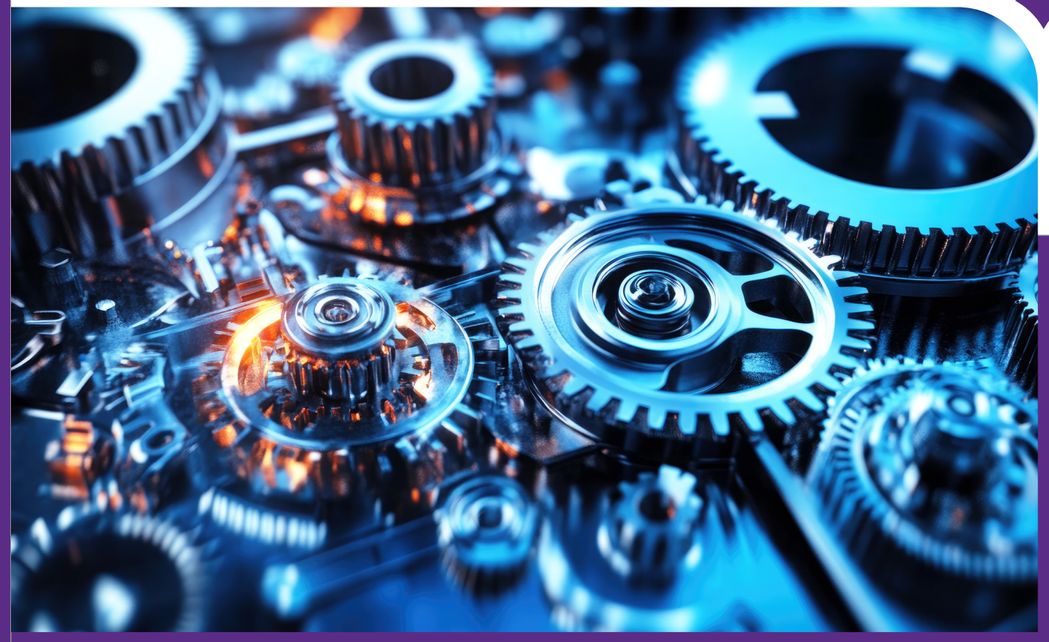
GH raisoni COLLEGE | Engineering and Management Nagpur

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

## Department of Mechanical Engineering



# GEAR UP
# newsletter
## 2024-25

**Volume : XIV, Issue : I**

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Department of Mechanical Engineering

# GEAR UP

AY 2024-25

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## 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 student's 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 (ODD 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 (ODD 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

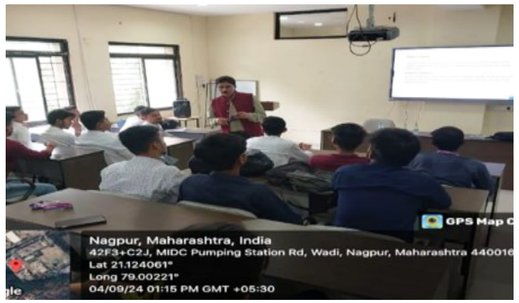
# Editorial Board

**Dr. Manish Gupta**
**Dr. Nilesh Kanojiya**

**Suraj P Mankar,** 7th sem
**Mayur P Dandekar,** 7th sem
**Rachit S Thulkar,** 5th sem

# Major Events / Dept. Activities

## Experts / Guest Lecture













Expert Lecture on the topic “Machine Design” under the course “Product Design” for all the B. Tech. students on 4th Sept. 2024 by Dr. Mangesh Kotambkar, Associate Professor at VNIT Nagpur.





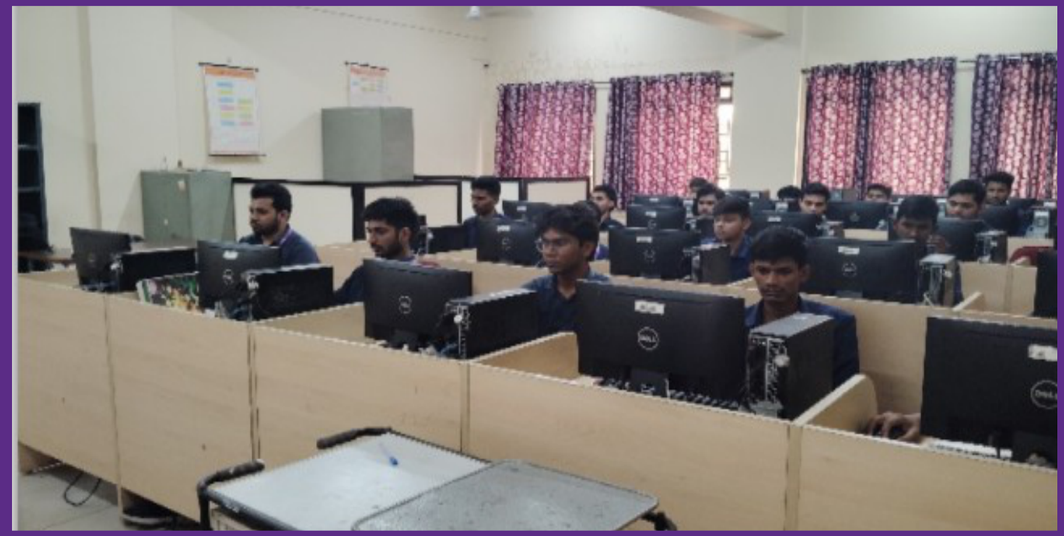

Expert Talk by Dr. D. P. Agrawal, Former Chairman of UPSC on “UPSC Exam: Insights and Advice” for B. Tech 5th & 7th semester students on 2nd Sep, 2024.



## Skill Training Programme / Workshop For Students







**Value Added Course**
5 Days “Hands on CATIA & ANSYS” for B. Tech Students from 12th -17th August 2024
Conducted by CADD Centre, Nagpur.

## Skill Training Programme / Workshop For Students







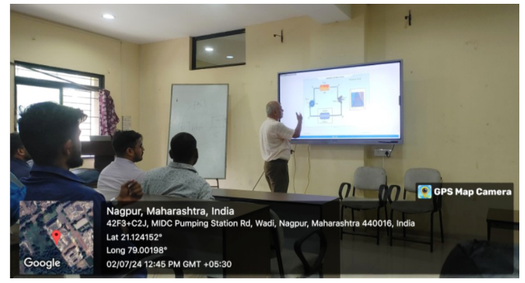


**Value Added Course**
on the topic “Industrial Design”
for B. Tech. 7th semester students from 12th August to 14th August, 2024 (3 Days)
by Mr. Ashutosh Vasant Raole, Product Design Engineer, Ironclad, Dubai, UAE.



## Skill Training Programme / Workshop for Students




5 Days Skill Training Programme / Value Added Course (30 Hrs) on “Power Plant Familiarization” from 2nd to 6th July 2024 Supported by National Power Training Institute (NPTI), Government of India.

## Industrial Visit / Educational Tour




One Day Industrial Visit at “Jaiswal Ice Factory and Cold Storage, Nagpur", for the students of B. Tech. 7th semester on 16th August 2024 under the subject: Refrigeration and Air Conditioning




One Day Industrial Visit at “Koradi Power Plant Nagpur", for the students of B. Tech. 7th semester on 19th July 2024

## Industrial Visit / Educational Tour












One Day Industry Visit/ Education Tour to Central Institute for Cotton Research (CICR) at Nagpur, established by the Indian Council of Agricultural Research (ICAR) for B. Tech 5th semester students on 30th August 2024



## Project Quality Assurance Initiative (PQAI)







"Project Quality Assurance Initiative (PQAI)"
For 7th semester students. Expert was Mr. Rajeshwar Mukunde, Production Engineer, Mahanand Dairy, MIDC Hingna. Total 8 Groups (39 Students) has participated and presented their projects.

## Project Activity

### Experts / Guest Lecture







**Minor Project**
"Final Project Exhibition / Demonstration" for 3rd Semester on 17th Oct. 2024
Under Course Category "Community Engagement Project (CEP)"



## Forum Activity

### Mechanical Engineering Student Association (MESA)






Installation Program of Mechanical Engineering Student Association (MESA) Forum
4th September 2024.

### 3 D Printing Club Activity



At 1st Year Students Induction Program



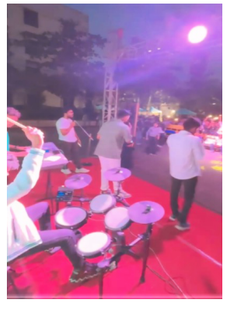

For Civil Engineering Students

### Music Club Activity




At 1st Year Induction Program



At AI Summit-2024

# Extension Activity

## Activities for Students





Extension Activity (Visited Muted & Def. Children's Home)
by Mechanical NSS Unit in Collaboration AK Bagchi Foundation, Nagpur 29th Sep. 2024





Ganesh Utsav Celebration 7th to 17th September 2024





**Sports Carnival**
12th to 14th September 2024 (3 Days)



# Faculty / Students Achievement

## ODD Sem 2024-2025

- **Copyright Submitted**– 03 (Submitted), 01 (Registered)
- **Journal Publication – Under Review 02 (SCI)**
  Faculty Involved – Dr. Ritesh Sambare, Dr. Nilesh C Kanojiya and Mr. Pratik Dhage
- **Patent Submitted/ Granted/ Registered by faculty – 01 (Design-Submitted), 01 (Utility-Submitted)**
  Faculty Involved – Dr. Tejpal C Parshiwanikar, Dr. Nilesh C Kanojiya, Dr. Ritesh Sambare and Mr. Pratik Dhage
- **Funding Proposal Submitted/Granted – 01 (UGC- Submitted)**
  Faculty Involved –Dr. Tejpal C Parshiwanikar
- **Reviewer Certificate – 03 research paper (Elsevier & Springer)**
  Faculty Involved – Dr. Nilesh C Kanojiya and Dr. Ritesh K Sambare
- **Mr. Pratik Dhage invited as an expert under UHV subject** to deliver lecture for 1st year students at Government College of Engineering, Nagpur and Hotel Management Department of GHRSTUN.
- **Registered 21 FDP** (11 Staff), Delivered/Participated as Resource Person in 10 FDP (6 Staff), Organized/Attended through AICTE, NPTEL, IITs, Govt. Institutes, and Private Institutes.
- **Smart India Hackathon,** State level Event, from 11th December to 15th December 2024. 10 students participated.
- **Avishkar 2024-25,** National Level Event, from December 24th & 27th December 2024, 05 students participated.