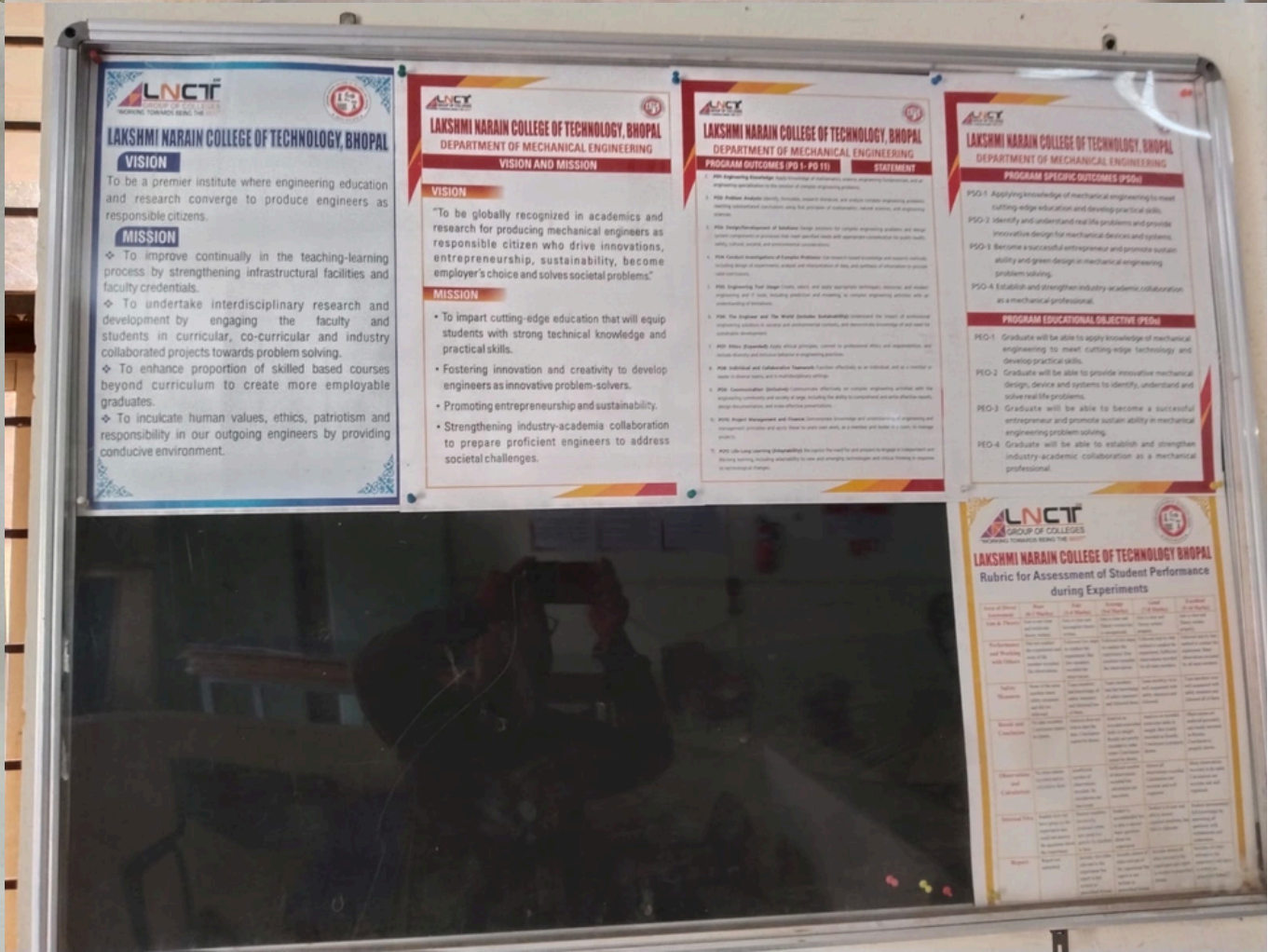
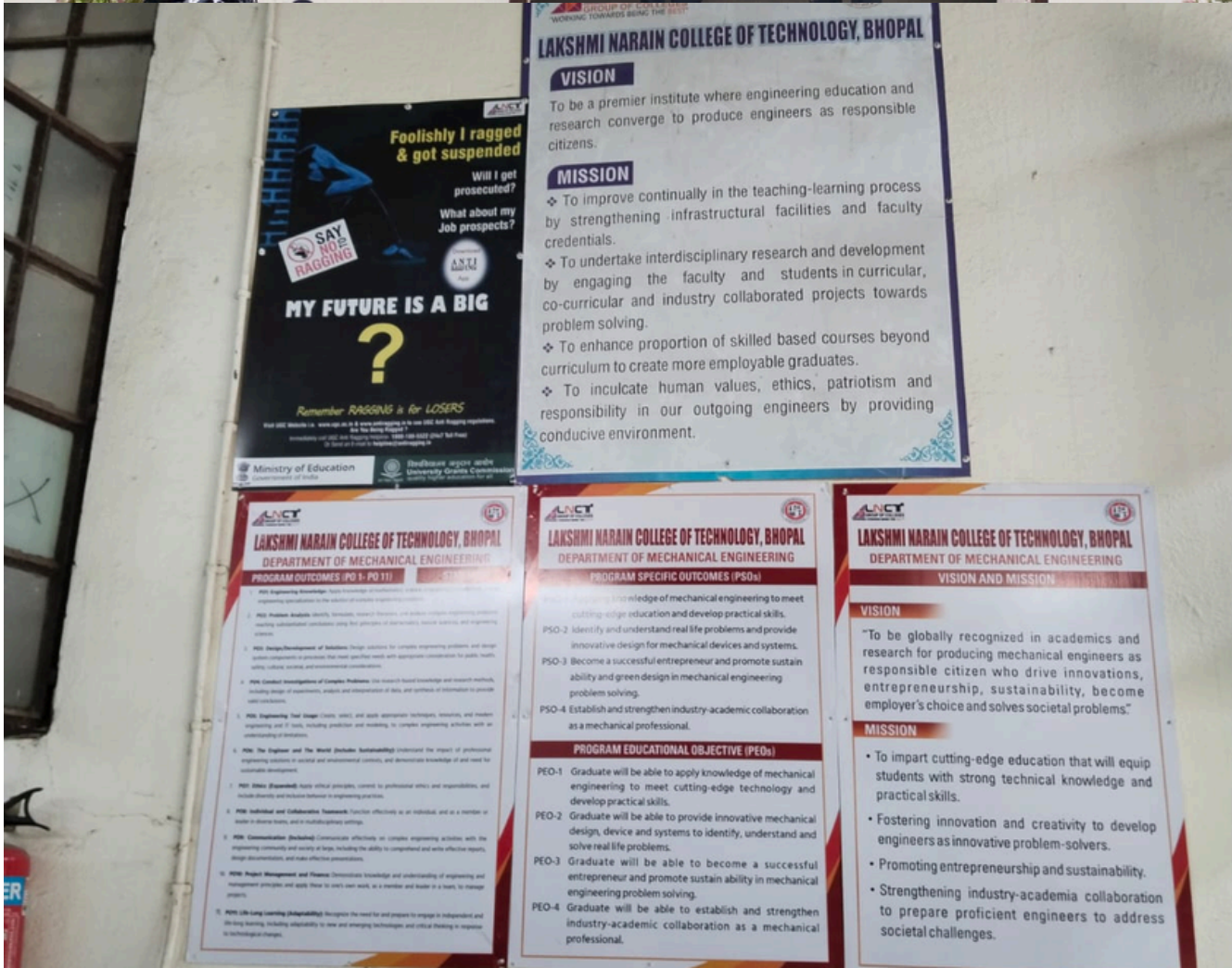


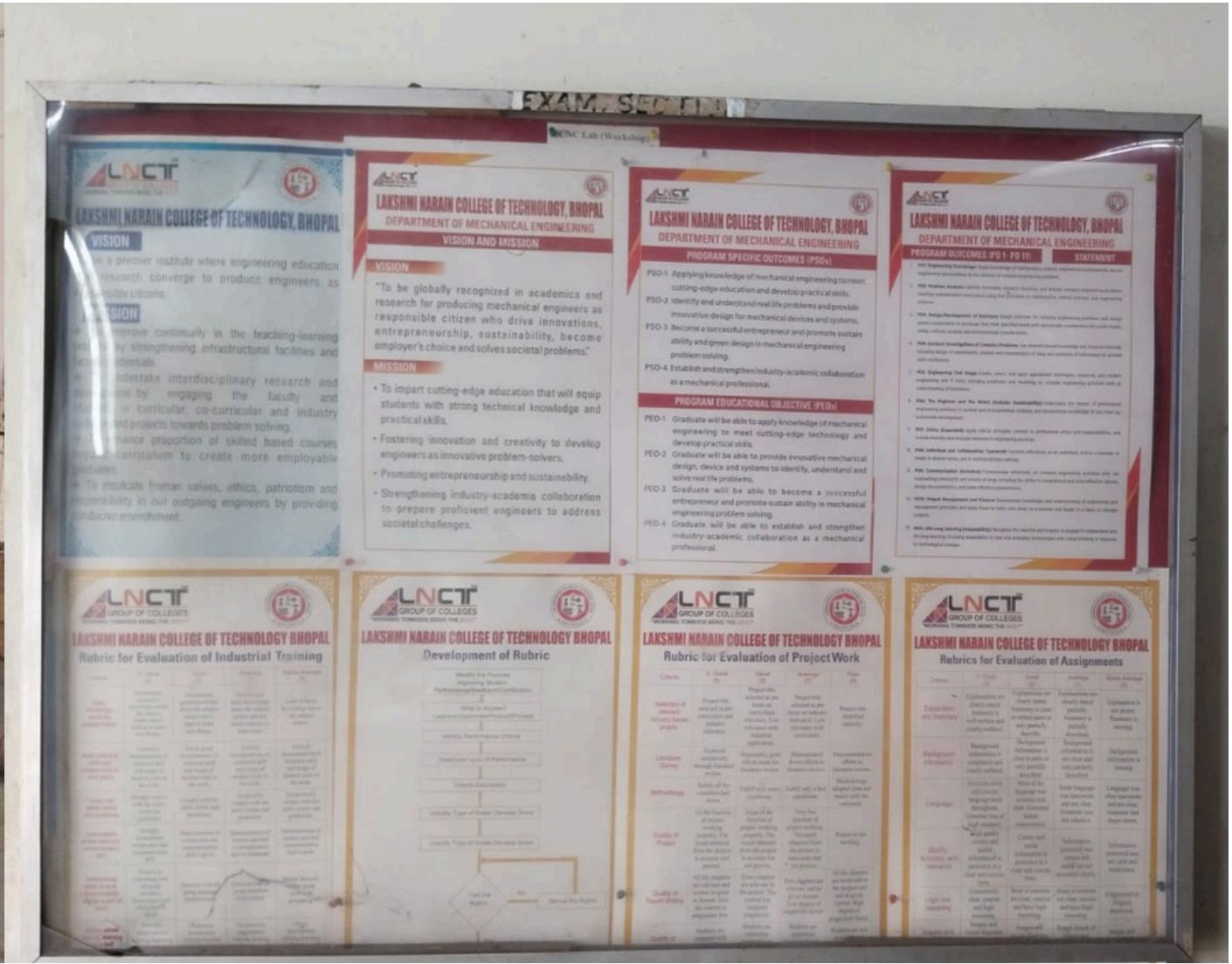


HEAD OF DEPARTMENT MECHANICAL ENGINEERING OFFICE

CENTRAL



WORKSHOP



ADVANCED MANUFACTURING LAB

PROJECT LAB



CAD & CAE LAB





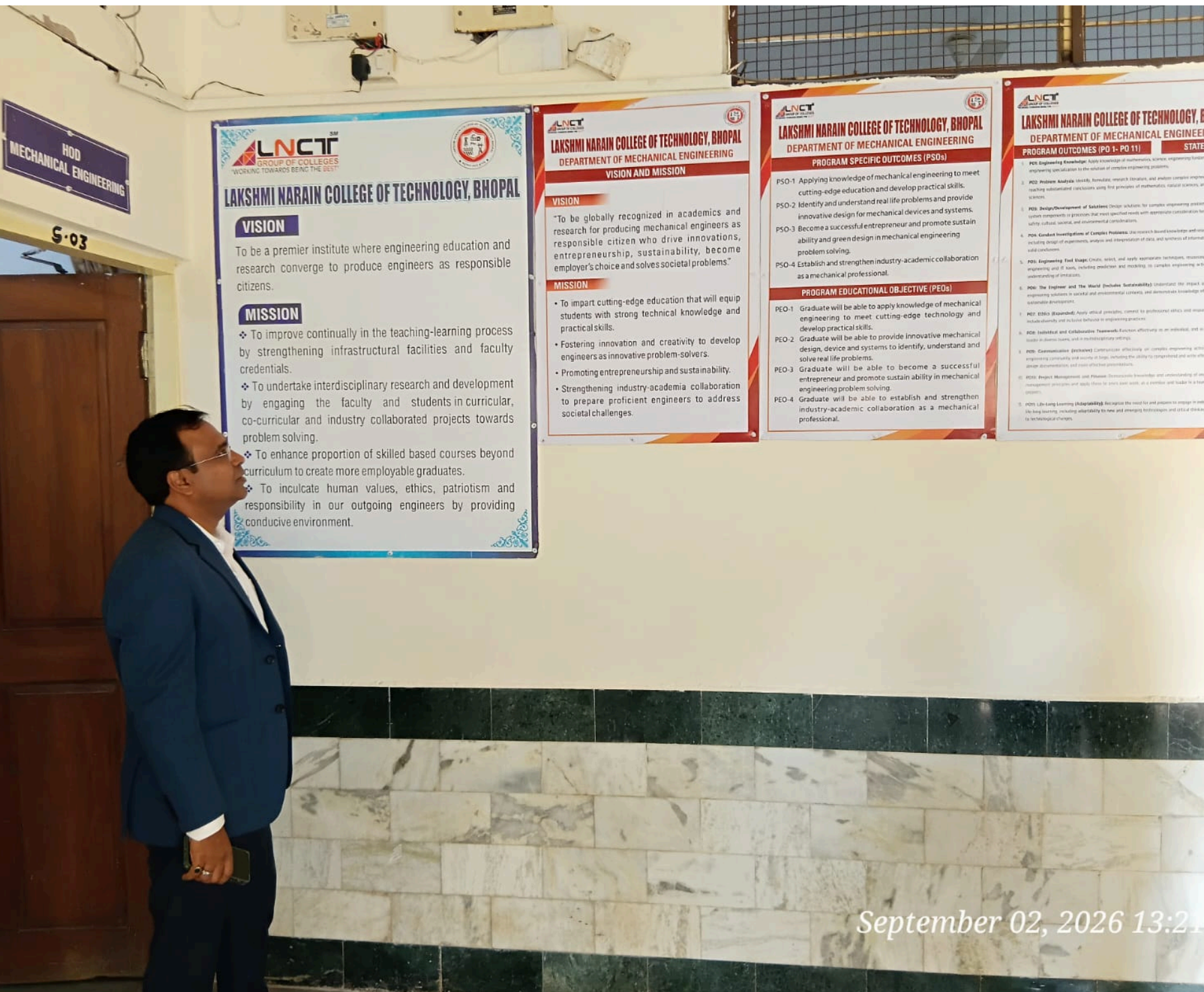
REFRIZATION & AIR CONDITIONING LAB

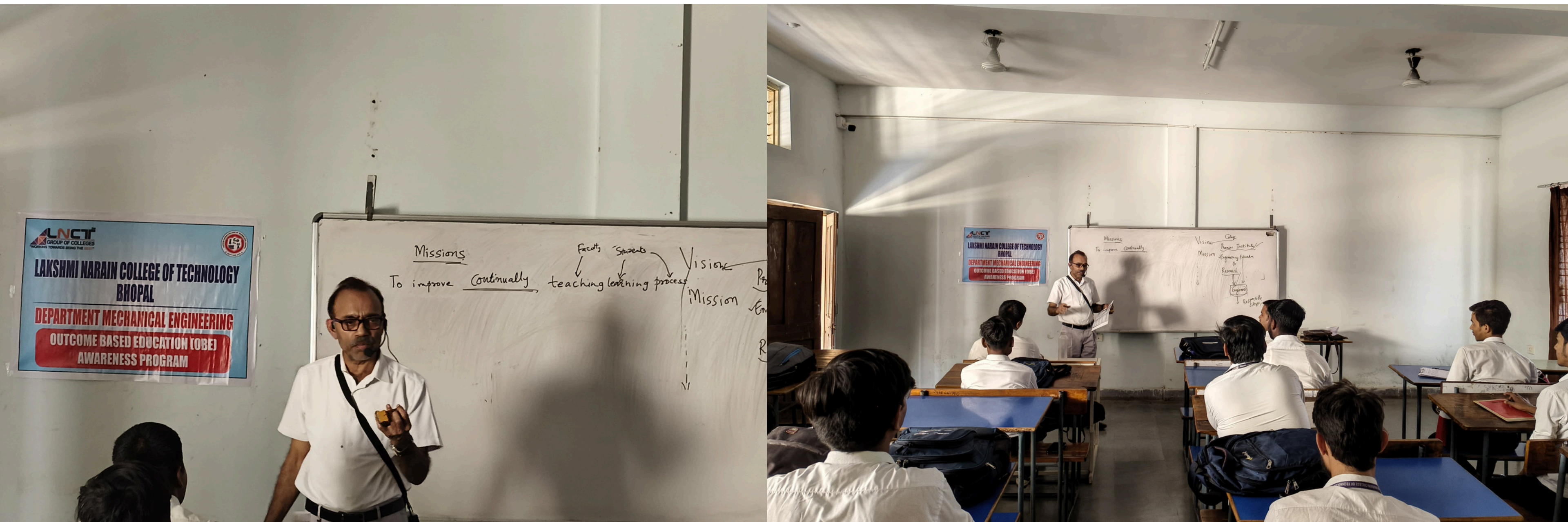


FLUID MECHANICS LAB



HEAT & MASS TRANSFER LAB





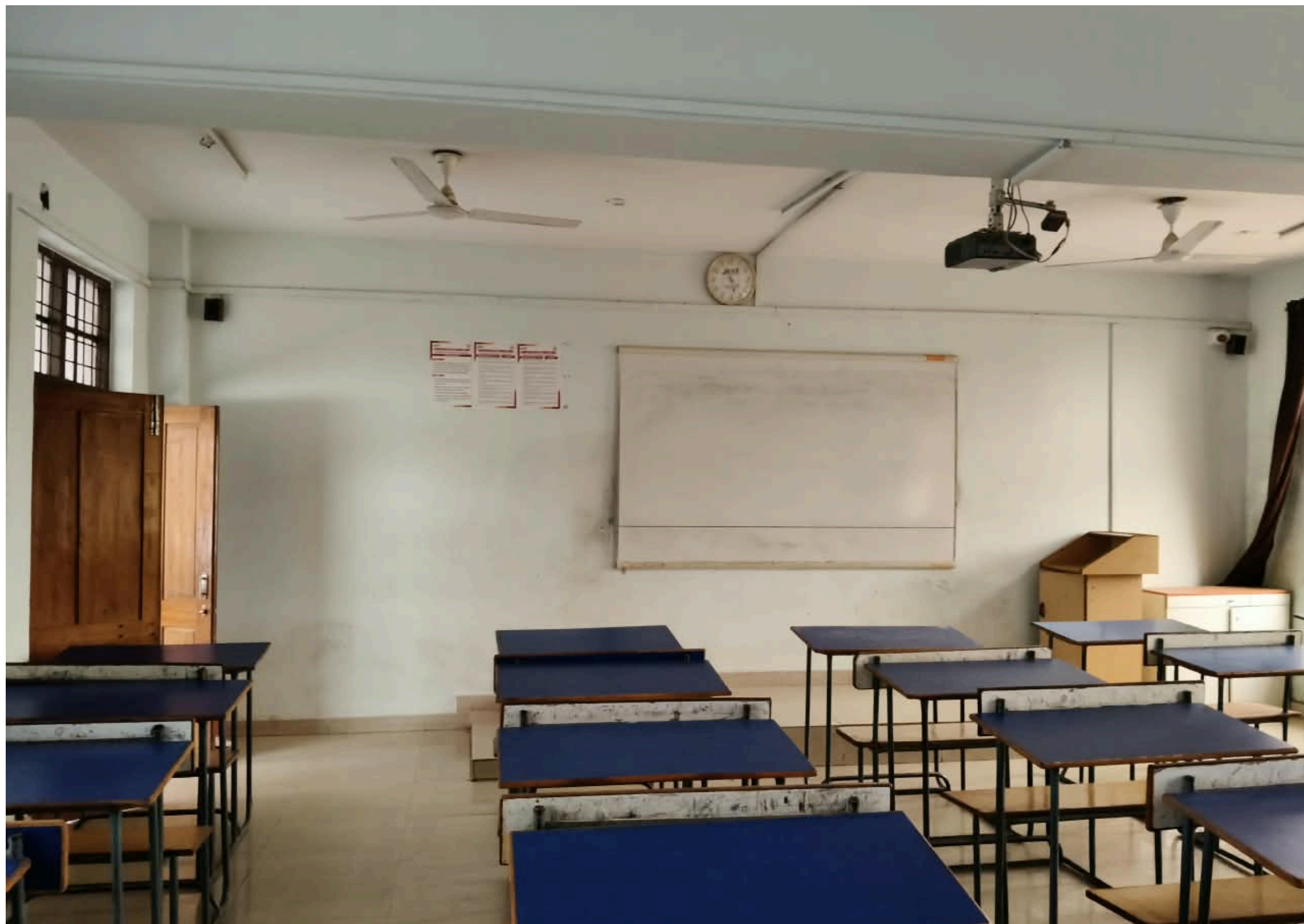
***OUTCOME BASED EDUCATION (OBE) AWARENESS PROGRAM
PRESENTED BY Dr. V.K SAHU (PRINCIPLE LNCT BHOPAL) MAY-2026***



CLASSROOM IN C.V RAMAN BLOCK ROOM NO. 4B9



CLASSROOM IN C.V RAMAN BLOCK ROOM NO. 4B5



CLASSROOM IN LNCT BLOCK ROOM NO. F-15



CLASSROOM IN CME BLOCK ROOM NO. T-04

FACULTY INTERACTION AND EXPERT LECTURE

AN ACADEMIC INITIATIVE FOR PROFESSIONAL GROWTH



EXPERT SPEAKER

Dr. Vipin kumar Tripathi

Professor and Head,
Mechanical Dept.
NITTTR BHOPAL

TOPIC



**Outcome Based
Education (OBE)**



DATE

20/06/2026



TIME

11:00 am



VENUE

ML SCHROFF
SEMINAR HALL
F-08 LNCP



TARGET AUDIENCE

Faculty Members
& Research Scholars

CONDUCTED BY

MECHANICAL ENGINEERING DEPARTMENT

LNCT BHOPAL

MECH @ CONNECT

DEPARTMENT OF MECHANICAL ENGINEERING

July - Dec, 2023

EDITORIAL BOARD:

Faculty Editors:-
Dr. NEERAJ DUBEY
Dr. NEETU SINGH
Prof. JOSY GEORGE

Student Editor:
ANSHUL RAI (V SEM)

Segment Editors:
ARTI THAKUR (V SEM)
 (News around the world)
DEVANSH RAI (V SEM)
 (Sports news)

DEPARTMENT OF MECHANICAL ENGINEERING

VISION:

- To be recognized in academics and research for producing engineers as responsible citizen who are innovative, choice of employers and able to do further studies & research.

MISSION:

- To provide knowledge and skills of Mechanical Engineering to the students.
- To impart quality education to make students competent mechanical engineer and responsible citizen.
- To provide facilities and Environment conducive to grounding scholars for employability, higher studies and research.
- To prepare its students for Successful career in engineering.

Program Educational Objectives (PEOs)

- To make the students able of applying knowledge of mathematics, science and subjects of mechanical engineering in dealing with engineering problems.
- To be able to identify and understand real life problems and suitably design and manufacture, feasible and sustainable mechanical devices and systems.
- To be able to carry out the research work in the field of Mechanical Engineering.
- To be able to use modern tools and techniques for the efficient working and meeting challenges of modern society and industry.

VISION:

To be a premier institute where engineering education and research converge to produce engineers as responsible citizens.

MISSION:

- To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
- To undertake interdisciplinary research and development by engaging the faculty and students in curricular, co-curricular and industry collaborated projects towards problem solving.
- To enhance proportion of skilled based courses beyond curriculum to create more employable graduates.
- To inculcate human values, ethics, patriotism and responsibility in our outgoing engineers by providing conducive environment.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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 NEWS

The Department of Mechanical Engineering, LNCT Group, Bhopal, in collaboration with CRISP, Bhopal, has launched a two-week Faculty Development Program (FDP) on CNC Programming, scheduled from February 19 to March 4, 2023. The objective of this program is to enhance the technical proficiency and teaching methodologies of faculty members in the area of Computer Numerical Control (CNC) programming, which plays a pivotal role in modern manufacturing.

Dr. Kumar, in his address, emphasized the relevance of CNC technology in bridging the gap between academic knowledge and industrial applications, and encouraged faculty members to leverage this opportunity for academic excellence and industry readiness.

The Department of Mechanical Engineering at LNCT, Bhopal, organized an Expert Lecture on advanced methods of material testing on March 19, 2023. The lecture was delivered by esteemed scientists Dr. R.K. Bhariya and Dr. Shiv Kumar Patel from CSIR AMPRI, Bhopal. The session was highly insightful and enriched the attendees' knowledge of cutting-edge material testing techniques. In addition to the lecture, participation certificates were distributed to students who attended a National Level Workshop under the CSIR Integrated Skill Development Program. This workshop focused on enhancing skills in CNC Turner, Welder, and Fitter techniques. The event was a significant success, contributing to the students' professional development and technical expertise.

AUTOMOBILE QUIZ

The Department of Mechanical Engineering hosted an exciting Automobile Quiz on March 12, 2023. This event aimed to ignite students' passion for engineering and innovation. The quiz consisted of four rounds, during which participants demonstrated exceptional performance and showcased their expertise in the field.

EXPERT LECTURE

The Department of Mechanical Engineering, LNCT Bhopal, organized an expert lecture on advanced material testing methods on March 19, 2023, delivered by Dr. R.K. Bhariya and Dr. Shiv Kumar Patel from CSIR AMPRI, Bhopal. The session enhanced students' understanding of modern material testing techniques, followed by the distribution of certificates to participants of the CSIR Integrated Skill Development Program workshop on CNC Turner, Welder, and Fitter skills.

INDUSTRIAL VISIT

The Department of Mechanical Engineering, LNCT Bhopal, organized an industrial visit to Global Skill Park, Bhopal, on March 6, 2023 for B.Tech IV Semester students. The visit provided hands-on exposure to advanced manufacturing technologies, including 4 & 5 axis CNC machines, CNC Lathe, CAM, CNC Milling, and EDM Wire Cut machines, enhancing their practical understanding of modern industrial practices.

INTERNSHIP PROGRAM

The Department of Mechanical Engineering, LNCT Bhopal, successfully conducted a one-week internship program for Mechanical Engineering students. The program combined theoretical learning with practical training, offering hands-on exposure to drones, CNC machining, electric vehicles, and the Idea Laboratory, while enhancing students' technical and professional skills.

ACHIEVEMENTS & ACTIVITIES

FACULTY ACHIEVEMENTS

Congratulations to Vignesh Narasimhan
 On your Model of 3D Printing Technology
 Most desired
 16th March 2023

PATENTS & COPYRIGHTS

Patent Granted
 For the Invention of a Novel Method for the Synthesis of a New Class of Compounds
 Dr. R.K. Bhariya
 16th March 2023

FDPS / WORKSHOPS / SEMINARS

Certificate of Appreciation
 For the participation in FDP on CNC Programming
 16th March 2023

STUDENT ACHIEVEMENTS

Congratulations to Devansh Rai
 On your participation in FDP on CNC Programming
 16th March 2023

SPORTS

CONGRATULATION
 For the participation in State-level Football tournament held at IES Group of Colleges, Bhopal. The team dominated the whole tournament and managed to win the tournament convincingly. Due to his consistent and brilliant performance, he was selected for RGPV University's National team.

GATE Qualified

Devansh Rai, a 7th-semester student in the Department of Mechanical Engineering, LNCT Bhopal, has been selected for an internship at the Bhabha Atomic Center (BARC) in Mumbai for 2023.

Internship Offers

Mr. Abhishek Kumar 7th-semester student in the Department of Mechanical Engineering, LNCT Bhopal, has successfully completed an internship program from U. R. Rao Satellite Centre, Bengaluru in ISRO's Structure Group in 2023.

NEWS AROUND THE WORLD

AAROH Racing Team (GO-KART Electric)
 Grip Racers (Go-KART IC Engine)
 First-Ever Image of Black Hole Revealed
 CSIR Launched First Indigenous High Temperature Fuel Cell System

SPORTS NEWS

Mr. Abhishek Mohan of the Mechanical Department has participated in various Football tournaments. He recently represented Bhopal at State-level Football tournament held at IES Group of Colleges, Bhopal. The team dominated the whole tournament and managed to win the tournament convincingly. Due to his consistent and brilliant performance, he was selected for RGPV University's National team.

Mr. Satwik Pandey of Mechanical Department has participated in various Cricket tournaments and has achieved laurels for the college. He participated in the following tournaments:-

- IBM-Indore- Runners Up
- All Saints Cup- Winners
- Aisect Cricket league- 2nd Runners Up

NEWSLETTER (July - Dec 2023)

LNCT GROUP OF COLLEGES BHOPAL

MECH @ CONNECT

Jan – June, 2024

DEPARTMENT OF MECHANICAL ENGINEERING

EDITORIAL BOARD:



Faculty Editors:-
Dr. SHANKAR KUMAR
Dr. NEETU SINGH
Dr. M.M. SAHU



Student Editor:
ADITYA PATHAK (VI)



Segment Editors:
PRANJAL BATHAM (VI)
(News around the world)
VAIBHAV SHARMA (VI)
(Sports news)

DEPARTMENT OF MECHANICAL ENGINEERING

VISION:

To be recognized in academics and research for producing engineers as responsible citizen who are innovative, choice of employers and able to do further studies & research.

MISSION:

- To provide knowledge and skills of Mechanical Engineering to the students.
- To impart quality education to make students competent mechanical engineer and responsible citizen.
- To provide facilities and Environment conducive to grounding scholars for employability, higher studies and research.
- To prepare its students for Successful career in engineering.

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY, BHOPAL

VISION:

To be a premier institute where engineering education and research converge to produce engineers as responsible citizens.

MISSION:

- To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
- To undertake interdisciplinary research and development by engaging the faculty and students in curricular, co-curricular and industry collaborated projects towards problem solving.
- To enhance proportion of skilled based courses beyond curriculum to create more employable graduates.
- To inculcate human values, ethics, patriotism and responsibility in our outgoing engineers by providing conducive environment.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- To make the students able of applying knowledge of mathematics, science and subjects of mechanical engineering in dealing with engineering problems.
- To be able to identify and understand real life problems and suitably design and manufacture, feasible and sustainable mechanical devices and systems.
- To be able to carry out the research work in the field of Mechanical Engineering.
- To be able to use modern tools and techniques for the efficient working and meeting challenges of modern society and industry.

PROGRAM OUTCOMES (POs) ENGINEERING GRADUATES WILL BE ABLE TO:

1. Engineering knowledge
2. Problem analysis
3. Design/development of solutions
4. Conduct investigations of complex problems
5. Modern tool usage
6. The engineer and society
7. The engineer and society
8. Ethics
9. Communication
10. Individual and team work
11. The engineer and society
12. Life-long learning

FACULTY ACHIEVEMENTS

Dr. Vipin Shrivastava, a distinguished faculty member of the Department of Mechanical Engineering, LNCT Bhopal, has achieved an index of 12. This milestone reflects his impactful research contributions, academic excellence, and the strong citation impact of his scholarly publications.



PATENTS & COPYRIGHTS

1. Dr. Shankar Kumar and Dr. Vikas Pare filed & published, a Design Patent, DesignNo.400701-001, titled "IoT Based Solar Power Agriculture Robot", on 15/01/2024.
2. Dr. Shankar Kumar and Dr. Vikas Pare filed & published, a Design Patent, DesignNo.403824-001, titled "IoT Based Device for Environmental Monitoring", on 07/03/2024.



RESEARCH PUBLICATIONS

Dr. Shashi Ranjan Mohan and Dr. Yogesh Dewang have successfully published a research paper titled "Tool Path Planning for Hole Flanging Process Using Single Point Incremental Forming" in the esteemed MATEC Web of Conferences journal, 2024 edition.

CONFERENCES / FDPs / WORKSHOPS / SEMINARS / STTPS ATTENDED

1. Prof. Jyoti George participated in the 9-day Online Workshop on "Multiple Attribute Decision Making Using Weighted Hierarchical Process" organized by the National Institute of Technology, Mysore, from February 26 to March 5, 2024.
2. Prof. Jyoti George participated in the 9-day International Virtual Faculty Development Program on "Global Convergence in Mechanical Engineering: Bridging Innovation and Sustainability", organized by the Department of Mechanical Engineering, Madras Institute of Technology & Science, Anna Park, India, from February 19 to February 23, 2024.
3. Prof. Jyoti George participated in the 9-day Online International Workshop on "3D Printing & Additive Manufacturing Integration" organized by the Department of Mechanical Engineering, National Institute of Technology, Mysore, India, from March 12 to March 18, 2024.
4. Prof. Jyoti George participated in the 9-day Workshop (Hybrid mode) on "VR Simulations & 3D Development" organized by the IITM Cell, National Institute of Technology, Mysore, from March 16 to March 28, 2024.
5. Prof. Jyoti George participated in the 9-day Faculty Development Program (Hybrid mode) on "Industry 4.0: Technological Revolution", organized by the Department of Mechanical Engineering, Tatyasaheb Kore Institute of Engineering, Agartala, from April 1 to April 9, 2024.
6. Prof. Jyoti George participated in the 2-week Online Faculty Development Program on "PROSODY 4.0/4.1", organized by the Department of Mechanical Engineering, Pimpri Chinchwad Education Trust Institute of Technology, Pimpri, India, from April 15 to April 27, 2024.
7. Prof. Jyoti George participated in the one-day e-workshop on "MTEB: Success Program" organized by Lakshmi Narain College of Technology Bhopal, on June 8, 2024.

STUDENT ACHIEVEMENTS

Akash Sumoriya, 2nd Year, Mechanical Engineering Student from Department of Mechanical Engineering, LNCT, Bhopal, won a gold medal in the Kumite +84 Kg weight category at the RGPV State Karate Championship for 2023-2024.



GATE QUALIFIED STUDENTS

1. Ashutosh Kumar, an alumnus of the Department of Mechanical Engineering, LNCT, Bhopal, has qualified for GATE 2024 with an All India Rank (AIR) of 208.
2. Krishna Kumar Shukla, an alumnus of the Department of Mechanical Engineering, LNCT, Bhopal, has qualified for GATE 2024 with an All India Rank (AIR) of 458.



INTERNSHIP OFFERS

1. Dewanah Vishwakarma, a 7th-semester Mechanical Engineering student at LNCT Bhopal, secured a 2024 Internship at BARC, Mumbai.



DEPARTMENTAL NEWS

1. The Department of Mechanical Engineering, LNCT Group, Bhopal, in collaboration with CRISP, Bhopal, has launched a two-week Faculty Development Program (FDP) on CNC Programming, scheduled from February 19 to March 4, 2024. The objective of this program is to enhance the technical proficiency and teaching methodologies of faculty members in the area of Computer Numerical Control (CNC) programming, which plays a pivotal role in modern manufacturing.
2. Dr. Kumar, in his address, emphasized the relevance of CNC technology in bridging the gap between academic knowledge and industrial applications, and encouraged faculty members to leverage this opportunity for academic excellence and industry readiness.
3. The Department of Mechanical Engineering at LNCT, Bhopal, organized an Expert Lecture on advanced methods of material testing on March 19, 2024. The lecture was delivered by esteemed scientists Dr. R.K. Bhanliya and Dr. Shiv Kumar Patel from CSIR AMPRI, Bhopal. The session was highly insightful and enriched the attendees' knowledge of cutting-edge material testing techniques. In addition to the lecture, participation certificates were distributed to students who attended a National Level Workshop under the CSIR Integrated Skill Development Program. This workshop focused on enhancing skills in CNC Turner, Welder, and Fitter techniques. The event was a significant success, contributing to the students' professional development and technical expertise.



INTERNSHIP PROGRAM

The Department of Mechanical Engineering at LNCT, Bhopal, concluded a highly enriching one-week internship program designed for our mechanical engineering students. This program seamlessly integrated theoretical knowledge with hands-on practical applications, effectively preparing students to meet the evolving demands of the engineering industry. Participants were exposed to cutting-edge technologies, including drones, CNC machining, electric vehicles, and the Idea Laboratory. In addition to this, various skill development initiatives ensured that students received a comprehensive and holistic learning experience.



AUTOMOBILE QUIZ COMPETITION

The Department of Mechanical hosted an exciting Automobile Quiz on March 12, 2024. This event aimed to ignite students' passion for engineering and innovation. The quiz consisted of four rounds, during which participants demonstrated exceptional performance and showcased their expertise in the field.



INDUSTRIAL VISIT

The Department of Mechanical Engineering at LNCT Bhopal organized an industrial visit to Global Skill Park, Bhopal, on March 6, 2024 for B. Tech IV semester students. During the visit, students had the opportunity to explore various advanced machinery and technologies, including four & five Axis Advanced CNC Machines, CNC Lathe and CAM, CNC Milling and EDM Wire Cut Machine. The visit provided students with valuable practical knowledge and exposure to cutting-edge industrial practices in the field of mechanical engineering.



NEWS AROUND THE WORLD

- First-Ever Image of Black Hole Revealed**
The first direct visual evidence of a black hole and its "Shadow" has been revealed by astronomers working on the Event Horizon Telescope (EHT). The image is of the super massive black hole that lies at the centre of huge Messier 87 galaxy, in the Virgo galaxy cluster.
- CSIR Launched First Indigenous High-Temperature Fuel Cell System**
The Council of Scientific and Industrial Research (CSIR) has launched the first indigenous High-Temperature Fuel Cell system under India's flagship program 'New Millennium Indian Technology Leadership Initiative' (NMILTI).



SPORTS NEWS

1. Mr. Abhishek Mohan of the Mechanical Department has participated in various Football tournaments. He recently represented Bhopal at State-level Football tournament held at IES Group of Colleges, Bhopal. The team dominated the whole tournament and managed to win the tournament convincingly. Due to his consistent and brilliant performance, he was selected for RGPV University's National team.
2. Students of Mechanical Department, Mr. Romil Patel and Mr. Abhishek Mohan represented the college in the Football tournament, organized by Reliance Foundation Youth Sports (RFYS). The team showed great resilience and composure in the month-long tournament. They were undefeated throughout the tournament and were crowned as City Champions. The team also qualified for the National Championship which will be held at Emerald High School, Indore.
1. Mr. Satwik Pandey of Mechanical Department has participated in various Cricket tournaments and has achieved laurels for the college. He participated in the following tournaments:- Aisect Cricket League- 2nd Runners Up
- IIM-Indore- Runners Up - All Saints Cup- Winners

AAROH Racing Team

AAROH Racing Team is the official student motorsports team dedicated to designing, developing, and manufacturing electric Go-Karts and All-Terrain Vehicles (ATVs). The team participates in state and national-level competitions, providing hands-on experience in automobile design, manufacturing, testing, and innovation. Members apply classroom knowledge to real-world engineering while also gaining exposure to project management, business planning, and teamwork. AAROH Racing Team fosters technical excellence, creativity, leadership, and a passion for motorsports through practical learning and competitive challenges.



CONTACT DETAILS

Department of Mechanical Engineering
LNCT Group of Colleges
Kolar Road, Bhopal (M.P.) – 462042
0755-4025000, 4025200
mech@lnct.ac.in
www.lnct.ac.in

PUBLICATION DETAILS

- Newsletter Name : MECH @ CONNECT
- Volume : Jan – June, 2024
- Published by : Department of Mechanical Engineering, LNCT Group of Colleges, Bhopal
- All rights reserved.

To be recognized in academics and research for producing engineers as responsible citizen who are innovative, choice of employers and able to do further studies & research.



"WORKING TOWARDS BEING THE BEST"

NEWSLETTER (Jan - June 2024)

EDITORIAL BOARD:

Faculty Editors:-
Dr. SHANKAR KUMAR
Dr. R.G. PATIL
Dr. M.M. SAHU

Student Editor:
AMBER HARDAHA (VII)

Segment Editors:
ARTI THAKUR (VII)
(News around the world)
DEVANSH
VISHWAKARMA (VII)
(Sports news)

**LAKSHMI NARAIN COLLEGE
OF TECHNOLOGY, BHOPAL**

VISION:

To be a premier institute where engineering education and research converge to produce engineers as responsible citizens.

MISSION:

- To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
- To undertake interdisciplinary research and development by engaging the faculty and students in curricular, co-curricular and industry collaborated projects towards problem solving.
- To enhance proportion of skilled based courses beyond curriculum to create more employable graduates.
- To inculcate human values, ethics, patriotism and responsibility in our outgoing engineers by providing conducive environment.

**DEPARTMENT OF
MECHANICAL ENGINEERING**

VISION:

To be recognized in academics and research for producing engineers as responsible citizen who are innovative, choice of employers and able to do further studies & research.

MISSION:

- To provide knowledge and skills of Mechanical Engineering to the students.
- To impart quality education to make students competent mechanical engineer and responsible citizen.
- To provide facilities and Environment conducive to grounding scholars for employability, higher studies and research.
- To prepare its students for Successful career in engineering.

Program Educational Objectives (PEOs)

To make the students able of applying knowledge of mathematics, science and subjects of mechanical engineering in dealing with engineering problems.

To be able to identify and understand real life problems and suitably design and manufacture, feasible and sustainable mechanical devices and systems.

To be able to carry out the research work in the field of Mechanical Engineering.

To be able to use modern tools and techniques for the efficient working and meeting challenges of modern society and industry.



PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 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.
- 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.
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- 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.

DEPARTMENTAL NEWS

The Department of Mechanical Engineering at Lakshmi Narain College of Technology, Bhopal, in collaboration with CRISP, Bhopal, organized a two-week Faculty Development Program on Additive Manufacturing from July 22 to August 4, 2024. Coordinated by Dr. Hitesh Kumar and Dr. Neeraj Dubey, the FDP enhanced faculty members' knowledge and practical skills in 3D printing and emerging additive manufacturing technologies.

Dr. Kumar, in his address, emphasized the relevance of CNC technology in bridging the gap between academic knowledge and industrial applications, and encouraged faculty members to leverage this opportunity for academic excellence and industry readiness.



INTERNSHIP PROGRAM

The Department of Mechanical Engineering at LNCT, Bhopal concluded a highly enriching one-week internship program designed for our mechanical engineering students. This program seamlessly integrated theoretical knowledge with hands-on practical applications, effectively preparing students to meet the evolving demands of the engineering industry. Participants were exposed to cutting-edge technologies, including drones, CNC machining, electric vehicles, and the Idea Laboratory. In addition to this, various skill development initiatives ensured that students received a comprehensive and holistic learning experience.



FACULTY ACHIEVEMENTS

Patents/Copyrights Published

Dr. Neeraj Dubey, Dr. Shankar Kumar, Dr. M M Sahu, Dr. R G Patil, Prof. Rajeev Singh Chouhan and Prof. Neetu Singh, filed and published a Patent, Application No.202421050320, titled "Composite Broom Stick Comprising Midrib of Cocos Nucifera Leaf Reinforced Polypropylene Plastic", on 26/07/2024.

Research Paper Publication

Dr. Shashi Ranjan Mohan and Dr. Yogesh Dewang have successfully published a research paper titled "Tool Path Planning for Hole Flanging Process Using Single Point Incremental Forming" in the esteemed MATEC Web of Conferences journal, 2024 edition.

Conferences/FDPs/Workshops/Seminars/STTP's attended

Joey George, Faculty of the Mechanical Engineering Department, participated in a five-day online Faculty Development Program on "The Future of Green Energy: Emerging Trends and Technologies", organized by NIT Alwar, Mizoram, from August 5-9, 2024. The program focused on the latest advancements in green energy technologies.

Mr. Mukesh Kumar Ahirwar, Faculty of the Mechanical Engineering Department, participated in a 5-day online Short-Term Training Program (STTP) on "Digital Twin", organized by NITTR Bhopal, from September 9-13, 2024. The program enhanced his knowledge of digital twin technology and its engineering applications.

STUDENT ACHIEVEMENTS

Akash Sumroria, a 3rd-year Mechanical Engineering student, received the LNCT Sports Achievers Award for his outstanding performance in the National-Level Karate competition at the National Sports Meet, bringing pride to the department and the institution.



Team Terrain Warrior of the SAE Club, Department of Mechanical Engineering, LNCT Bhopal, secured 2nd Position in the Drag Race Category at the Mega ATV Championship - Season 9 (2024) held in Goa, competing among 150 teams.



INTERNSHIP OFFERS

Dewansh Vishwakarma, a 7th-semester Mechanical Engineering student at LNCT Bhopal, was selected for a 2024 internship at Bhabha Atomic Research Centre (BARC), Mumbai.



Abhishek Kumar, a 7th-semester Mechanical Engineering student at LNCT Bhopal, successfully completed a 2024 internship at ISRO's U R Rao Satellite Centre, Bengaluru, in the Structure Group.



**NEWS AROUND
THE WORLD**

First-Ever Image of Black Hole Revealed



CSIR Launched First Indigenous High Temperature Fuel Cell System



Machine learning predicts behavior of biological circuits



SPORTS NEWS

Mr. Abhishek Mohan of the Mechanical Department has participated in various Football tournaments. He recently represented Bhopal at State-level Football tournament held at IES Group of Colleges, Bhopal. The team dominated the whole tournament and managed to win the tournament convincingly. Due to his consistent and brilliant performance, he was selected for RGPV University's National team.

Mr. Satwik Pandey of Mechanical Department has participated in various Cricket tournaments and has achieved laurels for the college. He participated in the following tournaments:-

- IIM-Indore- Runners Up
- All Saints Cup- Winners
- Aisect Cricket league- 2nd Runners Up

**ELECTRIC VEHICLE CLUB
(AAROH RACING TEAM)**

AAROH Racing Team is the official student motorsports team of the Mechanical Engineering Department, dedicated to designing and manufacturing electric Go-Karts and ATVs. The team participates in state and national-level competitions, providing hands-on experience in automobile design, manufacturing, innovation, and teamwork.



Grip Racers (Go-KART IC Engine)





LNCTSM
GROUP OF COLLEGES
"WORKING TOWARDS BEING THE BEST"
BHOPAL

DEPARTMENT OF MECHANICAL ENGINEERING

MECH @ CONNECT

NEWSLETTER Jan - June, 2025



DEPARTMENT OF MECHANICAL ENGINEERING

Excellence in Education, Innovation in Action

EDITORIAL BOARD:

Faculty Editors:-
Dr. SHANKAR KUMAR
Dr. M.M. SAHU
Dr. R.G. PATIL

Student Editor:
MANISH K THAKUR (VI SEM)

Segment Editors:
PRINCE PRAJAPATI (VI SEM)
(News around the world)
OM SHARMA (VI SEM)
(Sports news)

QUALITY EDUCATION | INNOVATION | RESPONSIBILITY | EXCELLENCE



PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

- Engineering knowledge
- Problem analysis
- Design/development of solutions
- Conduct investigations of complex problems
- Modern tool usage
- The engineer and society
- Environment and sustainability
- Ethics
- Individual and team work
- Communication
- Project management and finance
- Life-long learning



EXPERT TALK
Dr. Anurag Nigam
Senior Scientist, CSIR-CECRI



AutoCAD Lab Manual
Dr. Anurag Nigam



Certificate of Publication
Dr. Anurag Nigam



INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN RESEARCH
CERTIFICATE
Dr. Anurag Nigam



Certificate of Participation
Dr. Anurag Nigam



SAIRAM
Dr. Anurag Nigam

VISION, MISSION & PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY, BHOPAL

VISION:
To be a premier institute where engineering education and research converge to produce engineers as responsible citizens.

MISSION:
• To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
• To undertake interdisciplinary research and development by engaging the faculty and students in curricular, co-curricular and industry collaborated projects towards problem solving.
• To enhance proportion of skilled based courses beyond curriculum to create more employable graduates.
• To inculcate human values, ethics, patriotism and responsibility in our outgoing engineers by providing conducive environment.

DEPARTMENT OF MECHANICAL ENGINEERING

VISION:
To be recognized in academics and research for producing engineers as responsible citizen who are innovative, choice of employers and able to do further studies & research.

MISSION:
• To provide knowledge and skills of Mechanical Engineering to the students.
• To impart quality education to make students competent mechanical engineer and responsible citizen.
• To provide facilities and Environment conducive to grounding scholars for employability, higher studies and research.
• To prepare its students for Successful career in engineering.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- To make the students able of applying knowledge of mathematics, science and subjects of mechanical engineering in dealing with engineering problems.
- To be able to identify and understand real life problems and suitably design and manufacture, feasible and sustainable mechanical devices and systems.
- To be able to carry out the research work in the field of Mechanical Engineering.
- To be able to use modern tools and techniques for the efficient working and meeting challenges of modern society and industry.



Defence India Startup Challenge





DEPARTMENT NEWS

The Department of Mechanical Engineering, LNCT Group, Bhopal, in collaboration with CRISP, Bhopal, has launched a two-week Faculty Development Program (FDP) on CNC Programming, scheduled from February 19 to March 4, 2025. The objective of this program is to enhance the technical proficiency and teaching methodologies of faculty members in the area of Computer Numerical Control (CNC) programming, which plays a pivotal role in modern manufacturing.

Dr. Kumar, in his address, emphasized the relevance of CNC technology in bridging the gap between academic knowledge and industrial applications, and encouraged faculty members to leverage this opportunity for academic excellence and industry readiness.

The Mechanical Engineering Department of Lakshmi Narain College of Technology, Bhopal, successfully organized an insightful Expert Talk on April 4, 2025, centered around the future of Renewable Energy. The session was led by Dr. Ankur Nigam, Scientist at CIAE, who shared his profound knowledge on key areas such as solar energy, green energy technologies, electric vehicles, and agricultural instruments.

The Department of Mechanical Engineering, LNCT Bhopal, organized an Expert Lecture on Advanced Methods of Material Testing on March 19, 2024. The session was delivered by Dr. R.K. Bhartiya and Dr. Shiv Kumar Patel from CSIR-AMPRI, Bhopal. Participation certificates were also awarded to students who attended the National Level Workshop under the CSIR Integrated Skill Development Program in CNC Turner, Welder, and Fitter techniques. The event enhanced students' technical knowledge and practical skills.

AAROH RACING TEAM

AAROH Racing Team is the official motorsports club dedicated to designing and building electric go-karts and all-terrain vehicles (ATVs) for state and national-level competitions. The club provides students with hands-on experience in vehicle design, manufacturing, CAD modeling, testing, and project management, helping them apply classroom knowledge to real-world engineering challenges. Members also gain exposure to business planning, cost analysis, and teamwork in a competitive, fast-paced environment. AAROH Racing Team is the perfect platform for students passionate about automobiles, innovation, and motorsports.



WORLD NEWS

- First-Ever Image of Black Hole Revealed
- CSIR Launched First Indigenous High Temperature Fuel Cell System
- GAZM03D-India's first mobile app, enabling Ease Of Manufacturing
- NASA's Curiosity Rover finds an ancient oasis on Mars
- Machine learning predicts behavior of biological circuits



SPORTS NEWS

- Mr. Abhishek Mohan of the Mechanical Department has participated in various Football tournaments. He recently represented Bhopal at State-level Football tournament held at IES Group of Colleges, Bhopal. The team dominated the whole tournament and managed to win the tournament convincingly. Due to his consistent and brilliant performance, he was selected for RGPV University's National team.
- Mr. Satwik Pandey of Mechanical Department has participated in various Cricket tournaments and has achieved laurels for the college. He participated in the following tournaments:-
• IIM-Indore- Runners Up - All Saints Cup- Winners
• Ajeet Cricket League- 2nd Runners Up



"Engineering is not just about technology, it is about improving lives."

NEWSLETTER (Jan - June 2025)



LNCT
GROUP OF COLLEGES
"WORKING TOWARDS BEING THE BEST"
BHOPAL

MECH @ CONNECT

NEWSLETTER OF THE DEPARTMENT OF MECHANICAL ENGINEERING

Student Editor:



MANISH THAKUR (VII)

DEPARTMENT OF MECHANICAL ENGINEERING

EDITORIAL BOARD:

Faculty Editors:-
Dr. SHANKAR KUMAR
Dr. SHAILENDRA DWIVEDI
Dr. SANTOSH SANODIYA

July- Dec, 2025



Segment Editors:



PRINCE PRAJAPATI (VII)
(News around the world)



OM SHARMA (VII)
(Sports news)

INNOVATE | LEARN | EXCEL

MECH @ CONNECT

July- Dec, 2025

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY, BHOPAL

VISION:

To be a premier institute where engineering education and research converge to produce engineers as responsible citizens.

MISSION:

- To improve continually in the teaching-learning process by strengthening infrastructural facilities and faculty credentials.
- To undertake interdisciplinary research and development by engaging the faculty and students in curricular, co-curricular and industry collaborated projects towards problem solving.
- To enhance proportion of skilled based courses beyond curriculum to create more employable graduates.
- To inculcate human values, ethics, patriotism and responsibility in our outgoing engineers by providing conducive environment.

DEPARTMENT OF MECHANICAL ENGINEERING

VISION:

To be recognized in academics and research for producing engineers as responsible citizen who are innovative, choice of employers and able to do further studies & research.

MISSION:

- To provide knowledge and skills of Mechanical Engineering to the students.
- To impart quality education to make students competent mechanical engineer and responsible citizen.
- To provide facilities and environment conducive to grounding scholars for employability, higher studies and research.
- To prepare its students for Successful career in engineering.




PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

DEPARTMENT NEWS

July- Dec, 2025

- Mr. Josy George, Faculty of Mechanical Engineering Department participated in Five Days Online Faculty Development Program (FDP), on "Cutting-Edge Research in Mechanical Engineering", organized by Ashoka Women's Engineering College, Dupadu, Kurnool, Andhra Pradesh, from 14-05-2025 to 18-05-2025.
- Industrial Visit to CJ Gelatin Factory, Mandideep
- On 29th August, the Department of Mechanical Engineering organized an industrial visit to CJ Gelatin Factory, Mandideep (M.P.). During the visit, Dr. A.K. Banga, General Manager, provided valuable insights into the processing and manufacturing of Gelatin, a protein substance derived from collagen present in the tendons, ligaments, and tissues of mammals. He explained the production process, which involves boiling connective tissues, bones, and skins of animals, and highlighted its diverse industrial applications in medicine capsules, photographic plate coatings, and dyeing & tanning supplies.
- The visit proved to be highly informative as students gained in-depth knowledge about gelatin production processes and interacted meaningfully with Dr. Banga. The experience enriched their practical understanding and industrial exposure.




MECH @ CONNECT

July- Dec, 2025

FACULTY ACHIEVEMENTS

Dr. Deenoo Pawar, Faculty of the Mechanical Engineering Department, has published a textbook titled "AI Integrated Automobile Engineering". The book has been published by Swastik International Publication with ISBN: 978-93-49196-27-8 in the year 2025.

RGPV- affiliated colleges. Lambert Academic Publishing with ISBN published the book: 978-620-8-44802-8.




NEWS AROUND THE WORLD

First-Ever Image of Black Hole Revealed



CSIR Launched First Indigenous High Temperature Fuel Cell System



AAROH RACING TEAM

AAROH Racing Team is the official motorsports club dedicated to designing and building electric go-karts and all-terrain vehicles (ATVs) for state and national-level competitions. The club provides students with hands-on experience in vehicle design, manufacturing, CAD modeling, testing, and project management, helping them apply classroom knowledge to real-world engineering challenges. Members also gain exposure to business planning, cost analysis, and teamwork in a competitive, fast-paced environment. AAROH Racing Team is the perfect platform for students passionate about automobiles, innovation, and motorsports.

AAROH Racing Team (GO-KART Electric)

Grip Racers (Go-KART IC Engine)




STUDENT ACHIEVEMENTS

Akash Sumoriya, a 3rd-year student from the Mechanical Engineering Department (Enrollment No. 0103ME221001), was honored with the LNCT Sports Achievers Award for his exceptional participation in the National Level Karate competition during the National Sports Meet. His dedication and achievement in sports bring pride to the department and the institution.




SPORTS NEWS

Mr. Abhishek Mohan of the Mechanical Department has participated in various Football tournaments. He recently represented Bhopal at State-level Football tournament held at IES Group of Colleges, Bhopal. The team dominated the whole tournament and managed to win the tournament convincingly. Due to his consistent and brilliant performance, he was selected for RGPV University's National team.



GALLERY








"Innovation drives us. Discipline defines us. Excellence is our destination."

NEWSLETTER (July - Dec 2025)



NEWSLETTER
JAN – JUNE 2026
LAKSHMI NARAIN COLLEGE OF TECHNOLOGY
BHOPAL (M.P.)
DEPARTMENT OF
MECHANICAL ENGINEERING



ACHIEVEMENTS & ACTIVITIES
Session 2025-2026

EDITORIAL BOARD:

Faculty Editors:-

- Dr. SHANKAR KUMAR
- Dr. NEERAJ DUBEY
- Dr. SANTOSH SANODIYA

Student Editor:
ANSHUL RAI (VI SEM)

Segment Editors:

- ARTI THAKUR (VI SEM)
(News around the world)
- DEVANSH RAI (VI SEM)
(Sports news)



S.No.	Activity
1	Debate Competition on "India's Preparedness to Face Industrial Disasters like the Bhopal Gas Tragedy"
2	Intellectual Property Rights (IPR) Awareness Program
3	Space Quiz Competition and a Technical Seminar on Space Exploration and Innovation.
4	Expert Talk on the future of Renewable Energy by Dr. Prashant Baredar, Professor at MANIT Bhopal
5	Expert Lecture on "Career after B.Tech" by Dr. Shankar Kumar, Professor & Head of the Department of Mechanical Engineering
6	Expert Lecture on "Mechanical Engineering education in India : Outcome Based Education (OBE)" by Dr. Vipin Kumar Tripathi, Professor & Head, Mechanical Dept, NITTR Bhopal
7	Mechanical Engineering Faculty Dr. Ranjan Chaturvedi Physically Presented Smart Materials Research at 22nd European Conference on Composite Materials ECCM22, Oslo, Norway
8	Mr. Sachchida Nand, faculty member of the Department of Mechanical Engineering, LNCT Bhopal, participated in a session organized by the MHRD Innovation Cell
9	ATAL Faculty Development Program
10	Faculty Patents (Combined)
11	Faculty Articles (Combined)
12	Industry Visit to Manjeet Industries for the 3rd semester students
13	Industry Visit to CFMTTI, Budni for the 4th semester students
14	Industry Visit to DaulatRam Engineering, Raisen for the 3rd semester students
15	Industry Visit to CJ Gelatin Factory, Mandideep for the 3rd semester students
16	Students and Faculty attended ISHRAE Workshop at Hotel Amer, Bhopal
17	ISHRAE Charter of the ISHARE Student Chapter
18	ISHRAE Seminar on Sustainability at LNCT
19	NPTEL achievements (Combined)
20	Students Achievement RGPV State Judo Men's Tournament

EXPERT TALKS

Expert Lecture by Dr. Vipin Kumar Tripathi, Professor & Head, Mechanical Dept, NITTR Bhopal




Mechanical Engineering Dept, LNCT Bhopal organized a Faculty Interaction & Expert Lecture.

Speaker: Dr. Vipin Kumar Tripathi, Professor & Head, Mechanical Dept, NITTR Bhopal

Topic: Mechanical Engineering education in new education scenario of the country : Outcome Based Education (OBE)

Venue: ML Schroff Seminar Hall, F-08 LNCP (date : 20/06/2026)

Audience: Faculty Members & Research Scholars

Dr. Tripathi shared insights on NEP-aligned curriculum, skill-based learning & industry-academia collaboration to prepare students for future industry needs.

CONFERENCES ATTENDED

Mechanical Engineering Faculty Physically Presented Smart Materials Research at ECCM22, Norway, Northern Europe.*




- LNCT Bhopal gained international recognition as Dr. Ranjan Chaturvedi, Assistant Professor, Mechanical Engineering, physically presented his research at ECCM22 in Oslo, Norway, from 21-25 June 2026.
- ECCM, organized biennially since 1985 by the European Society for Composite Materials, is a premier global forum for composite research. The 2026 edition, hosted by NTNU, drew delegates from 49 countries. India had 35 presenters, mostly from IITs, IISc, and NITs, with limited private institute participation.
- Dr. Chaturvedi's paper, "Electro-Responsive Stiffness Modulation in an Epoxy-Based Hybrid Composite Reinforced with Polypyrrole-Coated Cotton Textiles," received appreciation from global experts. The presentation boosted LNCT's international visibility and opened avenues for collaboration.

RESEARCH ARTICLES & PATENTS

The Department of Mechanical Engineering is thrilled to congratulate our esteemed faculty members, Dr. Neeraj Dubey, Dr. Shankar Kumar, Dr. Rajesh Kumar Pandey, Dr. Vipin Shrivastava, Dr. Arun Wamankar, and Dr. Arvind Kumar Shukla, on the successful publication of their utility patent.

"Universal Twisting Timer Knob with Adaptive Control and Energy Harvesting Features"




This outstanding achievement is a shining testament to our Institute's unwavering commitment to innovation, excellence, and intellectual curiosity. It brings us one step closer to realizing our vision of being a premier institution.

RESEARCH ARTICLES & PATENTS (Contd.)

Department Achievement: Utility Patent Publication

We are delighted to announce the successful publication of a Utility Patent titled:

"An Improved Self-Lubricating Gear System for High-Speed Power Transmission"

Application No.: 202521069670 A
Date of Publication: 01/08/2025

Filed under the name of
Lakshmi Narain College of Technology, Bhopal

Congratulations to the inventors:

- Mr. Sachchida Nand
- Dr. Rajeev Shrivastava
- Mr. Arun Kumar Wamankar
- Mr. Vivek Kumar Pundhir
- Mr. Arvind Kumar Shukla
- Ms. Neetu Singh
- Mr. Maneesh Kumar Dubey
- Mr. Vikas Pare
- Mr. Shashikant Kushwah




INDUSTRY VISITS

Industrial Visit of 4th Semester Mechanical Engineering Students to CFMTTI, Budni, Raisen District (M.P.)






OTHER ACTIVITIES & ACHIEVEMENTS

Students and Faculty attended ISHRAE Workshop at Hotel Amer, Bhopal



ISHRAE Charter of the ISHARE Student Chapter



ISHRAE Seminar on Sustainability at LNCT



NPTEL achievements (Combined)



Students Achievement RGPV State Judo Tournament





NEWSLETTER (Jan - June 2026)

Department of Mechanical Engineering
Lakshmi Narain College of Technology Bhopal



The Department

Mechanical Engineering is a fundamental branch in Engineering from which much of modern technological innovation originates. Mechanical engineers routinely find themselves at the forefront of biomedical, energy, aerospace, manufacturing, nuclear and robotics research. The department of Mechanical Engineering at LNCT Bhopal aims at creating highly-trained technical manpower, providing technical solutions to societal and industrial challenges, and engaging in frontier engineering research.

The Department of Mechanical Engineering at LNCT Bhopal is renowned for its research, faculty and students. The department is proud of its faculty members, whose credentials are among the best anywhere in the world. With over 41 such faculty members and about 20 laboratories with cutting-edge equipment and research facilities, the department supports training of manpower and solving of research and industrial problems in all areas of mechanical engineering.

Vision of The Department

"To be globally recognized in academics and research for producing mechanical engineers as responsible citizen who drive innovations entrepreneurship, sustainability becomes employer's choice and solves societal problems."

Mission of the Department

1. To impart cutting-edge education that will equip students with strong technical knowledge and practical skills.
2. Fostering innovation and creativity to develop engineers as innovative problem-solvers.
3. Promoting entrepreneurship and sustainability
4. Strengthening industry-academia collaboration to prepare proficient engineers to address societal challenges.

Program Educational Objectives (PEOs)

1. Graduate will be able to apply knowledge of mechanical engineering to meet cutting-edge technology and develop practical skills.
2. Graduate will be able to provide innovative mechanical design, device and systems to identify, understand and solve real life problems.
3. Graduate will be able to become a successful entrepreneur and promote sustainability in mechanical engineering problem solving.
4. Graduate will be able to establish and strengthen industry-academic collaboration as a mechanical professional.

Program Specific Outcomes (PSOs)

1. Applying knowledge of mechanical engineering to meet cutting-edge education and develop practical skills.
2. Identify and understand real life problems and provide innovative design for mechanical devices and systems.
3. Become a successful entrepreneur and promote sustainability and green design in mechanical engineering problem solving.
4. Establish and strengthen industry-academic collaboration as a mechanical professional.

HOD DESK

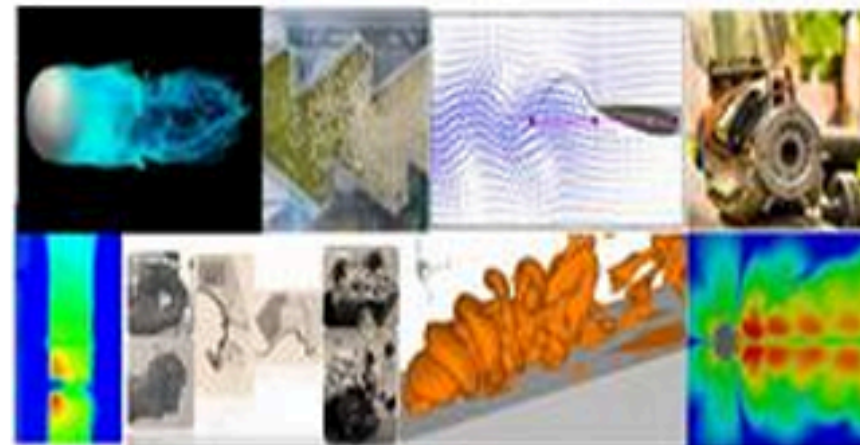
The Department of Mechanical Engineering at LNCT Bhopal had its existence right from the inception of the college in the year 1998 and beholds the reputation of being among the finest in the state, with the vision to be recognized globally for creating competent professionals.

The department consistently strives & explores the avenues for skills development and academic mobility to improve the potential for employability of the students. Our students are encouraged to undertake various research projects and encouraged to spend time in the neighboring industries keeping abreast with an era of Mechanical Engineering revolution. The importance of Mechanical Engineering beholds its place everywhere. We at LNCT, impart training to our students according to market needs by involving them in the projects beyond the university curriculum ensuring holistic learning. The students are engaged in the practical tasks which are helpful to provide an exposure to latest trends & technologies in the field of Mechanical Engineering industry. The students are given projects from 3rd semester onward blending the subject knowledge that they gained in the semester with the practical learning. Utmost importance is given to impart good quality technical education along with moral values. A conducive atmosphere is created to enable the students to reap the maximum benefits out of the available state-of-the-art equipment's and fabulous infrastructure.

Our department also maintains active research groups for carrying out collaborative and interdisciplinary research with the state of art research facilities to support our academic programs and research work. Our department has a distinguished record in both teaching and research. The Mechanical Department looks forward to contribute in solving the technological challenges of the society through its teaching and research work involving active participation from all sections of the society.

Research

We conduct fundamental and applied research in broad areas of Mechanical Engineering, reaching well beyond traditionally identified domains.



Current projects have an impact both at national and international level, cutting across boundaries of different disciplines. With its signature research programs of national and international distinction, the department aims to make a positive contribution towards securing environmental, industrial, and societal sustainability. Researchers are engaged in extremely diverse, and often interdisciplinary projects that include estimating the strength of tangled polymer chains to employing sturdy composites for aero-space structures; harnessing the solar power to designing cleaner combustion devices for a pollution-free environment. The Center of Excellences are underway with Advanced Manufacturing Engineering and Thermal Sciences with modern state of art. The opportunities and challenges are endless!

A few thrust areas are mentioned below:

Nonlinear dynamics and control: Time-delayed systems; Stability; Bifurcation & chaos; Pattern formation; Vibration control; Acoustics; Noise control; Structural vibration; non-smooth systems

Optimization and design: Genetic algorithms; Topology optimization; Constrained nonlinear optimization; CAD; Product design; Reverse engineering

Robotics and multibody dynamics: Automotive systems; Parallel manipulators; Humanoid robots; Intelligent control systems; Flexible manipulators; Mechanism theory; Compliant mechanisms

Solid mechanics: Composite mechanics, Polymers; Dislocation dynamics; Plasticity; Fracture mechanics; Impact mechanics; Finite element method; Material modeling; Experimental techniques Continuum thermodynamics; Lattice dynamics; Phase transformation; Defects; Thin films; Contact mechanics; Electrodynamics; Fluid-structure interaction; Smart materials

Thermal sciences: Computational heat transfer; Boiling; Condensation; Convection; Thermal management; Heat pipes; Solar energy; Combustion; Energy storage; Batteries and fuel cells; IC Engines; Alternative fuels; Gas turbines.

Applied mathematics: Engineering computation; Variational methods; Asymptotic and perturbation methods; Inverse problems Fluid mechanics: Computational fluid dynamics; Turbulence; Experimental techniques; Multiphase flows; Fluid instability and transition; Flow in porous media; Granular flows; non-Newtonian fluids; Wind turbines Geophysics: Magnetohydrodynamics; Planetary dynamos; Asteroids; Sand dunes; Satellites

Manufacturing technology: Advanced machining processes; CAM; Metal forming; Micro-/Nano-fabrication; Nanocomposites; Die and mold design; Tribology; Rapid prototyping; Additive manufacturing.

Research Facilities: IDEA Lab, MODROBS Lab, Advanced Material Processing Lab, Modeling and Simulation Lab.

Department Achievements

The Department of Mechanical Engineering at LNCT Bhopal had its existence right from the inception of the college in the year 1998 and beholds the reputation of being among the finest in the state, with the vision to be recognized globally for creating competent professionals.

Some of the target activities focused in the department is not limited to Intensive teaching learning for UG and PG Curriculum, Research Laboratory Development, Research, Technology Transfer and Community Service Projects, Patenting of the Research Outputs, Research Publications, Conferences, Seminar and Symposium Organization, Collaboration and MoUs with leading industries and academic organizations, Need assessment of the industries etc.

Many research articles have been published by the eminent faculties of the department in reputed indexed journals.

B
R
O
C
H
U
R
E

INTERNATIONAL ON CONFERENCE ON (RAME -2024)

International Conference on Recent Advances in Mechanical
Engineering
(RAME 2024)

REGISTRATION FORM

Name: (Mr./Dr./Ms.).

Category :

(Academician/Student/Industrialist)

Organization:.....

Mailing Address:

.....

Mobile/Phone:.....

E-Mail-ID:

Accommodation Required (Yes/No):

DEMAND DRAFT DETAILS

D.D. Number:

Issuing Bank:

Amount: Date :

Signature

(Student must carry their college ID-Card to the Conference Venue)

Registration and Conference Details

Registration Process: To register, follow these steps:

1. Online Registration: Visit our website (www.lnct.ac.in) and fill out the registration proforma.

2. Offline Registration: Send the duly filled registration form to the institute directly.

Payment Options

Registration fees can be submitted through:

- Cash

- Demand Draft (DD)

- Online transaction

Important Instructions

- College ID-Card: Students must carry their college ID-card to the conference venue.

- DD Details: Mention your name, contact number, and conference name on the back of the DD. For more information, please visit our website: (www.lnct.ac.in)

Conference email id.: rame2024@lnct.ac.in

Organizing Committee:

1. Dr. Arvind Kumar Shukla
2. Dr. Vikas Pare
3. Dr. Madan Mohan Sahu
4. Dr. Arun Kumar Wamankar
5. Dr. Vipin Shrivastava
6. Dr. Yogesh Dewang
7. Dr. Jitendra Raghuwanshi
8. Prof. Deenoo Pawar
9. Prof. Maneesh Kumar Dubey
10. Prof. Rajeev Shrivastava
11. Prof. Rajeev Singh Chauhan
12. Prof. Sachchida Nand
13. Prof. Akhilesh Soni
14. Prof. Amit Pratap Singh Bhadoriya
15. Prof. Neetu Singh
16. Prof. Krishna K Thakur
17. Prof. Aswini Rai
18. Dr. Shashi Ranjan Mohan
19. Prof. Kartik Shukla

Legendary Scholar and Visionary Educator:

Dr. S S Gautam, Professor, NERIST, Itanagar:

Lecture 01: Sustainable Tribological Technology and Policy will be delivered by Dr. S S Gautam, Professor, NERIST, Itanagar

Dr. Yogesh Singh, Assistant Professor, NIT, Patna

Lecture 02: The Future of Additive Manufacturing and Sustainable will be delivered by Dr. Yogesh Singh, NIT, Patna.

Dr. Sarang Pande, Professor, MEFGI, Rajkot

Lecture 03: Green Technologies for Environmental Sustainability: Success Stories and Lessons Learned will be delivered by Dr. Sarang Pande

Dr. Anil Kumar, Senior Assistant Professor, KNIT Sultanpur

Lecture 04: The Importance of Education and Awareness in Promoting Sustainable Development will be delivered by Dr. Anil Kumar, KNIT, Sultanpur

Dr. B. Nahak, Associate Professor, MNNIT Allahabad

Lecture 05: The Future of Energy Storage: Innovations and Implications for Sustainable Energy Systems will be delivered by Dr. B. Nahak, Associate Professor, MNNIT Allahabad

Publications: in Conference Proceedings



Organizing
International Conference on Recent Advancements in Mechanical
Engineering

RAME 2024)

December, 20-21, 2024

December, 20-21, 2024

Technically Sponsored by



CONTACT US

Dr. Shankar Kumar:9993178309

Dr. Hitesh Kumar: :9926770115

Dr. Neeraj Dubey: 7415808338

Organizing Secretary, RAME 2024

Department of Mechanical Engineering

LAKSHMI NARAIN COLLEGE OF TECHNOLOGY (LNCT)

(Accredited by National Board of Accreditation, NBA New Delhi.)

LNCT CAMPUS, KALCHURI NAGAR, (P.O. KOLUA) RAISEN

ROAD, BHOPAL-462022 (M.P).PHONE: 0755-6185300,0755-

6185300/1/2/3/4/5

Website: www.lnct.ac.in,

Conference email id rame2024@lnct.ac.in



INTERNATIONAL ON CONFERENCE ON (RAME -2024)

About LNCT Group

LNCT Group is a premier educational institution in central India, dedicated to producing high-quality skilled manpower. With ISO-9001 certification and NBA accreditation, LNCT offers engineering, management, pharmacy, and medical programs.

Campus and Facilities

Our 50-acre campus in Bhopal features state-of-the-art infrastructure, including:

- Highly qualified faculties
- Academic and research centers
- Digital classrooms and libraries
- Computer and electronics labs
- Hostel, mess, and sports facilities
- Central workshop and auditorium
- Wi-Fi enabled campus

About Bhopal

Located in the heart of India, Bhopal is a vibrant city founded by Raja Bhoj. Easily accessible by air, rail, and road, Bhopal is a melting pot of diverse cultures.

Explore Nearby Attractions

Bhopal is a gateway to several iconic tourist destinations, including:

- Kanha National Park
- Mahakaleshwar Jyotirling Temple in Ujjain
- Buddhist monuments in Sanchi
- Hill station Pachmarhi

Connectivity

Bhopal offers excellent connectivity to nearby cities and states through:- Frequent bus services (private and state) - Rail and air links. Come and experience the rich cultural heritage and natural beauty of Bhopal!

About RAME 2024 Conference

The International Conference on Recent Advancements in Mechanical Engineering 2024 (RAME 2024) aims to bring together experts from various fields to share their research and ideas on advancements in mechanical engineering.

Focus Areas (Not limited to)

- Sustainable engineering innovation and developments.
- Artificial Intelligence and Machine Learning.
- Electrical Vehicles and Energy storage , compact battery and Battery Management Systems
- Robotics and Automation, Mechatronics
- Drone and missile Technology, Modern Aerospace and Defense Systems.
- Alternative energies and fuels, Solar Photovoltaic, Solar, Wind Energy, Hydropower, Biomass Energy, Hydrogen Energy, Engine & Fuel, Fuel Cell, Air Quality, Carbon Sequestration and other Areas of Energy & Environmental Engineering
- Machining, Forming, Welding, Powder Metallurgy.

Conference Goals

- Accelerate global transition to sustainability
- Foster collaboration between industry, academia, and government
- Enhance knowledge and practices in mechanical engineering for societal benefit.

Share cutting-edge research, best practices, and emerging technologies in mechanical engineering and related fields.

Paper Submissions

High quality papers in all areas of sustainable development and latest engineering innovation and advancements in mechanical engineering are solicited. Original papers exploring new directions will receive especially careful consideration. Paper submissions should be limited to a maximum of 6 pages in the IEI format. Accepted papers will be published in the conference proceeding. For more detail visit www.lnct.ac.in and mail your paper at Conference email id: rame2024@lnct.ac.in

Important Dates

Last date of Abstract Submission and Acceptance Intimation:
15 June, 2024

Camera Ready Paper submission: 10th October, 2024

Registration Deadline: 15th December, 2024

Conference Dates: December, 20-21, 2024

Registration Fees

	Rupees	US \$
Academia and Industry	Rs. 1,000/	US \$ 40
Students and Research Scholars	Rs. 500/	US \$ 20
Accompanying Person	Rs. 1000/	US \$ 40
(IEEE/IEI/ISHRAE/SAE/ ISTE etc. Members can get 10% discount in above fee.)		

Conference email id: rame2024@lnct.ac.in

Publication Opportunity

Selected papers, formatted according to conference guidelines, will be published in:

- Conference proceedings

Don't miss this chance to showcase your research, publish paper in Scopus indexed journals and gain international recognition!

Modes of Payment

By demand draft on any nationalized bank, drawn in favor of “LNCTME, RAME2024” payable at Bhopal. Payment can be made through Internet-Banking (Net banking) in the account of LNCT RAME2024. A/C No. is **50200040546660** Payable at **HDFC Bank, 10 C Mandakini Colony Branch, Kolar Road Bhopal (IFSC Code : HDFC0004668).**

CHIEF ADVISORS

Dr. Prashant Baredar, MANIT, Bhopal

Dr. Anil Kumar, DTU, Delhi

Dr. Prashant Jain, IITDM, Jabalpur

Dr. S.P.S Rajput, MANIT, Bhopal

Dr. Indra Veer Singh, IIT, Roorkee

Dr. D. K. Sahgal, IIT, Delhi

Dr. Shailendra Bhadouriya, NIT, Jalandhar

Dr. Nitin Jain, NIT, Raipur

Dr. S.K. Dewangan, NIT, Raipur

Dr. K. K. Pathak, IIT BHU, Varanasi

Dr. Avadesh Sharma, REC, Mainpuri

Dr. Anand Pare, IIT, Indore

Chief Patron:

Shri J.N. Chouksey, Chairman, Chancellor LNCT University and Chairman of LNCT Group

Patron:

- Smt. Poonam Chouksey, Vice Chairperson LNCT Group, Chancellor LNCT Vidyapeeth University
- Dr. Anupam Chouksey, Secretary LNCT Group, Pro Chancellor LNCT Bhopal
- Dr. Shweta Chouksey, Executive Director, LNCT Group University
- Smt. Poojashree Chouksey, Executive Director, LNCT Group

Conference Chair:

1. Dr. Ashok Kumar Rai, Director Admin. LNCT Group
2. Dr. V.K. Sahu, Principal, LNCT ,Bhopal

Conference Co-Chair:

1. Dr. Shailendra Dwivedi
2. Dr. Neeraj Dubey

Convener:

Dr. R. G. Patil
Dr. R. K. Pandey

Co Convener: Dr. Anoop Kumar Pathariya

Organizing Secretary:

1. Dr. Hitesh Kumar
2. Dr. Shankar Kumar

International Advisory Committee:

Dr. M. Awad, University of Mansouria, Egypt

Dr. Vinu Unnikrishanan, West Texas A & M University, Texas

Dr. Habtamu Beri, Adama Science and Technology University, Ethiopia

Dr. Moera Gutu, Adama Science and Technology University, Ethiopia

Dr. Irfan Anjum, Badruddin Magami, King Khalid University, Saudi Arabia

Dr. Saood Ali, School of Mechanical Engineering, Yeungnam University, South Korea

Dr. David Heman, Brown University, USA

Session Chairs:

Dr. R.M. Sarviya, MANIT Bhopal

Dr. Prashant Baredar, MANIT Bhopal

Dr. A. Rehman MANIT Bhopal

Dr. V.K.Soni... MANIT Bhopal

Dr. G.Dixit MANIT Bhopal

Dr. Savita Dixit... MANIT Bhopal

Dr. Maneesh Billore Principal, SISTEc E Bhopal

Dr. P.K. Lahiri, Ex. MD MPCON Bhopal

Dr. M.P.S. Chawla, SGSITS, Indore (M.P.)

Dr. Sanjeev Sharma, RGPV, Bhopal (M.P.)

Dr. Vikas Shinde, Principal Scientist MPCST, Bhopal

Call for Participation