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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

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Department of Mechanical Engineering



MAGAZINE

2022-23

MECHNOVA

MECH NOVA

MAGAZINE

2022-23

A SNEAK PEEK INSIDE THIS ISSUE

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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

MI1 : Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stakeholders.

MI2 : Our strength is directed to create competent professionals.

MI3 : 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

MI1 : To impart quality teaching–learning and assessment process that ensures attainment of program outcomes

MI2 : To provide quality, innovative, and industry-relevant education that develops competent and professional mechanical engineers with strong fundamentals and problem-solving skills.

MI3 : 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 students 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 Annual Magazine MechNova 2022-23.

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 magazine 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
Assistant Professor and HoD, GHRIET Nagpur

It’s a matter of great satisfaction to bring forth the magazine of the Mechanical Engineering Department for the session 2022-23. The purpose of the magazine 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 magazine.

CONCEPTUALIZED BY:

Mr. Tejpal Parshiwanikar,
Head of Department,
Mechanical Engineering Department
G H Raisoni Institute of Engineering
& Technology, Nagpur.

EDITORIAL PANEL

Mr. Nilesh Kanojiya
Mr. Ritesh Sambare
Kshitij Sanjay Farkade (6th Sem Student)

Mechanical Department Faculties (2022-23)

Sr. No.	Name	Qualification	Designation
1	Dr. Achal Shahare	Ph. D.	Professor
2	Dr. Arvind Mahalle	Ph. D.	Professor
3	Dr. Manish Gupta	Ph. D.	Assistant Professor
4	Dr. Jay Govind Varma	Ph. D.	Assistant Professor
5	Mr. Tejpal Parshiwanikar	M.Tech,	Ph. D Pursuing Assistant Professor
6	Mr. Nilesh C Kanojiya	M.Tech,	Ph. D Pursuing Assistant Professor
7	Mr. Pratik Dhage	M.Tech,	Ph. D Pursuing Assistant Professor
8	Mr. Ritesh Sambare	M.Tech,	Ph. D Pursuing Assistant Professor
9	Mr. Sumit Karanjekar	M.Tech	Assistant Professor
10	Mrs. Seema Rewatkar	M.Tech	Assistant Professor
11	Mr. Swapnil Sanjay Nishane	M.Tech	Assistant Professor
12	Mr. Prashant Namdeorao Awachat	M.Tech	Ph. D Pursuing Assistant Professor
13	Mr. Shrikant Arunrao Thote	M.Tech	Ph. D Pursuing Assistant Professor
14	Mr. Ajay Mahawadiwar	M.Tech.	Assistant Professor
15	Mr. Kishor Hanumantrao Watane	M.Tech	Ph. D Pursuing Assistant Professor

TOPPERS LIST Even Sem (2022-23)

Toppers According to SGPA

Semester / Section: VIII

Sr. No.	Name of Student	SGPA	CGPA
1	Onkar Barade	7.52	7.56
2	Jatin Kohad	7.52	7.33
3	Shikhar Gupta	7	7.45

Semester / Section: VI

Sr. No.	Roll No.	Name of Student	SGPA	CGPA
1	202210279047013	Shruti N Moon	8.35	8.3
2	2022102790474460	Yuvraj N Patre	8.3	7.86
3	2021102792887240	Sameer J Naik	8.17	7.79

Semester / Section: IV Regular

Sr. No.	Roll No.	Name of Student	SGPA	CGPA
1	202101660097979212	Prathmesh Sunil Khutemate	9.40	9.39
2	20210166009911667	Kunal Gajanan Barve	9.25	8.78
3	20210166009686351	Charushama Deorao Meshram	8.35	7.94

Semester / Section: IV (DSY)

Sr. No.	Roll No.	Name of Student	SGPA	CGPA
1	14	Mayur Prakash Dandekar	9.9	9.65
2	18	Suraj Prakash Mankar	9.65	9
3	9	Hashim Sakir Sheikh	9.40	9.00

TOPPERS LIST Odd Sem (2022-23)

Toppers According to SGPA

Semester / Section: V

Sr. No.	Roll No.	Name of Student	SGPA	CGPA
1	2021102792887240	Sameer Jagdish Naik	8.80	7.71
2	1	Bhavika Ajay Bhotmange	8.68	7.78
3	3	Shruti Nandulal Moon	8.56	8.28

Semester / Section: III

Sr. No.	Roll No.	Name of Student	SGPA	CGPA
1	216	Mayur Prakash Dandekar	9.4	9.4
2	215	Manthan Ravindra Mandwe	8.65	8.65
3	211	Hashim Sakir Sheikh	8.60	8.60

Semester :VII

Sr. No.	Name of Student	SGPA	CGPA
1	Onkar Barade	7.62	7.62
2	Jatin Kohad	7.12	6.9
3	Rajat Paunikar	6.88	6.66

Semester / Section: III

Sr. No.	Name of Student	SGPA	CGPA
1	Kunal Gajanan Barve	9.10	8.61
2	Prathmesh Sunil Khutemate	9.05	9.39
3	Charushama Deorao Meshram	7.65	7.79

MESA Student Members List 2022-23

Sr. No.	Post	Name of Student
1	President	Ms. Anjali Khobragade (Final Year)
2	Vice-President	Mr. Samyak Raisoni (Final Year)
3	Secretary	Mr. Krishna Sedani (Third Year)
4	Treasurer	Mr. Premkumar Tickule (Final Year)
5	Technical Event In Charge	Mr. Madhav Chatte (Third Year)
6	Cultural Event In Charge	Mr. Sahil Khotangale (Third Year)
7	Sports In Charge	Mr. Bhushan Selokar (Third Year)
8	Discipline In Charge	Mr. Dnyanesh Bidkar (Third Year)
9	Speaker	Mr. Swetal Sawrkar (Third Year)
10	Girls Representative	Ms. Bhavika Bhotmange (Third Year)

Major Events

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





Expert lecture on the topic “Analytical Modeling of Vibration Analysis of Rectangular Plates” under the course “Dynamics of Machines” for B.Tech. 4th, 6th and 8h semester students on 13th March, 2023 by Dr. Prasad V. Joshi, Assistant Professor, IIIT Nagpur.



Seminar on “CAD/CAM Software’s & its Industrial Importance” by Central Institute of Petrochemicals Engineering & Technology, Chandrapur, Govt. of India at GHRIET, Nagpur on 06th Feb, 2023.



Guest Lecture on “Student membership in professional societies” by Dr. Ashish Raut from GHRCE, Nagpur.

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



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



“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

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











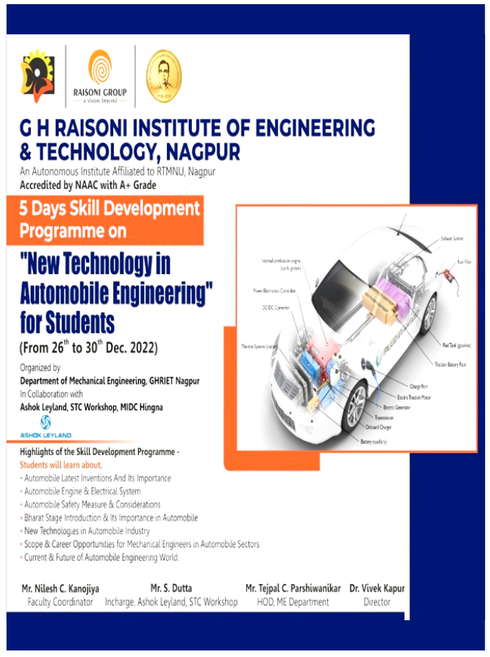


Institute Visit and Skill Training Programme for student & faculty at “Central Institute of Petrochemicals Engineering & Technology (CIPET)”, Chandrapur on 10th , 18th October 2022 and 31st Jan 2023

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

Industrial Visit





Industrial Visit at “Ashok Leyland Ltd. Bhandara Manufacturing Plant", for the students of B. Tech. 6th semester of Mechanical Engineering in Collaboration with Ashok Leyland, STC Workshop, MIDC Hingna on 28th Feb. 2023.

Alumni Interaction





Alumni Interaction on “Opportunities in Mechanical Engineering” for B.E. 2nd year, 4th Semester students on 13th March, 2023 by Mr. Amit gajanan bopche, Jr. Consultant, Infosys, Delhi.

TECHKRUNCH -2023





Organized “MECHTECHNOFEST” Under Techkrunch - 2023 Ashwamedh Project Competition, Paper Presentation, Design Making Competition, Aroham Quiz Competition and Best out of Waste Competition on 28-29th March 2023. Total 358 students were participated

T&P Activities For Students



Training and placement orientations workshop for Students on April, 23rd, 2023



One day workshop on “Worldwide Prospects in Ginning Industries” organized at The Institution of Engineers (IEI) in association with Bajaj Steel Industry, Nagpur on April, 18th, 2023













“Poster Competition”



organized by MESA on 15th Oct. 2022

“Quiz & Speech Competition”







Conducted by MESA On 10th Dec. 2022

3 D Printing Club Activity









Music Club Activity









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

Parents-Teacher Meet





HOD-Parents Interactions



2nd Year Parents Interaction



2nd Year DSY Parents Interaction



3rd Year Parents Interaction



4th Year Parents Interaction

Faculty Achievements

- 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. Ritesh K Sambare Awarded Ph.D from NIT Raipur and Published 04 SCI Papers.
- Mr. Pratik Dhage, Completed Certificate Course of UHV from AICTE and Received letter of Appreciation from NPTEL.
- Attended 08 FDP/STTP, 3 Workshop, 02 Conference, 01 NPTEL certificate completed, Organized by AICTE, NAAC, NIT, Govt. Institutes, private institutes etc.
- CE, Nagpur.
- 90 + students has participated in various events conducted by government & private institutions.
- Samyak Raisoni, Pushkar Madamwar, Sachin Ballewar, Shubhayu Sarve (8th sem.) Received best project award of cash prize Rs. 1000/- in Techkrunch 2023
- Saurabh Diwe (8th sem.) won paper presentation award & cash prize Rs. 1000 /- in Techkrunch 2023
- Prathmesh kuthemathe (4th sem.) won 2nd prize on design making competition in Techkrunch 2023



