

MECH @ CONNECT

DEPARTMENT OF
MECHANICAL
ENGINEERING

July - Dec,
2023



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 OUTCOMES (POs)

- Engineering Graduates will be able to:**
- 01 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
 - 02 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.
 - 03 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.
 - 04 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.
 - 05 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.
 - 06 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.
 - 07 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.
 - 08 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.
 - 09 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
 - 10 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
 - 11 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.
 - 12 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.

EDITORIAL BOARD:

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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)

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

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, 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 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. 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 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.



EXPERT LECTURE

The Department of Mechanical Engineering, LNCT Bhopal, organized an expert lecture on advanced material testing methods on March 19, 2024, 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, 2024 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



3D Printing & Additive Manufacturing



PATENTS & COPYRIGHTS



FDPs / WORKSHOPS / SEMINARS



STUDENT ACHIEVEMENTS



SPORTS



GATE Qualified



Internship Offers

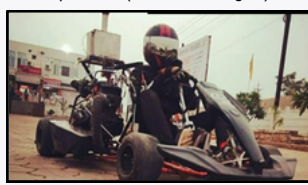


NEWS AROUND THE WORLD

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:-

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

