G H RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY, NAGPUR

DEPARTMENT OF ELECTRICAL ENGINEERING

TECHNOVATION
2023 - 24



Department Vision Mission



Vision

To produce capable graduate engineers with an aptitude and quality for research and leadership.



Mission

- To enhance career opportunities for the Electrical Students through industrial exposure & promote interaction among industry, faculty and students.
- To inculcate sensitivity toward society and a responsibility towards environment
- To achieve excellence in learning and research through continual improvement in both content and delivery of the academic programs.
- To provide opportunities and ensure regular Skill Upgradation of Faculty, Staff and Students through training programs.



Published By

Electrical Engineering Department

(Accredited by NBA)

G H Raisoni Institute of Engineering & Technology, Nagpur.

Conceptualized by

Dr. Bhupendra Kumar

Head of Department,

Electrical Engineering Department,

Coordinated By

Prof. Avinash Welankiwar

Assistant Professor and Editor

Electrical Engineering Department

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RAISONI GROUP
a vision beyond



Mr. Sunil Raisoni
Chairman RGI



Mrs. Shobha Raisoni
Patron RGI

Innovation is the key to the progress in the modern world. In our pursuit of excellence. we are constantly striving to upgrade newer areas of education to make our programs.more relevant to the students, firms and stakeholders. Our prime aim is to enhance.the employability of students. We endeavor is to provide a rewarding experience for the students so that they can meet the challenges and demands of the corporate world and society through successful careers. As we have embarked on our journey

we seek the active association of the corporate world to partner with us for the various opportunities. Our dream is that GHRAET should play a definitive role in shaping the careers of tomorrow's leaders and develop individuals who can impact global development. We wish to provide to the nation good quality trained human resources having inquisitive minds and persistence to change their own and organization's lives and contribute for Nation building. We wish a successful career to our graduates.

Director's Message



Dr. Vivek Kapur
Director, GHRIET, Nagpur

G H Raisoni Institute of Engineering & Technology strives to provide a learning environment and best-in-the-class resources to create the finest Engineers. The world of innovation and technology is rapidly altering. Thus, it is the need of the industry that the educational institutes continue to update and upgrade. This is exactly what is pursued at our college. In order to embark on the journey of success preparation, foresight and strategies are required. The GHRIET will always be the establishment of edification, innovation and promising knowledge for our students. We have the state of art infrastructure. It, mingled with the highly qualified experienced teachers, well planned curriculum, Outcome Based Education and excellent facilities has made sure to aid students in becoming knowledgeable and skilful Engineers in the past and for the future to come.

HOD's Message



Dr. Bhupendra Kumar
Head of Department, Electrical Engg.

With immense pleasure, I invite you to read and flip through the Edition 2023 of “TECHNOVATION”, the Department Magazine of Electrical Engineering Department of G H Raisoni Institute of Engineering and Technology, Nagpur. With this edition it feels like the department magazine has finally found its niche within and beyond the department's community. It shall add value to the readers mind, it will provide with the right insights to the student's and faculties academic and career ease. The purpose of this magazine is to enlighten, engage, inspire, and entertain a wide range of readers, including alumni, parents, students, teachers, staff, and other college friends, by presenting engaging tales that provide a compelling, relevant, and honest image of the department and its kinship. Each issue of “TECHNOVATION” is a milestone that marks our growth, unfolds our imagination, and gives life to our thoughts and aspirations I congratulate the entire “TECHNOVATION” Team on their devotion and hard work in bringing this editions to life.

Editorial's Message



Mr. Avinash S. Welankiwar
Assistant Professor & Editor Technovation Magazine

Bringing out 'TECHNOVATION' has been quite an experience! This editorial is a real different one with no grievances and no senti-sentences and the credit goes to 'TECHNOVATION' team. A new venture with totally inexperienced team was a special challenge for us and I hope we succeeded to some extent. I would also take this opportunity to thank Dr. Vivek Kapur sir Director, GHRIET, and Dr. Bhupendra Kumar, HOD, EE department who have been there to guide me all through this effort. How can I forget my team!! I must say you guys are phenomenal. Now I pass the parole to the magazine, let the magazine speak for itself. HAPPY READING

Student Coordinator



Mr. Himanshu Narad
5th Sem. Electrical



Ms.Samisha Bahadure
3rd Sem. Electrical

Profile of the Department

Year of establishment: 2009

Degree	Program	Sanction Intake	Year of Start
Bacher of Engineering (B.E.)	EE	60	2009

Present Strength of Student (2023- 24)

Program	Girls	Boy	Total
Bacher of Technology (B.Tech)	49	142	191

Present Strength of Staff (2023-24)

Teaching		Non-Teaching	
Male	Female	Male	Female
10	01	06	01

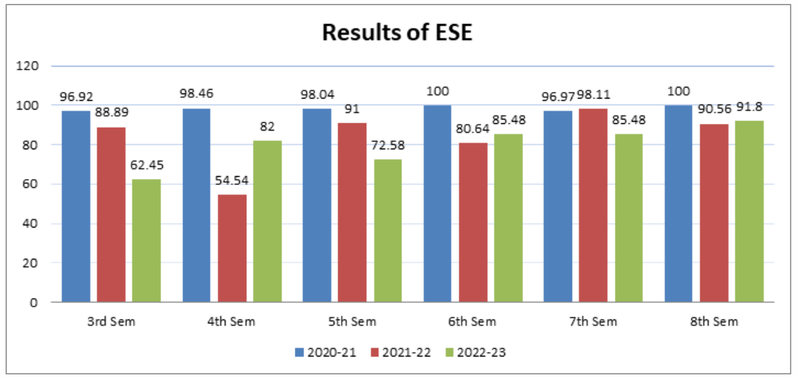
About Electrical Engineering Department

The objective of the Department is to impart Quality Education and Competitive Training that can make students as Professional Engineers who are ready to meet the needs of the industry as well as society and adapt to the rapidly changing technology in various areas of Electrical Engineering.

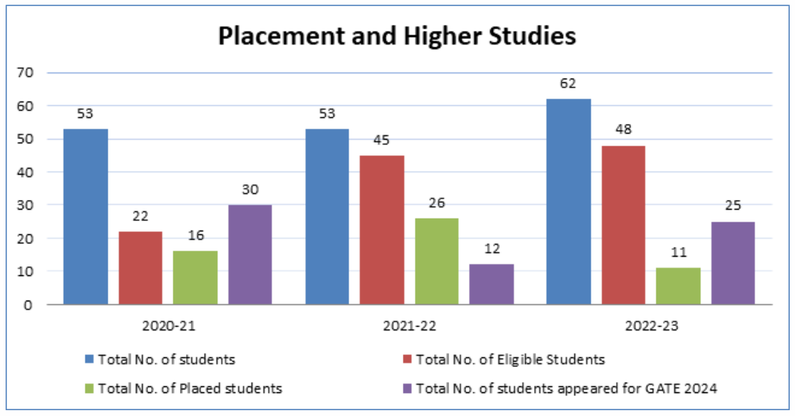
The Department has well-qualified and experienced faculty members with specialization in Electrical Machines & Drives, Power Electronics, Power System, Control Systems, and Renewable Energy. The Department has dedicated laboratories for academic and research activities. It provides the students with in-depth knowledge in fundamentals and practical applications in Electrical Engineering so that they can pursue their career opportunities.

The Department conducts various Skill Training programs, Workshops, Seminars, and Conferences and also invites renowned academicians from IITs, NITs, IISC & industrial experts to share their knowledge with the Students and Faculty for updating with the latest developments in Electrical Engineering. Department also encourages students to participate in State and National Level project competitions like TECHFEST, DIPEX, etc.

Result Statistics



Placement & Higher Studies Statistics



Departmental Activities

Skill Training Program On "Matlab Fundamentals and Optimization Problems Programming Techniques"





Skill Training Program on “MATLAB Fundamentals and Optimization problems programming techniques” is organized by Dept. of Electrical Engg. from 18th – 22nd July 2023. Expert for this program was Mr. Som Jairaj Ankar, Prime ministers research fellow at National Institute of Technology, Tirruchirapalli, Tamil Nadu. Hands on practices are provided to the students on the topics based on analysis and visualization of vectors, organization and analysis of data, optimization problems, PSO algorithms. 60 nos of students from 2nd and 4th year from Electrical and ETC branch have participated in this program. This activity is coordinated by Dr.Bhupendra Kumar, HoD, EE.

Academic Session 2023-24 Commencement and CR Finalization

Regular classes for Odd semesters 3rd , 5th and 7th has commenced from 19th July 2023 for session 2023-24. CRs for all the semesters have been elected as,

Class/Semester	Name of CR
3rd Sem	1. Ms. Mahi Bhagat 2. Mr. Yash Thakare
5th Sem	1. Ms. Suchita Parise 2. Mr. Nikhil Damale
7th Sem	1. Ms. Arpana Meshram 2. Mr. Shyam Wanjari

Mr. Avinash Welankiwar, Mr. Chetan Kidile and Dr.Tarun Shrivastava are the class teachers appointed for 3rd , 5th and 7th semester classes.

NEP 2020 Awareness Program By Dr. Bhupendra Kumar, HOD, EE





NEP implementation Cell, G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized Awareness Program on “National Education Policy-2020 Implementation and

Prospectives" on 28th July 2023 to celebrate NEP-2020 week. This program is conducted at room number 203, Eklavya Seminar Hall GHRIET Nagpur. 85 Nos. of Faculty members of GHRIET, Nagpur has attended this program. Speaker for this program was Dr. Bhupendra Kumar, HoD, Department of Electrical Engineering. Multidisciplinary engineering curriculum development, provision of multidiscipline minor courses and inclusion of seven verticals into the program is discussed with all the faculty members.

First Year Students Visit to Electrical Engg. Department

Department of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized visit to the department for 1st year Electrical Engineering students on 17th Aug.2023 for session 2023-24. 25 Nos. of Students from 1st year has attended this program. 1st year Students visited Sensors and Control systems lab, Switchgear & protection lab, Network and Power Electronics Lab, Basic Electrical Lab. Students have also visited Center of Excellence Solar Technology Lab. Mr. Avinash Welankiwar during the visit, has described purpose of labs and experimentations to be done in each lab. Students have asked queries and doubts about Electrical Engineering and its prospects, that have been addressed.





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Induction Program For Second Year Students

Department of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized Induction program for 2nd year students for session 2023-24. 60 Nos. of Students from 2nd year has attended this program. Objective of this program is to aware the 2nd year students to various infrastructure, Labs, Forum and Clubs available at the department for their betterment. Mr. Avinash Welankiwar has focused on various academic schemes available at the department for the betterment of students such as Honors, Minor and Grade improvement schemes. He has also focused on Final year project & internship schedules after completing 5th and 6th semester. This activity is coordinated by Mr. Avinash Welankiwar.





Teachers Day Celebration





Dept. of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur has Celebrated Teachers Day on 5th sept.2023 under Flashover Forum. This program is conducted at 401, Dr.Vijay Bhatkar Seminar Hall. 130 Nos. of Students from 3rd, 5th and 7th semesters have attended this program. Students conducted fun activity for the staff "Guess the Song" which is greatly enjoyed by faculty members. Students from FLASHOVER forum committee presented a wonderful department photo frame to all faculty members. This activity is coordinated by Students of FLASHOVER forum.

Flashover Forum Installation



Dept. of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized "Flashover Forum Installation Program" (Student Association) and inauguration of Renewable club and Drama Club on 7th Sept. 2023. This program is conducted at polytechnic Auditorium, Block A. Total 130 Students from 3rd, 5th & 7th semesters have attended this program. Guest of Honor for this program was Er.Milind Pathak, Director Elusun Systems Pvt. Er.Milind Pathak, has interacted & enlightened the students about students development with curricular and co-curricular activities, NEP 2020 and value of time. After that, Batch distribution for forum committee members and Felicitation of session 2022-23 toppers was carried out by the hands of dignitaries present on the dais. After that singing and dance activities were presented by students. This activity is coordinated by Mr.Avinash Welankiwar.

Parents Teacher Meet

The Parents -Teacher Meeting was organized by Electrical Engineering department for 3rd , 5th and 7th semester students on 09/09/2023. The Parent -Teacher Meeting is the great opportunity for the parents and teacher to develop a healthy and strong relationship for the holistic development of student. The Parents are invited to know their ward's progress in academics as well as in other co-curricular activities. Head of department, Class teachers of various classes, subject teachers and parents along with the students of 3rd ,5th sem and 7th sem were present for PTM. The different parameter has been discussed with the parents such as Student's CAE-I result, their monthly attendance, Teacher-Guardian records, Minor and Honor scheme, etc. The different queries of parents and students were also discussed and solved by the concerned class teacher. Parents were also asked for any other suggestions for the improvement of their ward's performance. This Activity is coordinated by Mr.Yogesh Ikhe





"Poster Making Competition" Under Renewable Club

Department of Electrical Engineering in association with IEI student forum and Renewable club On the occasion of engineer's day organized a Poster Making Competition on them Green Energy on 15/09/2023 for students of all branches of G.H. Raisoni Institute of Engineering and Technology, Nagpur, The objectives of this event was with a purpose to bring awareness on a limited source of energy and know-how we can rely on sustainable energy sources Some new ways to get energy for the future. Dr. Arvind Mahalle and Dr. Akhilesh Ugale sir did the evaluation of posters in exhibition based on points such as presentation, relevance to the theme, drawing etc. first position of this competition was secured by Mr.Yash Temburne (3rd sem EE), second prize was given to group. Ms.Trupti Patle and Shafaque Zohara (1st sem AI) and third prize given to Ms. Taniya sarate , Vedanti Bhende , Saloni Ramteke (3rd sem AI). This activity is coordinated by Mr. Yogesh Ikhe





Visit To 400 KV Substation, Khaparkheda, Nagpur



Department of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized visit to 400 kV Substation at Khaparkheda, Nagpur on 16th Sept. 2022. 49 Students from final year, Mr. Avinash Welankiwar and Ms.Vaishali Girghe has attended this visit. Objective of this visit is to aware the Undergraduate students about operation of 400 kV substation and to understand SCADA System Infrastructure. At the beginning, Mr. Amit Chandpurkar, Dy. Executive Engineer, delivered introductory talk on 400 kV substation & regional divisions of MSETCL. Engineers from 400 kV substation has shown and explained the 400 kV switching yard, Power transformers, bus bars, one and half breaker scheme, SCADA ,relay control room, battery chargers and PLCC controls to the students and also elaborated the control, maintenance and testing of Electrical equipments. This activity is coordinated by Mr. Avinash Welankiwar.

Visit to Suguna Foods Pvt. Ltd.





Department of Electrical Engineering in association with IEI student forum organized an industrial Visit to Suguna foods Pvt. Ltd. Hinganghat on 18/09/2023 for students of 7th semester Electrical Engineering , G H Raisoni Institute of Engineering and Technology, Nagpur, The objectives of this activity is to provide an opportunity for students to see and experience real workstations, plants, machines, systems, assembly lines, and interact with highly trained and experienced personnel. This practical learning experience is necessary for students who have to date studied theory only and are unaware of a real production plant's daily workings. The students learn about company policies in terms of production, quality, and service management and acquaint themselves with the working of instruments during the course curriculum. This activity is coordinated by Mr.Yogesh Ikhe.

Ganesh Utsav At GHRIET, Nagpur

Department of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur celebrated Ganesh Utsav at Atrium, main building between 19th to 30th Sept 2023. Students and faculties from Electrical Engineering Department have enthusiastically participated in Ganesh Aarti on 27th sept. and various activities organized.





"Damsharas" - Drama Club Activity

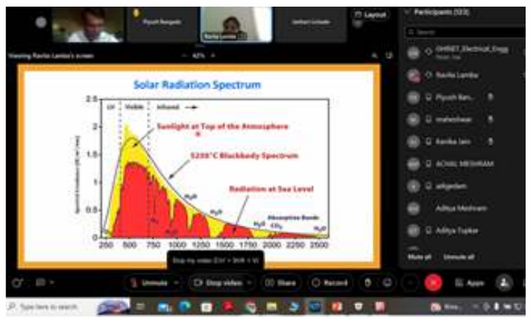
Electrical Engineering Department, G.H. Raisoni Institute of Engineering and Technology, Nagpur organized “Damsharas” on 27/09/2022. The damsharas game is an interesting activity which is played among the teenagers. The group members get excited in finding the answers through actions from the opponent team. Total 13 Groups (Each group consist of 4 students) were participated in this event. Playing make believe encourages imagination and creativity. The groups of Electrical Boys won the first prize and second prize. This activity is coordinated by Dr. Tarun Shrivastava.

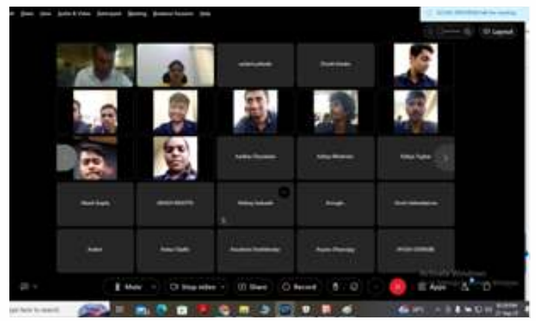




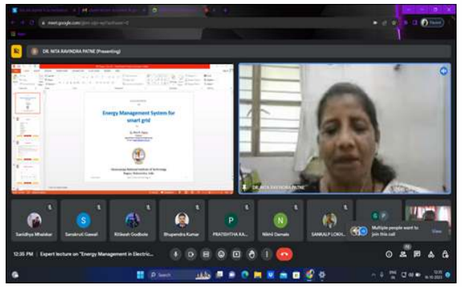
Expert Lecture on "Advanced Technologies for Harnessing Solar Energy"

Expert lecture on “Advanced Technologies for Harnessing Solar Energy” is organised by Electrical Engineering Department on dated 29.09.2023 for the students of Electrical Engineering Department. Program started with the introduction by Mr.Kiran Raut, Assitant professor of Electrical Engineering Department. Dr.Ravita Lamba elaborated about overview of different types of solar cell material used in electrical system and its effect of solar irradiation. In this lecture, expert has focused on the convection, thermonics & ionic techniques used for genration electricity with the solar cell, also equations of energy desnity related to verious types of material used in solar cell are covered . This Activity is coordinated by Mr.Kiran Raut.



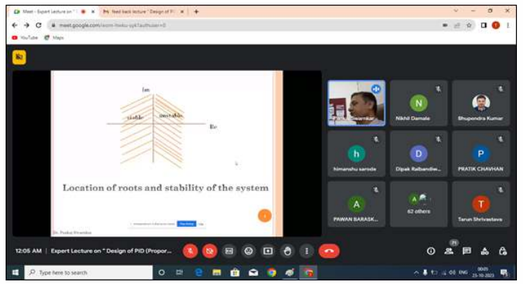


Expert Lecture By Dr. Nita Patne, VNIT, Nagpur



Expert lecture on “Energy Management in Electricity Market” is organised by Electrical Engineering Department on dated 16.10.2023. 53 nos of Students have attended this session. Dr.Nita Patne elaborated about power system configuration, smart grid, power factor, energy demand , stand alone grid, energy management etc. In this guest lecture focused on the multi agent system, priority index and optimization technique like as elephant herding optimization algorithm, swarm optimization optimization used for optimization of the objective function. This activity is coordinated by Dr.Tarun Shrivastava.

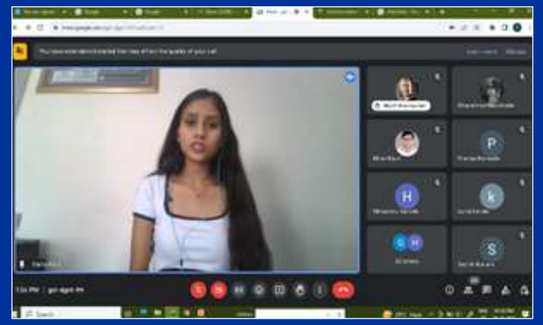
Expert Lecture By Dr. Pankaj Sarvankar, Manit, Bhopal

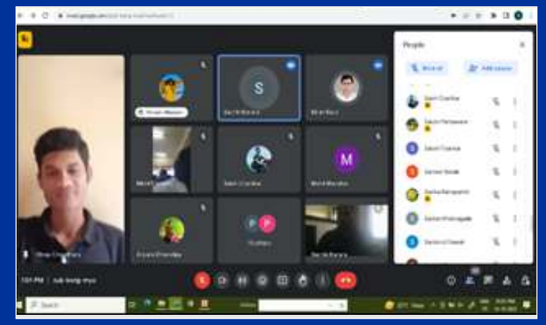


Expert lecture on “Design of PID (Proportional Integral Derivative) Controller” is organised by Electrical Engineering Department on dated 23.10.2023. 80 nos of Students have attended this program. Dr. Pankaj Swarnkar elaborated about open loop system ,closed loop control system, transfer function, and PID controller etc. In this guest lecture he also focused on the tunning of PID controller with offline and online method , Zigler Nichols Method , PID controller in MATLAB , and higher order system. This activity is coordinated by Dr.Tarun Shrivastava.

Students Alumni Interaction

Miss. Disha Raut and Mr.Vinay Choudhary are passed out students from 2023 Batch from Electrical Engineering Department. Ms.Disha Raut is working with Planet Spark as Business Development Associate and Mr.Vinay Choudhary is working with Adani Electricity, Mumbai as an Graduate Engineer Trainee. This interaction is conducted on 14/10/2023 and 28/10/2023. They have interacted with the students on building strong resume, improvement with personality, building confidence. They advised the student not only Academic but also participated in extracurricular activities. Students of 3rd, 5th and 7th semester got benefited with these session. This activity is coordinated by Mr.Sachin Karare.





6-Month Internship orientation Program by Dr. Gurupal Singh, Dean, T & P, RGI Group

Internship Orientation Programme for 7th sem students for 8th sem six Month Industry Internship for Autonomous batches was conducted on 17 oct. 2023 by Mr. Gurupal Singh, Dean T & P, RGI group. He addressed students about the internship process, its assessment and monitoring of students under internship period. This activity is coordinated by Mr.Yogesh Ikhe.





Expert Lecture By Dr. Nitin Ghavghave, GCOE, Nagpur



Expert lecture on “Industrial applications of Electric Drives” is organised by Electrical Engineering Department on dated 20.10.2023 for 5th and 7th semester students. 52 Nos. of students have attended this program. Dr.N.D.Ghawghave in this lecture, focused on the Basics fundamentals aspects of Electrical protection system. He also have highlighted various types of protection relays with conventional and modern trends like numerial relays. He has demonstrated the idealogy of numerical relay based overcurrent protection. This activity is coordinated by Mr.Avinash Welankiwar.

Visit to ALDC, Ambarazi

Department of Electrical Engineering organized an Industrial Visit at Area Load Dispatch Centre, Ambazari Nagpur on 26/10/2023 for students of 5th semester. 30 nos. of Students have attended this visit. In this visit, Mr. Niranjan Dalal, DYEE, introduced students to real time power handling control room were students understood how the incoming power from various power plants in Maharashtra are collected and how the power is transmitted to various locations in Maharashtra by using PLC & SCADA. This activity is coordinated by Mr. Chetan Kidile and Mr. Avinash Welankiwar.





MOU with Maximum Solutions, Nagpur



MoU between Maximum Solutions, Nagpur and Dept. of Electrical Engineering is signed on 17/10/2023 in the immense presence of Mr. Dinesh Nimbalkar, Training Head, Maximum Solutions Nagpur, Dr.Bhupendra Kumar, HoD, Electrical Engineering Department, Dr.Vivek Kapur, Director, GHRIET, Nagpur. Objectives of this MoU is to provide training for PLA anc SCADA and to provide potential oppertunities for placement and internships for students. This activity is coordinated bby Mr.Chetan Kidile.

Visit to YCCE of Energy Literacy Club (ELC.) Members

Visit to YCCE, Nagpur is conduced on 18/10/2023 for the members of Energy Literacy Club. The purpose of this visit is to aware students about equipments required to conduct Energy Audit in industries or commercial installations. Mr.Prasad Joshi, Asst. Prof. Dept. of Electrical Engg., YCCE, has given detailed introduction and exposure to the students about all the instruments for Energy audit. 12 nos of students members of ELC club have attended this visit. Activity is coordinated by Mr.Kiran Raut.





Logo And Tag Line Design Competition Under ELC Club

Logo and Tag line Design Competition Under ELC club is conducted on 09/10/2023 at 4.00 pm at B-424 block. Ideas for the logo design of ELC is discussed amongst the student members. Logo designed by Ms.Dhanashree Wankhede and Mr.Vedant Pahade has been Selected. 12 nos of students members of ELC club have participated in this activity. Activity is coordinated by Mr. Kiran Raut.





One Day Workshop on "Auto-Cad Electrical"

One day workshop on “Auto-CAD Electrical” is organised by Electrical Engineering Department on dated 12-08-2023 and 19-08-2023 for the students of 3rd and 5th semester. Mr. Parag A. Tembuurne, Senior Faculty/Project Engineer Admire Tech Vision LLP, Nagpur in this workshop focused on the Auto-CAD Electrical and elaborate the need of design in eletical engineering also he also introduced about other software like ETAP, PLC SCADA. 100 nos. of students have attended this workshop. This activity is coordinated by Mr.Sachin Karare.





Expert Lecture On "Introduction to Programmable Logic Controllers and Scada"

Expert lecture on “Introduction to Programmable logic controllers and SCADA” is organised by Electrical Engineering Department in association with IEI students chapter of G H Raisoni Institute of Engineering and Technology, Nagpur on dated 17.10.2023 for 5th semester students. Mr.Dinesh Nimbalkar, Training Head , Maximum Solutions Nagpur in this lecture, focused on the basics of PLCs, including their history, architecture, and programming. He also explain the difference between digital and analog signals and how they are used in PLCs, then discuss the role of HMI (Human Machine Interface) and SCADA (Supervisory Control and Data Acquisition) systems in PLCs. This activity is coordinated by Mr.Yogesh Ikhe and Mr.Chetan Kidile.





Student Alumni Interaction

Alumni Interaction is organised by Electrical Engineering Department on dated 06.01.2024 for 6th semester students. Speaker for this session was Mr.Sumedh Ghayal, Electrical Contractor, Supervisor and Properiter at Sumedh Electricals, Nanded, 2019-23 batch Passed Out. This session is conducted in offline mode in 422 Clasroom at block B. He focused on the process of applying for Electrical Contractor and supervisor license. He shared his recent work contracts obtained by MSEB and PWD maharashtra. Students raised various questions regarding work experience, eligibility and work allotment process.This activity is coordinated by Mr.Avinash Welankiwar.





Alumni Reunion "Yaadein - 2024"

Iumni Reunion “Yaadein - 2023” is organized at the GHRIET campus by G H Raisoni Alumni Foundaction on 6th Jan.2024 at 4.00 PM. 52 nos. of Alumni from 2021-22 and 2022-23 passed out batch have attended this program.





NEEV 2024

Annual faculty gathering NEEV 2024 is organized by G H Raisoni Cultural and Sports foundation on 23,24 and 25 Jan.2024. Faculties from Electrical Engg. department have enthusiastically participated in various activities under NEEV 2024.





Energy Literacy Club Activity

“Identification of Equipment's & Costing of Solar Lamp” activity under Energy Literacy club is organised by Electrical Engineering Department on dated 13.01.2024 for the students of Electrical Engineering Department. Mr.Kiran Raut has given task to student to identify the equipments along with their coasting for making solar lamp. Solar lamps are a sustainable and cost-effective lighting solution, particularly for areas with limited grid access. This activity is coordinated by Mr. Kiran Raut.





"ELECTRICA" under TECHKRUNCH 2K24

Dept. of Electrical Engineering, G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized activity “ELECTRICA 2K24” under TECHKRUNCH on 28th and 29th March 2023. Total 120+ students from various colleges in Nagpur have participated in this event. This was the two days state level TechFest. Various activities such as Virtual Campus, Reel Making competition, Paper Weight, Debate Competition, Flash Memory are conducted. Cash prizes of Rs.6000 to winners and Certificates were distributed to paricipants. This activity is coordinated by Mr. Avinash Welankiwar.











4th Visit to Adventure Camp at Saikheda

Students of 4th semester Electrical Engineering Department, G H Raisoni Institute of Engineering & Technology, Nagpur has participated in two days Achievers adventure camp at GHRU Saikheda, from 10th Feb 2024 to 11 Feb 2024. 57 Students from second year along with faculty Mr. Yogesh Ikhe has attended this camp. Objective of this camp is to aware the Undergraduate students about self-defense training, survival skill under the guidance of alumni from armed forces training academies.

Expert Lecture On "Electrical Safety, Electrical Acts and Electrical Licensing Process"

Industry Expert lecture on “Electrical Safety, Electrical Acts and Electrical License Process” was organised by Electrical Engineering Department on dated 13.02.2024 for the students of 4th & 6th smetser of Electrical Engineering Department at 101 Auditorium. Speaker for this session was Mrs.S.P.Urewar, Assistant Engineer, Gr-II, Energy & Labor department of Maharashtra Government. This activity is coordinated by Mr. Kiran Raut.



Guest Lecture on "Introduction to Robotics"

Guest lecture on “Introduction to Robotics” was organised by Electrical Engineering Department on dated 29.02.2024 for the students of 4th & 6th smetser of Electrical Engineering Department. Speaker for this session was Mr. Mangesh Bharti, Director, MDB Electrosoft Pvt. Ltd. Speaker explained in brief, information about purpose of robotics and types of robots. He focused on Robotics design, construction, operation, and use of robots and computer systems for their control, sensory feedback, and information processing using arduino. This activity is coordinated by Mr.Chetan Kidile and Mr.Yogesh Ikhe





MOU Between Dept. of Electrical Engg. and MDB Electrosoft Pvt. Ltd. Amaravati

On 29th February 2024, Department of Electrical Engineering has successfully signed MoU's with MDB Electrosoft Pvt. Ltd. Amaravati. Objective of this MoU is to share technical expertise and student trainings on IoT and embedded systems design for UG students.



Parents Teacher Meeting



The Parents –Teacher Meeting was organized by Electrical Engineering department for 4th and 6th semester students on 11/03/2024. This Activity is coordinated by Mr.Yogesh Ikhe.

Faculty As Resource Person at Skill Training Workshop For Non-Technical Staff

Mr.Kiran Raut and Mr.Chetan Kidile has conducted session on “Energy conservation and Audit” Skill Training Workshop for Non-Technical Staff of GHRIET on 10th Feb.2024 organized by Computer Science Engineering Dept.



Guest Lecture on "empowering Futures: Inspirational Journey From ZP School to University of London, Unveiling Fully Funded Scholarships & Essential Skills For Higher Education In the UK"



Expert lecture on “Empowering Futures: Inspirational Journey from ZP school to university of Landon, Unveiling fully funded scholarships & essential skills for higher education in the UK”was organised by Electrical Engineering Department on dated 14.03.2024 for the students of 4th & 6th smetser of Electrical Engineering Department. Speaker for this program was Adv. Deepak Chatap, SOAS University Landon, Chevening Scholar, Founder & CEO Polilaw network foundation. He has given breif information about Journy from ZP school to university of London in details. He has given basic information of various type of scholarship offered by UK for the aspirant student. He has given details information and told us about procedure for avialing Chevening Scholarship. This activity is coordinated by Mr.Kiran Raut.

International Conference On Advanced Communication, Energy And Big Data - 2024 (ICACEBD - 24)





International Conference on Advanced Communication, Big Data and Energy 2024 is conducted at GHRIET, Nagpur jointly organized by Dept. of Electrical Engg., Electronics and Telecommunication Engineering, Computer Science and Engineering and Data Science Engineering between 15th – 16th March 2024 consisting of various keynote sessions and 07 nos of various tracks which consist of 80 nos. of peer reviewed papers selected for presentation.

Antaragni 2K24





Annual students sports and cultural gathering "Antaragni 2K24" is conducted between 26th to 30th March 2024 at GHRIET, Nagpur. Students of Electrical Engineering has participated in various sports and cultural events under Antaragni 2K24.

Electric Vehicle Developed By Electrical Engg. Department Under Project Seed Money Grant By RGI



Electric vehicle has been developed under a final year project under the guidance of Dr. Bhupendra Kumar, HoD Electrical Engineering Department. This project has received the seed money grant of Rs. 69,492/- from RGI.

Farewell to Final Year Students

Farewell for 2020-24 batch was organised by Electrical Engineering Department on 01.06.2024 for the students of final year of Electrical Engineering Department at B-401 seminar Hall. Various types of games were organized for student in farewell party. Student has given good feedback regarding the academics. This activity is coordinated by Mr.Kiran Raut.



Placement



Pranay Dhakate
Academor
4 to 6 LPA



Pratik Wagh
Academor
4 to 6 LPA



Sankalp Lokhande
Academor
4 to 6 LPA



Sanket Borde
Academor
4 to 6 LPA



Kundan Rangari
Tata Consulting Engg.Ltd.
4 LPA



Akash Gupta
Talent Serve
6 LPA



Achal Bhaladhare
Flash Electronics India
2 LPA



Akash Mahto
Flash Electronics India
2 LPA



Parimal Dongre
Arcelor Mittal Nippon Steel
6 LPA



Mohit Bhamburkar
Flash Electronics India
2 LPA

Student's participation and Achievements:

Sr. No.	Name of Student	Name of Activity	Participation / Achievement
1.	Sanket Borde	YUKTI Innovation Exibition, IIC regional Meet at GHRCE Nagpur	Participated
2.	Vaishnavi Kamble		
3.	Sagar Chopade	Pool table competition ANTARAGNI 2K24	1st Winner
4	Mirza Maroof Baig	Test Your Limit	Runner
5	Suchita Parise	Certificate of Membership of IEI	Participated
6	Suchita Parise	Training on Advance Solidworks	Participated
7	Vedant Pahade	Artificial Intelligence Internship	Participated
8	Vedant Pahade	Workshop on Electrical Vehicle	Participated
9	Vedant Pahade	Startup Mahakumbh 2024	Participated
10	Vedant Pahade	Training on Advance Solidworks	Participated
11	Vedant Pahade	Data Visualization Empowring Business with Effective insights	Participated
12	Vedant Pahade	Diploma in electrical vehicle technology	Participated
13	Sanskruti Gawai	Certificate of Membership of IEI	Participated

Students Publications

Sr. No.	Group No.	Roll No.	Name of The Students	Guide Name	Title of Paper	Journal Name	Volume	Publication Date & Year
1.	G1	29	Mohit Ramdas Mandve	Dr. Bhupen-dera Kumar	Smart Notice Board	International Research Journal of Modernization In Engineering Technology & Science	05	12 December 2023
2.		38	Prashil Yuvraj Gajbhiye					
3.		42	Punit Vijay Gharpure					
4.		46	Rohit Sanjay Ade					
5.		58	Shyam Murlidhar Wanjari					
6.	G2	9	Anita Vasantkumar Darwade	Mr.Yogesh Lkhe	Design And Performance Analysis of Different Types of Filter Using Interleave Step Up Converter	GIS SCIENCE JOURNAL	10	04, December 2023
7.		33	Nikhil Rajendra Khadse					
8.		56	Sejal Dilip Kolhe					
9.		59	Siddesh Bandu Khilekar					
10.		60	Snehal Shankar-rao Nikam					
11.	G3	4	Akash Dipchand Mahto	Mr. Chetan Kidile	Solar-Powered Moss-Based Outdoor Air Purifier With Air Quality Monitoring	GIS SCIENCE JOURNAL	10	12, December 2023.
12.		11	Bhavishya Dinesh Vazirani					
13.		25	Kundan Bhojraj Rangari					
14.		26	Manish Ajit Choukikar					
15.		30	Mohit Vasant Bhamburkar					
16.	G4	5	Akash Rajkumar Gupta	Mr. Kiran Raut	Automatic Fire Extinguishing System For E-Vehicle	International Journal of Multidisciplinary Research In Science, Engineering And Technology (IJMRSET)	6	12, December 2023.
17.		6	Amol Pramod Vishwarkarma					
18.		8	Anandmurty Shrinivas Singh					
19.		28	Mirza Maroof Baig					
20.		34	Parimal Laxmikant Dangore					
21.	G5	35	Prachi Amrutrao Thakre	Mr.Avinash Welankiwar	Enhancing Transparency And Efficiency In Ration Distribution: An RFID-Based System For Public Welfar	International Journal of Multidisciplinary Research	06	11, November 2023
22.		36	Prachi Narendra Bhadre					
23.		55	Sanket Sanjay Borde					
24.		62	Swaraj Yogeshwar Ambare					
25.		63	Tanmay Shrikant Bokde					
26.		65	Vaishnavi Chhotulal Kamble					

Sr. No.	Group No.	Roll No.	Name of The Students	Guide Name	Title of Paper	Journal Name	Volume	Publication Date & Year
27.	G6	3	Aditya Prakash Meshram	Dr.Tarun Shrivastava	Solar-Powered Electric Fence With Buzzer: An Iot-Based System For Enhanced Agricultural Farm Security	International Journal of Multidisciplinary Research In Science, Engineering And Technology (IJMRSET)	6	12 December 2023
28.		10	Arpana Sunil Meshram					
29.		14	Chirag Bhuwanesh Thakare					
30.		17	Dvesh Krishna Kinake					
31.		20	Gauri Sanjay Tiwaskar					
32.	G7	32	Mrunali Ishwar Kumbhare	Mr. Sachin Karare	Iot-Driven Innovation: Advancing Precision And Efficiency In Small-Scale Wire Cutting Industries	International Research Journal of Modernization In Engineering Technology And Science (IRJMETS)	5	12 December 2023
33.		44	Ritikesh Kishor Godbole					
34.		53	Sanidhya Ramesh Mhaiskar					
35.		51	Saish Subhash Charlikar					
36.		57	Shreyash B. Wahikar					
37.		61	Subodh Sunil Deshkar					
38.	G8	1	Achal Ashok Meshram	Miss Rashmi S. Phasate	Intelligent Health Monitoring System: Advancing Healthcare Through Technology	International Journal of Multidisciplinary Research In Science, Engineering and Technology (IJMRSET)	6	11 November 2023
39.		2	Achal Hansraj Bhaladhare					
40.		41	Prayas Punesh Moon					
41.		48	Rutwik Haribhau Kumbhare					
42.		52	Sakshi Sukhadev Taksande					
43.		54	Sankalp Gajanan Lokhande					

Sr. No.	Group No.	Roll No.	Name of The Students	Guide Name	Title of Paper	Journal Name	Volume	Publication Date & Year
44.	G9	16	Dipak Sanjay Ralbandiwar	Dr. Bhupendera Kumar	Empowering Domestic Transportation With Electric Vehicle	International Journal of Multidisciplinary Research In Science, Engineering And Technology (IJMRSET)	7	January 2024
45.		39	Pratik Arun Chavhan					
46.		43	Renuka Sanjay Mudholkar					
47.		49	Sachin Rajendra Dadhe					
48.		50	Sahil Ranjit Dere					
49.	G10	12	Chetana Duryodhan Dighore	Dr. Tarun Shrivastava	Smart E-Vehicle Charger Using Solar And AC Mains	International Journal of Multidisciplinary Research In Science, Engineering And Technology (IJMRSET)	6	12 December 2023
50.		19	Gaurav Pravin Kidey					
51.		27	Minakshi Chunnilal Sakhare					
52.		31	Monika Rajesh Tekam					
53.		37	Pranay Keshav Dhakate					
54.		40	Pratik Prakash Wagh					
55.	G11	13	Chhagan Gunvant Daware	Dr. Raghvendra Tiwari	Smart-Cart : Shopping with Iot-Enabled Trolley	Journal Of Emerging Technologies And Innovative Research (JETIR)	10	28 December 2023
56.		15	Darpan Dharamadip Walde					
57.		21	Karishma Nandkishor Bhutange					
58.		22	Kaushik Ashok Thakre					
59.		23	Komal Rakesh Ramteke					
60.		24	Sameer Raja Kuldeep					

Faculty Participations in Workshops, FPD, STTP etc.:

Sr. No.	Department	FDP	STTP	Workshop	Webinar	Paper Publication	Book / Book Chapter Publication	Copyright	Patent	NPTEL
1	Electrical Engineering	19	11	05	05	14	02	11	01	07

NPTEL Certifications of Faculty and students:

Sr. No.	Name of Faculty / Student	Name of Course	Certification Status
1	Dr.Bhupendra Kumar	NBA Accreditation and Teaching-Learning in Engineering (NATE)	Elite
2	Mr. Avinash Welankiwar	Smart Grid : Basics to Advanced Technologies	Elite
3	Ms. Rashmi Phasate	Fuzzy Logic and Neural Networks	Elite
4	Mr.Yogesh Ikhe	Advanced Linear Continuous Control Systems: Applications With Matlab Programming and Simulink	Elite
5	Dr.Tarun Shrivastava	EV - Vehicle Dynamics and Electric Motor Drives	Successfully Completed
6	Mr.Chetan Kidile	Power System Protection and Switchgear	Elite
7	Ms.Pradnya Korde	EV - Vehicle Dynamics and Electric Motor Drives	Successfully Completed
8	Achal Ashok Meshram	E Business	Successfully Completed
9	Aditya Prakash Meshram	Air Pollution and Control	Successfully Completed
10	Akash Dipchand Mahto	E Business	ELITE
11	Achal Hansraj Bhaladhare	E Business	Successfully Completed
12	Akash Rajkumar Gupta	air pollution and control	ELITE
13	Amol Pramod Vishwarkarma	Basic Environmental Engineering And Pollution Abatement	Successfully Completed
14	Anandmurty Shrinivas Singh	Basic Environmental Engineering And Pollution Abatement	ELITE
15	Anita Vasantkumar Darwade	Integrated Marketing communication	Successfully Completed
16	Arpana Sunil Meshram	Air Pollution and Control	ELITE
17	Bhavishya Dinesh Vazirani	E Business	ELITE
18	Chetana Duryodhan Dighore	E Business	ELITE
19	Chhagan Gunvant Daware	Air Pollution and Control	SILVER (5% Topper)
20	Chirag Bhuwanesh Thakare	Air pollution and Control	ELITE
21	Darpan Dharmadip Walde	Air pollution and Control	Successfully Completed

Sr. No.	Name of Faculty / Student	Name of Course	Certification Status
22	Dipak Sanjay Ralbandiwar	Air Pollution And Control	ELITE
23	Dvesh Krishna Kinake	Air Pollution and Control	ELITE
24	Gaurav Pravin Kidey	Air Pollution and Control	Successfully Completed
25	Gauri Sanjay Tiwaskar	Air Pollution and Control	SILVER
26	Kaushik Ashok Thakre	Air pollution and Control	ELITE
27	Kundan Bhojraj Rangari	Air pollution and control	ELITE
28	Manish Ajit Choukikar	E Business	ELITE
29	Minakshi Chunnilal Sakhare	Air Pollution and Control	ELITE
30	Mirza Maroof Baig Mirza M. Baig	Introduction to industry 4.0 and industrial Internet of Things	ELITE
31	Mohit Ramdas Mandve	Air pollution and Control	SILVER
32	Mohit Vasant Bhamburkar	E Business	ELITE
33	Mrunali Ishwar Kumbhare	Introduction to industry 4.0 and industrial Internet of Things	ELITE
34	Nikhil Rajendra Khadse	E Business	Successfully Completed
35	Parimal Laxmikant Dangore	Training and Development	SILVER
36	Pranay Keshav Dhakate	Introduction to industry 4.0 and industrial Internet of Things	Successfully Completed
37	Prashil Yuvraj Gajbhiye	Air pollution and Control	ELITE
38	Pratik Arun Chavhan	Organizational Behaviour	ELITE
39	Pratik Prakash Wagh	Air Pollution and Control	Successfully Completed
40	Prayas Punesh Moon	Introduction to industry 4.0 and industrial Internet of Things	Successfully Completed
41	Punit Vijay Gharpure	Advances in UHV transmission and distribution	Successfully Completed
42	Renuka Sanjay Mudholkar	Air Pollution and control	Successfully Completed
43	Ritikesh Kishor Godbole	Introduction to industry 4.0 and industrial Internet of Things	ELITE
44	Rohit Sanjay Ade	Air Pollution and Control	SILVER
45	Rutwik Haribhau Kumbhare	Air Pollution and Control	Successfully Completed
46	Sachin Rajendra Dadhe	Air Pollution and control	Successfully Completed
47	Sahil Ranjit Dere	Air Pollution And Control	Successfully Completed
48	Saish Subhash Charlikar	E Buisness	ELITE
49	Sanidhya Ramesh Mhaiskar	Introduction to industry 4.0 and industrial Internet of Things	ELITE
50	Sanket Sanjay Borde	Air Pollution and Control	Successfully Completed
51	Sejal Dilip Kolhe	Air Pollution and Control	ELITE
52	Shreyash B. Wahikar	Introduction to industry 4.0 and industrial Internet of Things	Successfully Completed
53	Shyam Murlidhar Wanjari	Air Pollution and Control	ELITE
54	Siddesh Bandu Khilekar	E-business	ELITE
55	Snehal Shankarrao Nikam	Integrated Marketing communication	Successfully Completed
56	Subodh Sunil Deshkar	Introduction to industry 4.0 and industrial Internet of Things	ELITE
57	Swaraj Yogeshwar Ambare	Air Pollution and Control	ELITE
58	Tanmay Shrikant Bokde	Air Pollution and Control	Successfully Completed
59	Vaishnavi Chhotulal Kamble	Air Pollution and Control	ELITE
60	Laxmikant Vikas Meshram	integrated marketing communication	Successfully Completed
61	Swapnil Bhujangrao Sonkamble	integrated marketing communication	Successfully Completed

Copyrights:

Sr. No.	Name of Faculty	Title	Registration No.
1.	Dr.Bhupendra Kumar	Impact Of UPFC On Alpha Plane Line Current Differential Protection	L-147909/2024
2.	Ms.Rashmi Phasate	Smart Shoes For Flat Feet	L-141927/2024
3.	Ms.Pradnya Korde	Intelligent Motor Control Centers	L-143834/2024
4.	Mr. Avinash Welankiwar	Introduction To Wide Area Measurement System And Challenges In Adaptive Protection In Smart Grid	L-140826/2024
5.	Mr.Kiran Raut	Design Of Low Cost Hybrid Electric Bicycle	L-139432/2023
6.	Mr.Sachin Karare	Basics Of Electrical Hazards	L-138171/2023
7.	Mr.Yogesh Ikhe	Greenhouse Environment Monitoring And Controlling System	L-137474/2023
8.	Mr.Chetan Kidile	Smart Substation monitoring and Control System using NODE MCU	L-136135/2023
9.	Dr.Tarun Shrivastava	IoT Based Application For Ripening Chamber	L-139911/2023
10.	Dr.Raghvendra Tiwari	Optimal Distance And Directional overcurrent Relay Coordination In Distributed Generation Based Power System	L-140569/2024
11.	Dr.Raghvendra Tiwari	Biometric Based Electronic Voting Machine	L-143414/2024

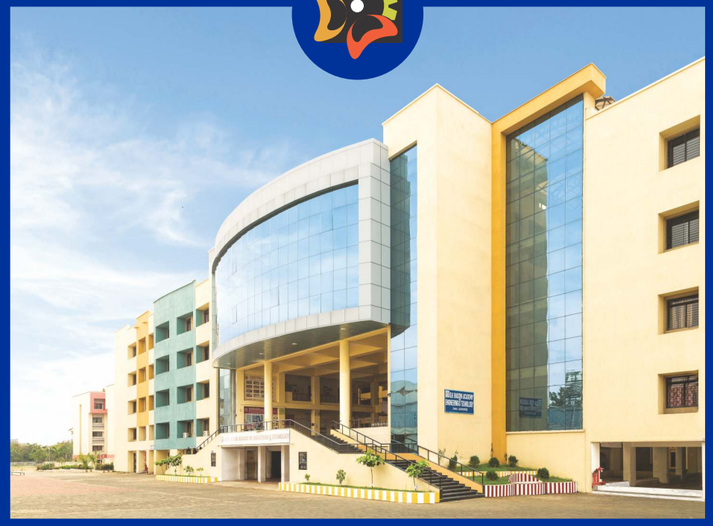
Faculty Achievements:

Name of Faculty	Particulars
Dr.Bhupendra Kumar	• Worked as a Technical Team in the 3rd International conference on "Advanced computing Technologies and Applications - 2023 (ICACTA-2023),organized by SVKM's Dwarkadas J. Sanghvi College of Engineering, India. • Reviewer at the 3rd International Conference on Advanced Computing Technologies and Applications-2023 (ICACTA), organized by SVKM's Dwarkadas J. Sanghvi College of Engineering on the 6th and 7th of October 2023. • Working as an organising Committee for the International Conference on Energy Technology and Electrical Power -2024, will be held from December 20 to 2, 202, in Guangzhou, China. • Worked as a Session Chair for the 5th International Conference on Energy, Control, Computing and Electronics Systems (ICECCES 2024) held during 22nd to 24th March 2024 organized by AICTE IDEALAB in association with Department of Electrical and Electronics Engineering, School of Engineering, Mohan Babu University, Tirupati-517 102, Andhra Pradesh, India. • Delivered an Expert talk in a national level short term training program (STTP) on " Emerging Trends in Electrical Engineering" in Between 16th -20th January 2024, organised by Department of Diploma in Electrical Engineering GHRIET Nagpur. • Participated and Presented a Paper at ICSPER - 2024 on "Interleaved DC-DC boost converter using sliding mode control" between 01st - 03rd Mar. 2024, at NIT Warangal.

Name of Faculty	Particulars
	• Worked as a General Chair in the international Conference on " Advance Communication, Energy and Big Data" organised by GHRIET, Nagpur, held on 15th and 16th March 2024. • Worked as a Reviewer in the international Conference on " Advance Communication, Energy and Big Data" organised by GHRIET, Nagpur, held on 15th and 16th March 2024. • Active Reviewer for the SCI Journals like, IEEE Transaction on Power Delivery, Elsevier Journal of Applied Soft Computing, Elsevier Journal of Electric Power System Research, Elsevier Journal of Energy System, Taylor & Francis Journal of Electrical Power Components and Systems.
Ms.Rashmi Phasate	• Organizing Committee member and Reviewer in ICACEBD 2024 organized by GHRIET Nagpur
Mr.Kiran Raut	• Conducted session on "Energy conservation and Audit" Skill Training Workshop for Non-Technical Staff of GHRIET on 10th Feb.2024 • Reviewer for IEEE International Transportation Electrification Conference - India 2023 • Reviewer and organizing chair for ICACEBD 2024 at GHRIET, Nagpur between 15-16 March 2024.
Mr.Avinash Welankiwar	• Delivered keynote session on "Recent Developments in Microgrid Protection" in ISTE sponsored FDP on "Role of Sustainable Development Goals in the field of Engineering" organized by JDCOE, Nagpur on 30.11.2023 • Presented paper at ICSPER - 2024 on "Interleaved DC-DC boost converter using sliding mode control" between 01st - 03rd Mar. 2024 • Reviewer and publication chair at ICACEBD 2024 at GHRIET, Nagpur on 15th and 16th March 2024. • Reviewer at IEEE International Transportation Electrification Conference - India 2023
Dr.Tarun Shrivastava	• Reviewer and Pubility chair at ICACEBD 2024 at GHRIET, Nagpur on 15th and 16th March 2024.
Mr.Yogesh Ikhe	• Presented paper at ICSPER - 2024 on "Interleaved DC-DC boost converter using sliding mode control" between 01st - 03rd Mar. 2024 • Published paper on ""Design and Performance Analysis Of Different Types Of Filter Using Interleaved Step Up Converter", in GIS Science Journal Volume 10 Issue 12 December 2023.
Mr.Chetan Kidile	• Presented Paper at ICSPER-2024 on "Interleaved DC-DC boost converter using sliding mode control" between 01st - 03rd Mar. 2024 • Published paper on "Solar Powered "Moss based Outdoor Air Purifier with Air Quality Monitor", in GIS Science Journal Volume 10 Issue 12 December 2023. • Conducted session on "Energy conservation and Audit" Skill Training Workshop for Non-Technical Staff of GHRIET on 10th Feb.2024
Mr.Sachin Karare	• Paper Published in IEEE "Distance and User-Defined Overcurrent Relay Coordination for IEEE-14 Bus Test System" at Third International conference on power control and computing Technologies 2024.

Name of Faculty	Particulars
Dr.Raghvendra Tiwari	• Participated as a REVIEWER in the International Conference on Advanced Communication, Energy and Big Data (ICACEBD-24) conducted by GHRIET, Nagpur. • Participated as a REVIEWER in the International Conference on Sustainable Power & Energy Research (ICSPER-24) conducted by NIT-Warangal from 01-03 March 2024. • Participated as a REVIEWER in the 8th Student Conference on Engineering & Systems (SCES-24) conducted by MNNIT Allahabd June 2024. • Published Paper (First Author) at 3rd International Conference on Power, Control & Computing Technologies (ICPC2T-2024) on "Distance and User Defined Overcurrent Relay Coordination for IEEE-14 bus Test system" held at NIT-Raipur February 2024. • Conference paper titled "Phase shift DC-DC Converter Based Electrical Vehicle Charging With Power Factor Correction" accepted in 2nd International Conference on Computer, Electronics, Electrical Engineering & their Applications (IC2E3-2024) held at NIT-Srinagar in June 2024. • Published Book Chapter "Protection Coordination Issue for AC Microgrid System-A Comprehensive Review" (Taylor & Francis) DOI:10.1201/9781003481836-14.

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G H Raisoni Institute of Engineering & Technology, Nagpur

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

Accredited by NBA & NAAC with "A+" Grade

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