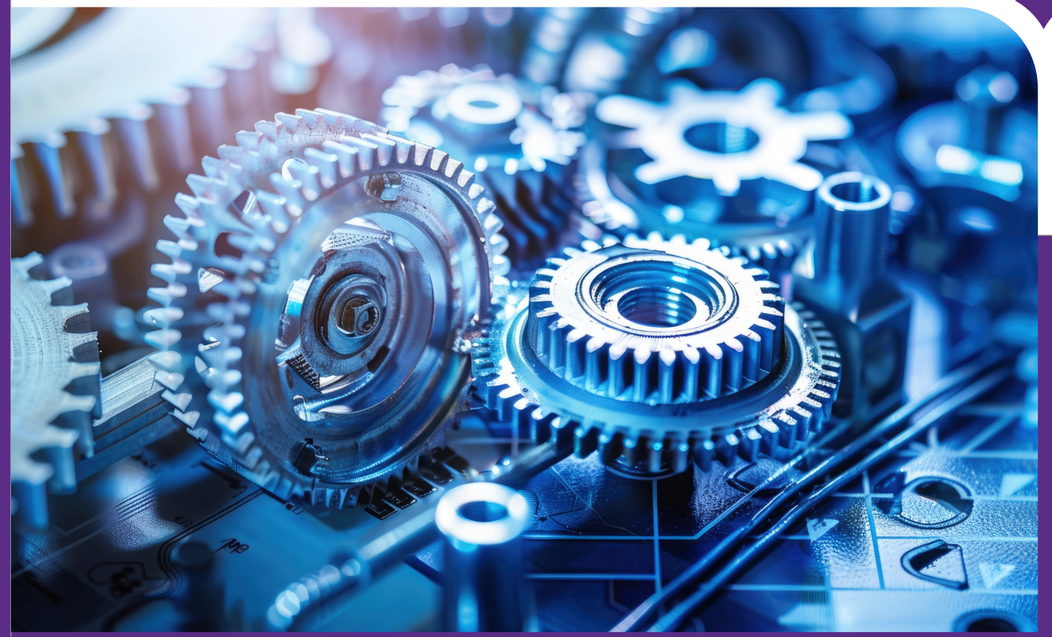
GH raisoni COLLEGE | Engineering and Management Nagpur

An Autonomous Institute, Affiliated to RTMNU, Nagpur
NAAC Accredited "A+" Grade

Department of Mechanical Engineering



GEAR UP
newsletter
2024-25

Volume : XV, Issue : II

Campus : 37-39/1, Shradha Park, Hingna-Wadi Link Road, MIDC, Nagpur - 440016
Email : ghrcem@raisoni.net | **Web :** https://ghrcemn.raisoni.net/

raisoni EDUCATION

Nagpur | Pune | Jalgaon | Amravati | Pandhurna | Bhandara

Department of Mechanical Engineering

GEAR UP

AY 2024-25

A SNEAK PEEK INSIDE THIS ISSUE.....

Sr. No.	Particulars	Page No.
1.	Vision & Mission of Institute	01
2.	Vision & Mission of Department	02
3.	About the Institute	03
4.	Director's Desk	04
5.	About the Department	05
6.	Head of Department's Desk	06
7.	Advisory Board/Editorial Board	07
8.	Major Events / Dept. Activities	08
9.	Forum Activity	12
10.	Extension Activity	13
11.	Faculty/Students Achievements	14

Vision & Mission of Institute

VISION

To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and to create technical manpower of global standards with capabilities of accepting new challenges.

MISSION

- **M1 :** Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stakeholders.
- **M2 :** Our strength is directed to create competent professionals.
- **M3 :** Our endeavor is to provide all possible support to promote research and development activities.

Vision & Mission of Department

VISION

To create excellence in the field of Mechanical Engineering by imparting quality education so as to develop our students to be capable of facing technological challenges.

MISSION

- **M1 :** To impart quality teaching–learning and assessment process that ensures attainment of program outcomes
- **M2 :** To provide quality, innovative, and industry-relevant education that develops competent and professional mechanical engineers with strong fundamentals and problem-solving skills.
- **M3 :** To promote experiential and research-oriented learning through projects, internships, industry interaction, use of modern engineering tools, and to inculcate professional ethics, teamwork, communication skills, and lifelong learning to address societal and global challenges.

About the Institute

G H Raisoni College of Engineering & Management, Nagpur (GHRCEM) was established in the year 2008 and is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. It is recognized by All India Council for Technical Education (AICTE) and is accredited by NAAC with A+ grade with a score of 3.5 in 4 point scale. GHRCEMN has made its mark in the world of education by enlightening minds and empowering ambitions.

GHRCEM has become the center of learning in a short span of time. It offers a plethora of courses to suffice the educational needs of undergraduate and post graduate students. It makes sure to catalyze innovative and original thinking in the students in order to frame their success journey. Continuous evaluation, maintaining world-class standards and alterations are pursued after regular intervals in the curriculum to go hand in hand with the needs of the industry.

Care is taken to inculcate the principles of excellence, leadership, optimism and values in students' life through education empowered with knowledge and vision. The institute has a well-organized library, laboratories and spacious class rooms.

Director's Desk



Dear All,

Greetings from the Director’s Office!

I am pleased to know that Department of Mechanical Engineering has published the Newsletter 2024-25 (EVEN Sem)

I congratulate them for the efforts taken to exhibit the activities/achievements carried out by the department towards excellence.

It is a document highlighting the efforts of the students as well as faculty. This newsletter will help them in continuing their activities/efforts in achieving the milestones set by them in the coming time.

Dr. Vivek Kapur

Director,

GHRCEM, Nagpur

About the Department

- The most diverse of the engineering fields, Mechanical Engineering influences almost all facets of our life and involves several specializations. It lies at the crossroads of all the engineering disciplines. Mechanical Engineering deals with a wide variety of scientific and technological challenges, in the field of design, manufacturing, power generation, control and automation, computer simulation, environment protection, building services, aerospace and many more.
- Mechanical Engineering Department of GHRCEM not only harvests scholars to design machines that are safe, reliable, and efficient, but also make aware of latest manufacturing technology to manufacture products. The department has well equipped laboratories and workshop facilities with modern sophisticated equipment. The state-of-art is learned to create skilled personal using latest machineries like 3D Printing, CNC, Robotics & High-end Software. Objective of the undergraduate program is to prepare the manpower that is globally best. The department seeks an opportunity to play a major role in producing employable engineers. We strive to ensure that all our undergraduate students have a strong education with teaming and leadership skills, involvement in student activities, and the practical background and internship experience. We believe that emphasizing these areas will make our students well qualified to take leadership roles in the future.

HOD's Desk



It’s a matter of great satisfaction to bring forth the newsletter of the Mechanical Engineering Department for the session 2024-25 (EVEN Sem). The purpose of the newsletter is to make everyone aware with the activities carried out throughout the year and to acquaint all with the achievements of the students and faculty.

This is our small venture and I believe this will help us in identifying the areas which we need to improve. It will help us in providing proper guidance to our budding engineers.

I appreciate the efforts put forth by the editorial board to bring out this Newsletter.

Dr. Tejpal C Parshiwanikar

HOD,

GHRCEM, Nagpur

Advisory Board

Dr. Vivek Kapur
Director, GHRCEM, Nagpur

Dr. Tejpal C Parshiwanikar
HoD ME Dept, GHRCEM, Nagpur

Dr. Nilesh C Kanojiya
Academic In-charge, ME Dept.,
GHRCEM, Nagpur

Editorial Board

Dr. Manish Gupta
Dr. Nilesh Kanojiya

Suraj P Mankar, 8th sem
Mayur P Dandekar, 8th sem
Rachit S Thulkar, 6th sem

Major Events / Dept. Activities

Experts Lecture / Seminars / Carrier Guidance Programme



"Career Guidance Seminar" by Mr. Rishi Chourasia, Founder & Director of Vikalp Education, Nagpur, for B. Tech. 6th sem students on 17th March, 2025



Expert Lecture on "Testing of Electric Vehicles and Their Batteries" for B. Tech 4th and 6th semester students on 4th March 2025 by Dr. Ashwin Dhoble, Associate Professor at VNIT, Nagpur

Experts / Guest Lecture



Expert lecture on "Challenges and Issues in Metal Additive Manufacturing using Laser Cladding Process" for B. Tech 4th and 6th semester students on 29th January 2025 by Dr. TVK Gupta, Associate Professor at VNIT, Nagpur



Entrepreneurship Awareness Programme" by Mr. Shubham Yadav from Indo German Tool Room, Nagpur for B. Tech. 4th and 6th sem students on 29th January, 2025

Skill Training Programme / Workshop For Students







Value Added Course

"Industrial exposer for advanced machining processes and introduction of facility at CIPET" for B. Tech. 4th semester students on 19th March 2025
Conducted at & by Central Institute of Plastics Engineering and Technology (CIPET), Govt. of India Institute, Chandrapur.

Skill Training Programme / Workshop For Students







Value Added Course

On the topic “BS-VI Norms” for B. Tech. 4th & 6th semester students from 21st January to 23rd January, 2025 (3 Days) by BroadArks Foundation and supported by Total Energies India

Industrial Visit / Educational Tour







Industrial Visit / Educational Tour

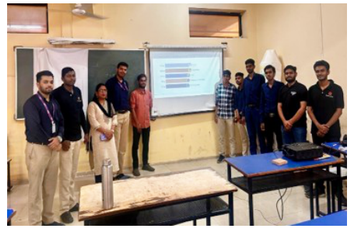
One day Educational Tour to “Maharashtra Metro Rail Corporation Limited in Nagpur” For B. Tech 6th Semester Students on 12th March 2025.

Forum Activity

TECHKRUNCH -2025













1. Paper Presentation
2. Project Competition
3. Technical Quiz Competition
4. Design Making Competition
5. LAN Gaming Competition

“MECHOVATION”
Under TECHKRUNCH-2025 – A National Level Technical Fest on 16th and 17th April 2025.

Extension Activity

Parents-Teacher Meet : 08th March 2025





Celebration of “Maharashtra Utsav-2025” On 21st February 2025











Faculty / Students Achievement

Even Sem 2024-25

- **Copyright Submitted** – 07 (Registered)
- **Journal Publication/Conference Publication –06 (SCI/Scopus published), 02 (SCI Under Review), 01 Conference**
  Faculty Involved – Dr. Achal Shahare, Dr. Ritesh Sambare , Dr. Nilesh C Kanojiya, Mr. Pratik Dhage and Mrs. Seema Rewatkar
- **Patent Submitted/ Granted/ Registered– 01 (Design-Under Examination), 01 (Design-Granted) 01 (Utility-Published)**
  Faculty Involved – Dr. Tejpal C Parshiwanikar, Dr. Nilesh C Kanojiya , Dr. Ritesh Sambare and Mr. Pratik Dhage
- **Funding Proposal Submitted/Granted – 03 (SC BOSE, VANI, - Submitted)**
  Faculty Involved –Dr. Tejpal C Parshiwanikar, Dr. Achal Shahare, Dr. Jay Govind Verma, Dr. Manish Gupta
- **Reviewer Certificate – For 06 research paper (Elsevier, Springer, Taylor & Francis)**
  Faculty Involved – Dr. Nilesh C Kanojiya and Dr. Ritesh K Sambare
- **Mr. Pratik Dhage invited as an expert under UHV subject** to deliver lecture at **MKSNCNW, Hingna, Nagpur**
- **Completed 07 FDP (7 Staff), 03 STTP (3 Staff), 07 Workshop (7 Staff), 02 NPTEL Certifications (2 Staff),** Organized by AICTE/ATAL, Govt. Institute
- **80 + students has participated** in various events conducted by Government & Private Institutions.

- **Project Competition TechPro-25,** National Level Event, on 9 April 2025, 15 Students participated.
- **ICTTSEM-25,** International Level Event, on 08 April 2025, 15 students participated.
- **Pratikruti- 2024,** National Level Event, on 25th February 2025, 15 students participated.
- **Anvention -2025,** National Level Event, on 12th April 2025, 15 students participated.
- **X-plore25,** National Level Event, from 10 & 11 February 2025, 10 students participated.
- **Central India Hackathon,** State Level Event, on 6 February 2025, 15 students participated.