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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 Civil Engineering



NEWSLETTER 2023-24

Vol. I, Issue II

Department of Civil Engineering

NEWSLETTER 2023-24

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Vision and Mission of Department

Vision of the Department

- Our aim is to impart excellent education and to develop technical skills which help to enhance their confidence to take the challenges of upcoming technologies in Civil Engineering and inculcate the culture of social responsibility.

Mission of the Department

MD1 : To provide a conducive teaching–learning environment that nurtures conceptual understanding, critical thinking, and lifelong learning among Civil Engineering students.

MD2 : To promote professional ethics, leadership qualities, teamwork, and continuous professional development through industry interaction and experiential learning.

MD3 : To nurture competent and skilled Civil Engineering graduates with strong technical knowledge and research orientation to address social and infrastructural challenges.

Programme Educational Objectives (PEOs)

The educational programme objectives of the civil engineering program are designed to produce skilled engineers who are ready to contribute effectively to the advancement of civil engineering profession and are ready to handle the challenges of the profession.

They shall be able to:

PEO-I : To prepare students to succeed in employment/profession and/or to pursue post graduate and research educations in Civil Engineering in particular and allied Engineering discipline in general.

PEO-II : To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to formulate, analyse and solve engineering problems requiring knowledge of Civil Engineering.

PEO-III : To prepare students with engineering breadth to analyse and design to contribute in providing solutions related to multidisciplinary real-life problems.

PEO-IV : To inculcate in students professional and ethical attitude, effective communication skills and teamwork to become successful professionals.

PEO-V : To provide students with an academic environment that makes them aware of excellence and lifelong learning in emerging technologies.

Program Specific Outcomes (PSO)

PSO 1 : To enhance the technical ability in planning, analysis, design and maintenance in the field of civil engineering to become a competent & professional Civil Engineer.

PSO 2 : To enhance the technical skills for dealing and execute the various advanced technologies in Civil Engineering.

PSO 3 : To enhance the quality of material to be used in the field of civil engineering as an eco-friendly material.

Programs Outcomes

1. **Engineering Knowledge:** Apply to 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 principles of Mathematics, Natural Sciences, and Engineering Sciences.
3. **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.
4. **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.
5. **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.
6. **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess Societal, Health, Safety, Legal and Cultural Issues, and the consequent responsibilities relevant to professional engineering practice.
7. **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
9. **Individual and Teamwork:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
10. **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.
11. **Project Management and Finance:** Demonstrate knowledge and understanding of 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.
12. **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.

Chairman's Message



Shri Sunil Raisoni
Charman, RGI

Innovation is the cornerstone of progress in today's world. At RGI, we are dedicated to continually evolving our educational programs to ensure they remain relevant to our students, industry partners, and stakeholders. Our primary goal is to enhance student employability by offering an enriching experience that equips them to face future challenges. By actively collaboration with the corporate sector, we aim to open up diverse opportunities for our students, ensuring they are well-prepared for successful careers.

Our vision is for GHRIET to play a pivotal role in shaping tomorrow's leaders, cultivating individuals who will make a global impact. We are committed to providing the nation with highly trained, inquisitive minds who are persistent in transforming both their own lives and those of their organizations, contributing to national progress. We wish our graduates every success in their future endeavors.

Director's Desk



Dr. Vivek Kapur
Director, GHRIET Nagpur

It gives me immense pride to see the growth of our Civil Engineering Department. In an era where data drives innovation and progress, our department continues to shape bright minds into future leaders of technology. I deeply value the efforts of our faculty and the enthusiasm of our students, whose combined dedication makes this department a true center of excellence. May this magazine reflect your creativity, knowledge and passion, inspiring many more milestones ahead.

HOD's Message



Dr. Mahesh V Raut
HOD, Civil Department

Our Civil Engineering Department has always strived to blend knowledge with innovation, creating an environment where students can explore, learn, and excel. It is truly inspiring to witness their passion and creativity reflected in this magazine. I congratulate the faculty and students for their hard work and dedication and I am confident that the department will continue to achieve greater heights in academics, research and industry contributions.

Advisory Board

Patrons

Shri. Sunil Raisoni
Chairman, RGI

Dr. Vivek Kapur
Director, GHRCEMN

Dr. Mahesh V Raut
Head of Department

Editorial Board

Dr. Vijaya K Kotapati
(Editor)

Vinay Chavhan
(Editors in Chief)

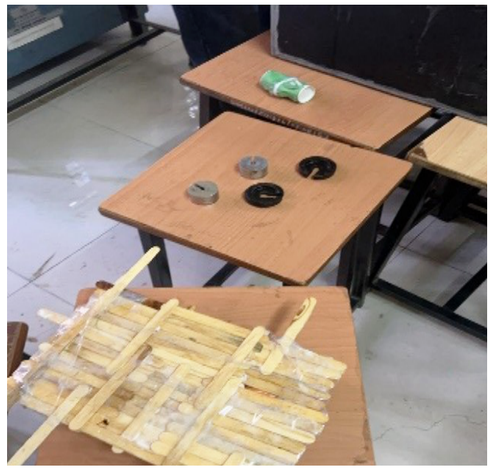
Payal Bharti
(Technical Session)

Float on-Konstruct

On January 17th, 2024, G.H Raisoni Institute of Engineering and Technology organized the captivating event "Float On." Geared towards testing participants' observational and analytical prowess, the event centered around constructing a prototype of a floating module.

"Float On" provided a unique platform for students to apply theoretical knowledge and hands-on skills in a real-world context. Assembling buoyant materials and designing a stable structure demanded meticulous planning and execution.









Human Ludo Event

THE HUMAN LUDO EVENT was held on 16th February 2024 from 11:30 am to 4:30 pm. Under this event, Students had participated in the groups, 4 students were mandatory in each group. There are 2 rounds; in the first round 20 boxes are plotted on badminton court. Out of which some boxes are safe, & in some boxes, there are different types of tasks which had to be performed by the team member.

A total of 20 Groups (80 Students) participated in the event to make it more interesting and fun.





Civista Forum

Find The Bug Competition

This event was held on 19th January 2024 from 12-5 PM. The event was successfully conducted by the department of Civil Engineering. We reached our goal of having a great competition in the event of Find the Bug Competition and we were excited about welcoming student volunteers. Overall, the feedback we received was overwhelmingly positive, with 100 percent of participants commenting favorably on the experience.



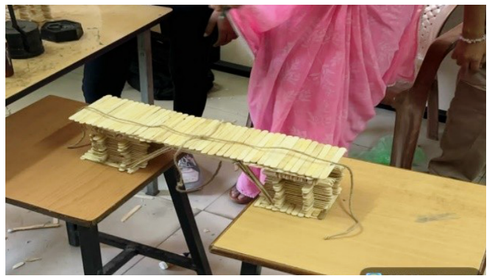






Bridge Making Competiton

On the 16th of February 2024, the Civil Engineering dept. hosted an intriguing event titled " BRIDGE MAKING COMPETITION." The competition aimed to test engineering skills and creativity. The Bridge Making Competition took place on 16 February 2024 with great enthusiasm and participation from 04 teams. The competition aimed to test the engineering skills, creativity, and problem-solving abilities of the participants in designing and constructing bridges using limited resources.





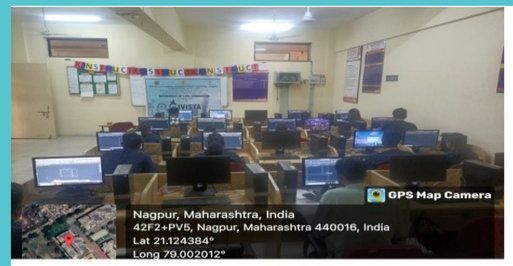
Tresure Hunt



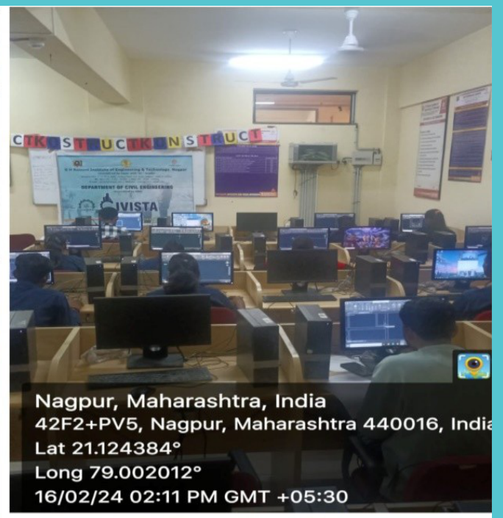


The Treasure Hunt event held by Civil Engineering department was an exhilarating and intellectually stimulating inter-departmental affair. From 12:00 PM to 5:00 PM, students and faculty alike were immersed in a series of challenges, puzzles, and clues that tested their problem-solving skills and teamwork. Toal 26 groups from various department participated, each group had 4 members which makes it 104 participants. Mr Umar Shaikh and team was the 1st winner while Shivanshi Modak and team from 6th semester Civil Department were Runner-up of the event.

CADANCE









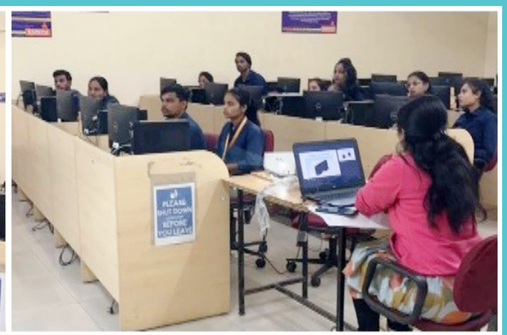
CADANCE was held on 16th of February 2024 from 2:00pm - 6:00pm. The event was inaugurated by Honorable Director Sir, Deans and HOD's of different Departments.

Skill Training

Staad Pro

Skill training on “Staad Pro” was conducted by the Department of Civil Engineering for third-year students on 20th January 2024 in offline mode at MAS Lab (B-210). The speaker was Ms. Priyanka Kawale, Astral Informatics. Madam has a total of 3 years of software teaching-learning experience. The Skill Training Program was organized by Ms. M. R. Jain.







AutoCAD Software

The Department of Civil Engineering, organized a Four-Day Skill Training Program (Hands-on training) on "AutoCAD Software" for second year students of section A dated on 15/01/2024 & 16/01/2024 (Batch-1) and 17/01/2024 & 18/01/2024 (Batch-2) (Time: 10:15 am to 12:15pm) by the trainer Mr. Vikky Chavhan from Pyramid Designer, Nagpur.

All students of 4th semester attended the Skill Training Program. Overall, the session was excellent. The students can develop an architectural plan and learn other features of AutoCAD software which is beneficial for the students of Civil Engineering.



Content Beyond Syllabus

Estimate of residential building using MS Excel

Content Beyond Syllabus was conducted by Dr. Monika Jain for the subject ‘Estimating and Costing’ for 3rd-year (Sec A) on 27th February 2024 in offline mode in regular lectures slots at B-2-03. A total of 55 students attended this class. Students have learned to use MS Excel for estimating residential building estimates and inputting variables for accurate calculations. Excel's functions allow for systematic analysis, adapting to market fluctuations for improved accuracy. It also enables the generation of reports and visual representations, aiding informed decision-making in construction projects.





G 20 Summit

Lecture was conducted on 22nd March 2024 for 6th Sem Civil Engineering Students From 12.20 PM to 1:15 PM, The topic discussed in the lecture was 'G-20 SUMMIT HELD IN NAGPUR INDIA'. Students were curious about the preparations and changes in Nagpur city which they experienced last year, on this background it was great opportunity to make them aware about the agenda and outcomes of the G-20 MEET and its relationship with Environmental protection. Overall session was great and enriching experience for the students. Total 40 students benefited from the lecture.





Cable & Suspension Bridge





Civil Engineering Department organized Content beyond Syllabus on the topic "Cable & Suspension Bridge" for 4th semester section A students on 20th April 2024 for the subject "Structural Analysis". The student found the topic very interesting. Students were able to understand the concept and application of making Cable & Suspension Bridge in the construction sector.

Expert Lecture

Lateral Torsional Buckling of Laterally Unsupported Steel Beams

The Department of civil Engineering organized an Expert lecture on "Lateral Torsional Buckling of Laterally Unsupported Steel Beams" for 6th semester students on 14/03/ 2024 at offline mode. The guest speaker was Dr. A. P. Khatri, Assistant Professor, VNIT Nagpur.





Understanding Human Values

The Department of civil Engineering organized Expert lecture on "Understanding Human Values" for VI-semester students at offline mode. The guest speaker was Pratik Daghe. The lecture was very informative and a good experience for the students, and he answered all queries put up by the students to their full satisfaction. Total 45 students attended expert lecture.



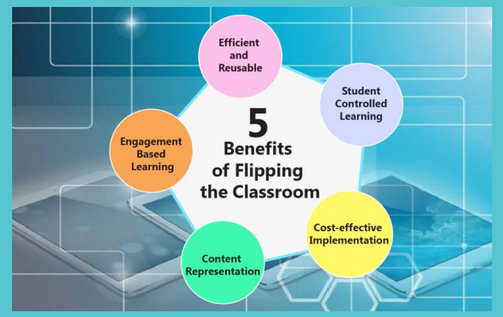


Flip Teaching

Integrated Solid Waste

Flip Teaching was conducted on 23rd March 2024 for 6th Sem Civil Engineering Students From 4.40 PM to 5:30 PM, The topic discussed in the lecture was 'Integrated Solid Wate Management'. Students were ready with their study regarding the topic and discussed issues with faculty.





Workshop

Building Information Modelling (BIM)

On 29th Feb 2024, a workshop on Building Information Modelling (BIM) was organized for UG students of Civil Engineering department to know the latest trends in the construction Industry.

BIM software module has excellent patronage by the Civil Engineering industry. To make the students of successive batches industry ready, institute had planned this Workshop. Admire Tech Vision, Nagpur was the agency that imparted this BIM to the students.



Inauguration Function of ICI student chapter

On 12th Feb 2024, Department of Civil Engineering witnessed a remarkable Inauguration ceremony of ICI student chapter at B-1-10 Dr. APJ Abdul Kalam. Indian Concrete Institute is one of the leading professional bodies in India, catering to the professional needs of individuals and organizations involved in Concrete. ICI is focused towards advocating the concept of sustainability in construction practices. Many of the ICI events are focused on achieving sustainability through innovative materials and techniques.















STTP/WORKSHOPS/FDP Details

Sr. No	Faculty Name	Name of the Event STTP/WORKSHOP/FDP	Duration of Event	STTP/FDP WORKSHOP/	Organised By
1.	Dr. Vijaya K Kotapati	Disaster Management	1st – 5th April, 2024	STTP	G H Raisoni College of Engineering, Nagpur
2.	Dr. Vijaya K Kotapati	How to Write & Publish Research Papers	12th – 18th January, 2024	FDP	Hi Learn Edutech Institute, Karnataka
3.	Dr. Vijaya K Kotapati	High Performance Computing in Engineering Application (HPCAE-2024)	28th Feb – 3rd March, 2024	WORKSHOP	NIT Warangal
4.	Ms. Deepa Telang	Generative AI & It's Applications	05th – 10th February, 2024	FDP	G. H. Raisoni Institute of Engineering & Technology, Nagpur
5.	Dr. Ashok Amgoth	Commentary IS:456-2000 with expected Modifications in the	12th January, 2024	STTP	NITTTR -Kolkata