lead to meaningful success."

Internship Training on Data Analytics

A one-week internship training on **Data Analytics using Excel and Power BI** was conducted from **24th March 2025 to 29th March 2025**. The session was delivered by **Mr. Rahul Gupta**, Software Engineer at Ypsilon IT Solutions Pvt. Ltd., Indore, under the coordination of **Dr. Virendra Kumar Tiwari** and **Mr. Pramod Kumar Saket**.



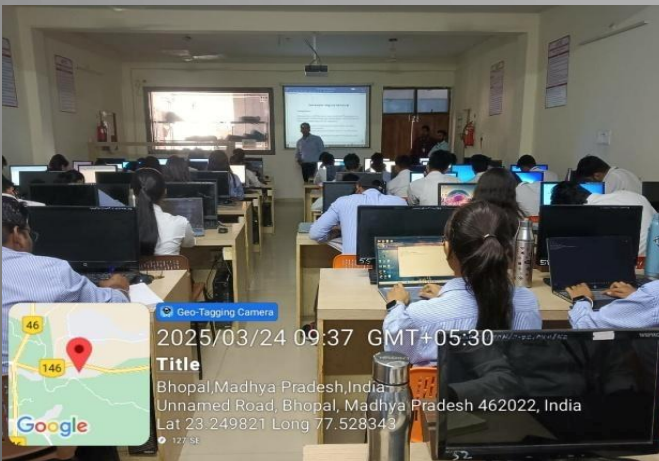
LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (MCA), BHOPAL
ORGANIZING
ONE WEEK SUMMER INTERNSHIP TRAINING
ON
"DATA ANALYTICS USING EXCEL AND POWER BI"

Speaker:
Mr. Rahul Gupta
(Software Engineer, Ypsilon IT Solutions Pvt. Ltd., Indore)

Date: 24-03-2025 to 29-03-2025

Convener: Dr. Sanjay Bajpai (Director, LNCT-MCA, Bhopal)
Coordinators: Dr. Virendra Kumar Tiwari, Prof. Pramod Kumar Saket

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"Hard work and passion always lead to meaningful success."

Internship Training on Data Analytics



"Hard work and passion always lead to meaningful success."



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Thank You

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