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BHOPAL

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NEWSLETTER OF THE DEPARTMENT OF MECHANICAL ENGINEERING



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DEPARTMENT OF MECHANICAL ENGINEERING

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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:

- 1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2 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.
- 3 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.
- 4 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.
- 5 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 6 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 7 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.
- 8 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.
- 9 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.
- 10 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.
- 11 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.
- 12 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.

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DEPARTMENT NEWS

- ➔ 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.



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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



STUDENT ACHIEVEMENTS

Akash Sunmoriya, 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.



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)



GALLERY



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