RAISONI GROUP
a vision beyond

G H RAISONI INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
Accredited by NAAC with A+ Grade

Engineering | Management | Law | Schools | Other Courses

RAISONI GROUP OF INSTITUTIONS

NAGPUR ■ PUNE ■ JALGAON ■ AMRAVATI ■ CHHINDWARA

RAISONI GROUP
a vision beyond

G H RAISONI INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

Accredited by NAAC with A+ Grade

Department of Mechanical Engineering



GEAR UP

NEWSLETTER

2022-23

Vol. X, Issue I

GEAR UP
NEWSLETTER
2022-23

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	14
10.	Extension Activity	18
11.	Faculty / Students Achievements	19

Vision and Mission of Institute

Vision of the Institute

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 of the Institute

MI 1 : Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stakeholders.

MI 2 : Our strength is directed to create competent professionals.

MI 3 : Our endeavor is to provide all possible support to promote research and development activities.

Vision and Mission of Department

Vision of the Department

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 of the Department

MI 1 : To impart quality teaching–learning and assessment process that ensures attainment of program outcomes

MI 2 : To provide quality, innovative, and industry-relevant education that develops competent and professional mechanical engineers with strong fundamentals and problem-solving skills.

MI 3 : 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 Institute of Engineering & Technology, Nagpur (GHRIET) is 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. GHRIETN has made its mark in the world of education by enlightening minds and empowering ambitions.
- GHRIET 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



Dr. Vivek Kapur
Director, GHRIET Nagpur

Dear All,

Greetings from the Director's Office!

I am pleased to know that Mechanical Engineering Department has published the Newsletter Newsletter 2022-23 (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.

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 GHRIET 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



Mr. Tejpal C Parshiwanikar
HoD, ME, GHRIET Nagpur

It's a matter of great satisfaction to bring forth the newsletter of the Mechanical Engineering Department for the session 2022-23 (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.

Advisory Board

Dr. Vivek Kapur
Director, GHRIET, Nagpur

Mr. Tejpal C Parshiwanikar
HoD, ME Dept, GHRIET, Nagpur

Mr. Nilesh C. Kanojiya
ME Dept. Academic Incharge,
GHRIET, Nagpur

Editorial Board

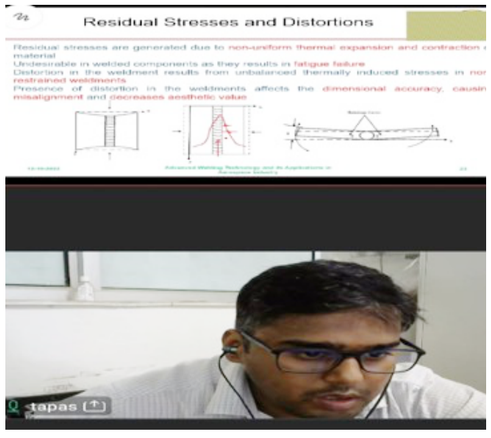
Mr. Ritesh Sambare
Anshul Shailesh Sarade (7th sem)
Anurag Walke (7th sem)
Krishna Kiritkumar Sedani (5th Sem)

Major Events / Dept. Activities

Experts/ Guest Lecture



Expert Lecture on “Gyroscopes” by Dr. Nitin Lautre, Assistant Professor, VNIT, NAGPUR on 16th Oct. 2022





Expert Lecture on “Advanced Welding Techniques” by Dr. Tapas Bajpai, Assistant Professor, NIT, JAIPUR on 13th Oct. 2022

Experts Seminars/Workshop / Carrier Guidance Programme for Students



Seminar on “Career Opportunities For Engineers and Strategy To Crack Government & PSU Exams” on 25th August 2022 by Engineers Academy, Nagpur.



“Facilities For Startup At G H Raisoni Technology Business Incubator Foundation (GHRTBIF) at GHRCE campus” for 5th and 7th semester students on 23rd august, 2022 by Dr. Abhay M. Khalatkar, Coodinator, G.H. Raisoni Technology Business Incubator Foundation, GHRCE, Nagpur.



Skill development workshop on the topic “Finite Element Method” for B.E. Final Year, 7th Semester students on 01st Nov, 2022 by Mr. Mohit Ghatole, Development Executive, Astral Informatics Pvt. Ltd., Nagpur



Awareness Program on “Universal Human Values” by Mr. Pratik Dhage on 11th Nov. 2022 during Induction Program of First Year Engineering Department of GHRIET, Nagpur

Skill Training Programme / Workshop For Students





5 Days Workshop on “Heating, Ventilation and Air Conditioning” Conducted by Design & Draft Engineers, Nagpur (25th – 29th July 2022)





5 Days Workshop on “Hands on CATIA & ANSYS” Conducted by CADD Centre, Nagpur (25th – 29th July 2022)

Skill Training Programme / Visit For Students Under MOU











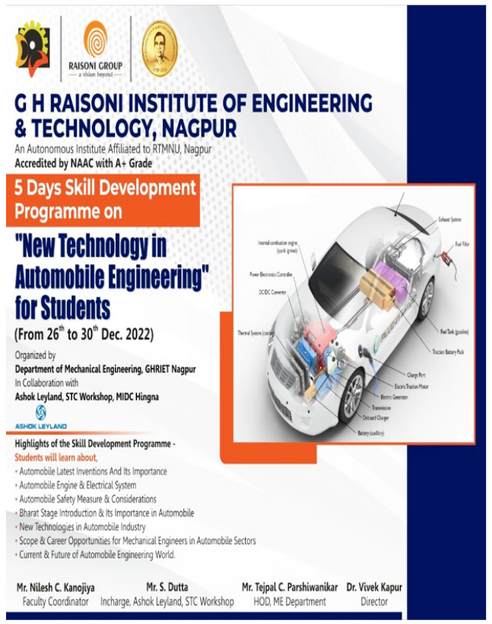


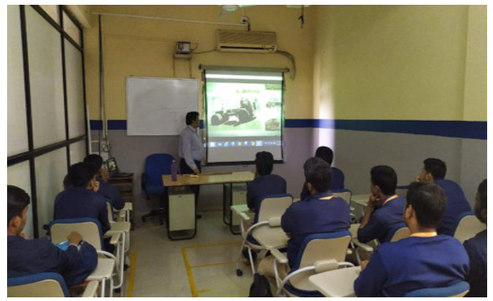
Institute Visit and Skill Training Programme for student & faculty at “Central Institute of Petrochemicals Engineering & Technology (CIPET)”, Chandrapur on 10th , 18th October 2022 and 31st Jan 2023

Skill Development Programme











5 Days Skill Development Programme on "New Technology in Automobile Engineering", for the students of B. Tech. 3rd Year of Mechanical Engineering In Collaboration with Ashok Leyland, STC Workshop, MIDC Hingna from 26th-30th Dec. 2022

Industrial Visit For Students







Industry Visit at Kinetic Gears, MIDC Hingna Nagpur for 5th Semester, on 17th September 2022



Industry Visit at Vishvashanti Udyog Limited Company, Nagpur, for 5th Semester, on 9th September 2022

Forum Activity

Mechanical Engineering Students Association (MESA) Installation Ceremony on 15th Oct. 2022





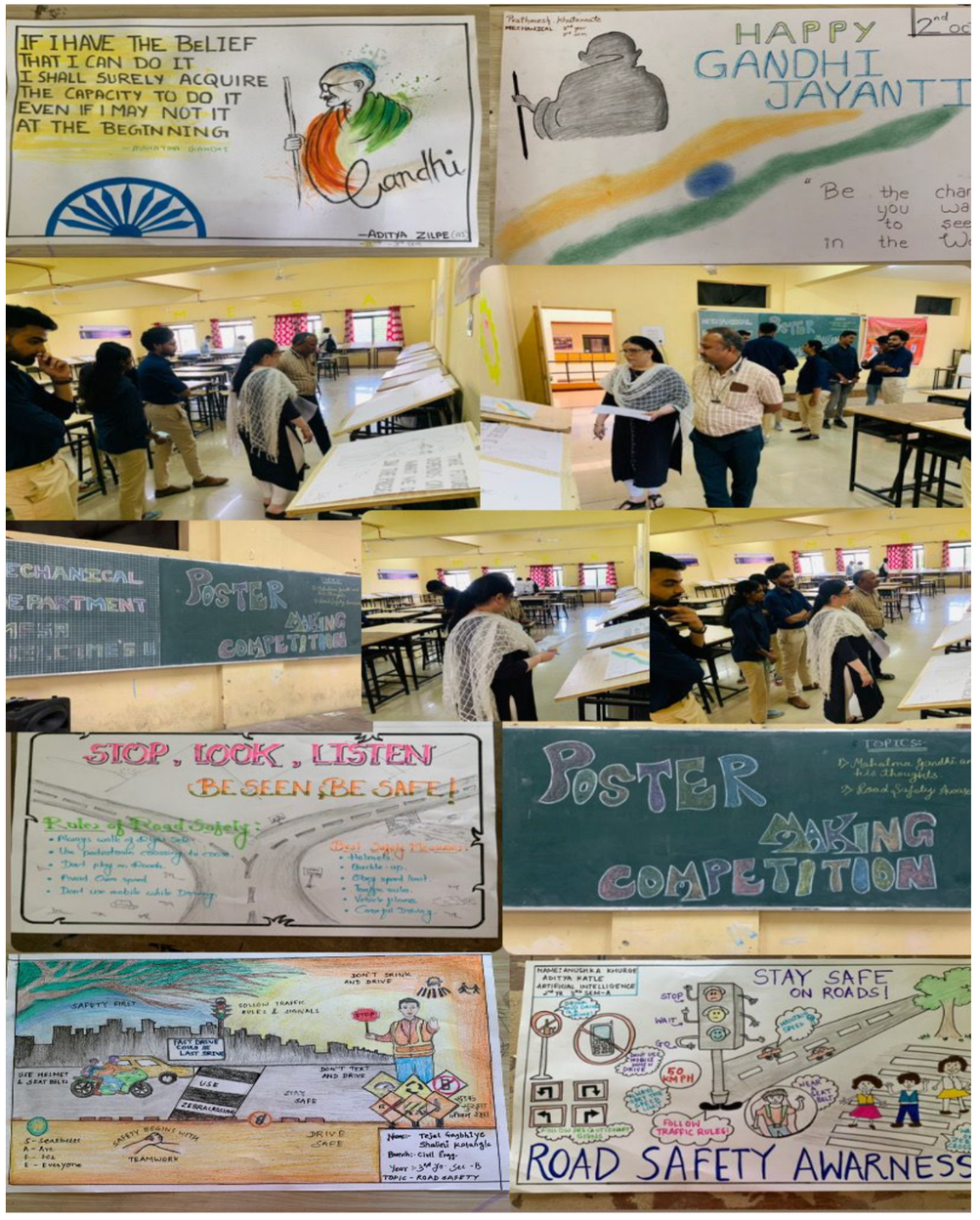








Poster Competition organized by MESA on 15th Oct. 2022



“Quiz & Speech Competition”
Conducted by MESA On 10th Dec. 2022







Music Club Activity









Music Club performance in First Year Induction Program of GHRIET, Nagpur Date: 10/11/2022

Extension Activity





Parents-Teacher Meet



2nd Year Parents Interaction



2nd Year DSY Parents Interaction



3rd Year Parents Interaction



4th Year Parents Interaction

Faculty / Students Achievement

- **Copyright Submitted** – 08
- **Publication – 06 (SCI), 3 (Scopus)**
  Mr. Nilesh C Kanojiya, Dr. Achal S Shahare, Dr. Ritesh K Sambare, Published 02 (SCI) Papers in "Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (T&F, SCI Journal) April 23.
  Dr. Ritesh Sambare Published 4 SCI papers like, at the journal of Process Safety and Environmental Protection etc..
- Mr. Nilesh C Kanojiya, Registered & Copyright for Subject PPT on Heat Transfer (5th Semester Syllabus) of 564 slides.
- Mr. Pratik Dhage, Completed Certificate Course of UHV from AICTE and Received letter of Appreciation from NPTEL.
- Attended 07 FDP/STTP, 5 Workshop, 03 Conference, 04 NPTEL certificate completed, Organized by AICTE, NAAC, NIT, Govt. Institutes, private institutes etc.
- 70 + students has participated in various events conducted by government & private institutions.