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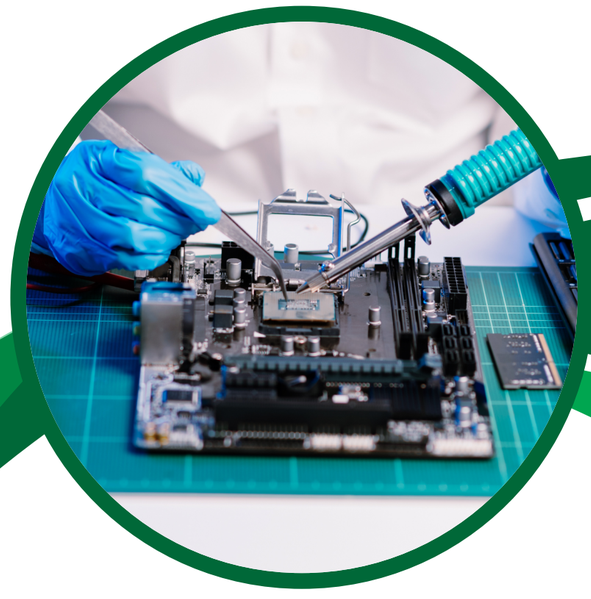
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Department of Electronics & Telecommunication Engineering



ELECTRONICA

NEWSLETTER

2022-23 Vol.-II, Issue-2

ELECTRONICA
NEWSLETTER

PATRONS

Shri. Sunil Raisoni
Chairman, RGI

Dr. Vivek Kapur
DIRECTOR, GHRIET

Dr. Devashree Marotkar
Head of Department

Ms. Shubhangini Ugale
Editor in Chief

NEWSLETTER CREDITS

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Ms. Surbhi Bhaskar
Ms. Sanika Khairwar

Index

Sr. No.	Particulars	Page No.
1.	Chairman's Desk	02
2.	Director’s Desk	03
3.	HoD’s Desk	04
4.	Editorial's Desk	05
5.	Program Education Objectives (PEOs)	06
6.	Program Specific Outcomes (PSOs)	06
7.	(ISR) Activity	08
8.	Skill's Training	09
9.	Alumni Interaction	10
10.	Project Competition	13

Vision and Mission of the Department

Vision of the Department

To develop professionals to become a valuable resource for industry, possessing a sound social awareness and sense of responsibility through academic excellence in Electronics and Telecommunication Engineering.

Mission of the Department

M 1: To develop the department into a multi-faceted learning environment supported by adequate facilities, infrastructure, and learning resources.

M 2: To provide quality and value-based education to undergraduate students in the field of Electronics and Telecommunication Engineering.

M 3: To prepare graduates for industry, higher education, and research by fostering innovation, ethical values, professional skills, and lifelong learning.

Chairman's Message



Shri, Sunil Raisoni
Chairman, RGI

It gives me immense pleasure to present the latest edition of the Department of Electronics and Telecommunication Engineering Newsletter. This publication reflects the vibrant academic environment, innovation, and collaborative spirit that define our department.

Electronics and Telecommunication Engineering is a field that continues to drive technological advancement and shape the future of communication, automation, and intelligent systems. Our department remains committed to nurturing technically competent engineers who are not only skilled in emerging technologies but also guided by strong ethical values and a sense of social responsibility.

This newsletter highlights the remarkable achievements of our students and faculty, including academic accomplishments, research activities, workshops, industry collaborations, and various co-curricular initiatives. Such efforts demonstrate our continuous pursuit of excellence in teaching, learning, and innovation.

I would like to congratulate the editorial team for their dedication in bringing together these achievements and experiences into this publication. I also extend my appreciation to the faculty members and students whose enthusiasm and hard work contribute to the growth and success of the department.

I hope this newsletter serves as a platform for sharing knowledge, celebrating milestones, and inspiring new ideas. Let us continue striving for excellence and innovation as we shape the engineers and leaders of tomorrow.

Director's Message



It gives me great pleasure to see the publication of the Department of Electronics and Telecommunication Engineering Newsletter. Such initiatives provide an excellent platform to showcase the academic excellence, innovative spirit, and collaborative efforts of our faculty and students.

In today's rapidly evolving technological landscape, Electronics and Telecommunication Engineering plays a crucial role in shaping modern communication systems, smart technologies, and digital infrastructure. Our institution remains committed to providing quality education, encouraging research, and fostering creativity among students so they can meet global technological challenges with confidence.

This newsletter highlights the remarkable achievements, research initiatives, workshops, technical events, and student activities organized by the department. These accomplishments reflect the dedication and hard work of our faculty members and the enthusiasm of our students.

I congratulate the editorial team for their efforts in compiling this newsletter and appreciate the department for continuously striving towards academic and professional excellence. I wish the Department of Electronics and Telecommunication Engineering continued success in all its future endeavors.

Dr. Vivek Kapur
Director, GHRIET

HOD's Message



It is a matter of great pride and satisfaction to present the latest edition of the Department of Electronics and Telecommunication Engineering Newsletter. This newsletter reflects the academic activities, technical achievements, and innovative initiatives undertaken by our department.

Our department strives to provide a dynamic learning environment that encourages curiosity, critical thinking, and practical application of knowledge. Through academic programs, laboratory work, research projects, workshops, seminars, and industry interactions, we aim to equip our students with the skills required to excel in the rapidly advancing field of electronics and communication technology.

The achievements highlighted in this newsletter demonstrate the dedication of our faculty members and the enthusiasm of our students in exploring new ideas and technologies. I encourage our students to continue their pursuit of knowledge, innovation, and excellence.

I would like to congratulate the editorial team for their sincere efforts in compiling this newsletter and appreciate everyone who contributed to its success.

Let us continue to work together to achieve greater milestones in the future.

Dr. Devashree Marotkar

HOD, ETC Department

Editorial's Message



It is with great enthusiasm that we present this edition of the Department of Electronics and Telecommunication Engineering Newsletter. This newsletter serves as a platform to highlight the academic, technical, and extracurricular achievements of our department.

Over the past months, our department has witnessed numerous activities including technical workshops, seminars, industrial visits, research initiatives, and student achievements. Each of these activities reflects the dedication of our faculty members and the creativity and hard work of our students.

The objective of this newsletter is not only to document these accomplishments but also to inspire innovation, collaboration, and continuous learning within our academic community. We hope that the articles, reports, and achievements featured in this edition will encourage readers to explore new ideas and actively participate in future initiatives.

We would like to express our sincere gratitude to the faculty members, students, and contributors who supported us with their valuable inputs and content. Their cooperation made the successful compilation of this newsletter possible.

We hope you enjoy reading this edition and look forward to your continued support and contributions in future issues.

Ms. Shubhangini Ugale

(PEOs) & (PSOs)

Program Education Objectives (PEOs)

- **PEO1:** Have in-depth knowledge in Electronics and Telecommunication Engineering to Innovate, design and develop modern electronic system.
- **PEO2:** Sustain intellectual curiosity in professional carrier through lifelong learning.
- **PEO3:** Have strong work ethics, professional attitude, team spirit, leadership skill and enterprising skills to serve industry and society.

Program Specific Outcomes (PSOs)

The graduates of the department will attain ability to:

- **PSO1:** Apply, mathematics and Science through differential and integral calculus transform to solve complex Electronics and Telecommunication engineering problems
- **PSO2:** Applying modern IT tools for the design and analysis of complex electronics systems.
- **PSO3:** Acquired technical knowledge for qualifying in competitive examinations at various levels.

Program Outcomes

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply 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 analyse complex engineering problems reaching substantiated conclusions using first 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 modelling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary 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 the 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.

(ISR) activity at Z. P. School Jamtha on 25/01/2023









Student forum HEARTZS of Electronics & Telecommunication Department, GHRIET organized ISR activity at Z. P. School Jamtha, Nagpur on 18/01/2023 with permission of Dr. Vivek Kapur, Director, GHRIET, Nagpur and Dr. Devashree Marotkar, HOD, ETC Department. This activity explored technical and non-technical activities among young generation. The Idea behind this Institute Social Responsibility (ISR) activity is to enlighten the primary, secondary & higher secondary school students with different aspects that they face in their daily life or may face in future. These aspects includes daily habitat, Cleanliness in neighbourhood, Internet Security, Electricity and knowledge of computer, Different languages, Careers they can look to grow themselves in future along with fun games.

HEARTZS committee also conducted a drawing competition among students and distributed prizes to winners. HEARTZ member's taught German language to 7th and 8th standard students they enjoy the session and learn basic alphabets, numbers from 1 to 10 and some sentence. All faculties of school appreciate HEARTZS members for their involvement in games and other technical activity. They also congratulate the whole HEARTZ committee and told them to keep replicating good work as they did here. At the end of day HEARTZ committee gave gifts to every student of school as token of love. This ISR activity was conducted by members of HEARTZ under supervision of Mr. Vipin Bhure and Ms. Shubhangini Ugale, HEARTZ Faculty In-charge of ETC department.

Skill Training Program on "IoT & amp; It's Applications

Electronics & Telecommunication Engineering Department of G. H. Raisoni Institute of Engineering & amp; Technology, Nagpur had organised Five days Students skill training program on "IoT & It's Applications" from 07 th February to 11 th February 2022 for BE 2 nd Year, 3 rd year & 4th Year (E&TC) Students. Total 80 Students had attended and benefited from this skill training program.

Training session is conducted by Dr. Rahul Pethe Sir, Prof. Swati Hadke Madam Prof. Vipin Bhure Sir of Electronics & amp; Telecommunication Engineering Department. In this training sessions, they cover Introduction to Microcontroller and Robotics, Hands on Basic Programing of IoT, Knowledge of Arduino Uno, IoT Technology and WiFi, Bluetooth, ZigBee, Applications of IoT ,Hands on Programing on IoT and various examples on the mentioned topics. The Skill Training Program was concluded with a question answering session followed by test. At the end of training session feedback was taken. This training program was successfully coordinated by faculty in charges Ms. Swati Hadke & Mr. Vipin Bhure from Department of Electronics & Telecommunication Engineering under the able guidance of Dr. Devashree Marotkar, HOD, E & TC Department & Dr. Vivek Kapur, Director, GHRIET, Nagpur.





Skill Training Program on "Android App Development"

Electronics & Telecommunication Engineering Department of G. H. Raisoni Institute of Engineering & Technology, Nagpur had organised five days skill training program on "Android App Development" from 27th February to 01st March 2023 for B.Tech. 2nd Year (ETC) Students. Total 55 Students had attended and benefited from this skill training program.

Training session is conducted by Mr. Ashwinkumar Balani Sir, C.E.O. of First Impression Technologies. In this training sessions, they cover Introduction to Java programming, Android Fundamentals and Architecture, Basic Android controls, Advance Android controls, Animation in Androids, Menus & Many Handlers on Androids, Displaying data in the form of Lists, The road ahead with Androids, Data Storage and Networking in Android, Architecture Components, Advanced Android Concepts, Testing & Debugging, Deployment & Career Roadmap, Hands on Programing on Android and various examples on the mentioned topics.

The Skill Training Program was concluded with a question answering session. At the end of training session feedback was taken. This training program was successfully coordinated by faculty in charges Ms. Swati Hadke and Mr. Vipin Bhure from Department of Electronics & Telecommunication Engineering under the able guidance of Dr. Devashree Marotkar, HOD, ETC Department & Dr. Vivek Kapur, Director, GHRIET, Nagpur









Glimpses of Skill Training Sessions

Alumni Interaction by Ms. Nikita Yelekar



Department of Electronics & Telecommunication Engineering of G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for B. Tech 4th and 6th semester students on Wednesday 22 February 2023.

The alumni Ms. Nikita Yelekar a 2018 batch pass out student, currently working in Infosys as a Developer at Nagpur.

She shared her college experience, discuss submission days, given different examples of project and paper presentation and motivate student to participate in every technical competition not only at college but others college also. Interactive session was done between students and alumni, Ms. Nikita Yelekar. Students definitely get benefit by her guidance.

The session was coordinated by Ms. Shubhangini Ugale. Under the guidance of Dr. Vivek Kapur, Director of GHRIET and Dr. Devashree Marotkar, HOD of Electronics and Telecommunication department.

Alumni Interaction by Mr. Abhishek Solat



Department of Electronics & Telecommunication Engineering of G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for B.Tech. 4th semester students on 11th February 2023.

The alumni Mr. Abhishek Solat a 2021 batch pass out student, currently working in Bluberry Semicoductor Pvt. Ltd. as a Verification Engineer at Banglore.

He shared his photography experience at college level and inform to student about different photography events organized at college level. He told to student college life is unforgettable life after pass out every one will miss this days so coordinate and participate each and every activity organized by the department and at college level which is helpful to add in your resume. Interactive session was done between students and alumni, Mr. Abhishek Solat. Students definitely get benefit by his guidance.

The session was coordinated by Ms. Shubhangini Ugale. Under the guidance of Dr. Vivek Kapur, Director of GHRIET and Dr. Devashree Marotkar, HOD of Electronics and Telecommunication department.

Alumni Interaction by Mr. Aditya Deshmukh

Department of Electronics & Telecommunication Engineering of G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for B. Tech. 4th and 6th semester students on 18th March 2023.

The alumni Mr. Aditya Deshmukh a 2020 batch pass out student, currently working in Flex as a Software Developer at Nagpur.

He shared his experience, different software skills require for company and how to prepare our self for company. He told to students for ETC branch students opportunities open in Hardware, Telecom and IT sector. Interactive session was done between students and alumni, Mr. Aditya Deshmukh. Students definitely get benefit by his guidance.

The session was coordinated by Ms. Shubhangini Ugale. Under the guidance of Dr. Vivek Kapur, Director of GHRIET and Dr. Devashree Marotkar, HOD of Electronics and Telecommunication department.



Parent-Teacher Meet





Glimpses of Parent Teacher Meeting

First Parents Teacher Meeting was organized by Department of Electronics & Telecommunication Engineering on 26th March 2022 at 11.00 AM. The main purpose of meet was to create a common platform, where teacher and parents come together to enrich the student's educational experiences and discuss variety of issues, regarding their attendance in classes, submission of exam form and clearance of fees.

Class teacher explained parents about learning environment for the students. Parent Teacher meeting is truly enriching the student's academic performance as well as shaping their all-round development. Total 24 parents attended the meeting.

Prof. Prajakta Upadhye and Prof. Priyanka Chopkar briefed about the attendance status, CAE-I result and overall attendance of 4th and 6th sem to the parents of their wards.

Prof. Vipin Bhure and Prof. Shubhangini Ugale informed parents that, college is not only striving to give the best in academics but also delivering the facility to enhance the human excellence and develop the soft skills of the students for e.g. aptitude, personality, special program for competitive etc. HOD Dr. Devashree Marotkar briefed about Teaching Learning Process in the department and efforts taken by department for over personality development of students. All Parents appreciated the efforts taken by the department to enhance the overall teaching learning process.

Project Competition

The Project Competition was organized under the PRAGYOTSAV 2023 (National Level Technical Fest) on 28/03/23 at 11.00 AM in Room No. 301 for the academic year 2022-23. Total 26 project groups of various colleges had participated in the event. Overall 83 students participated in the event.

Dr. Bhupendra Kumar, HOD of Electrical Engineering department Judged the event and winners were declared as follows:

- **First Prize Winners :** Mr. Sagar Bankar, Mr. Anubhav Rai, YCCE Nagpur
- **Second Prize Winners:** Mr. Aniket Dehankar, Mr. Aniket Raut, Mr. Aniket Zade, Mr. Himanshu Lilhare, GHRC Nagpur

Ms. Prajakta Upadhye coordinated this event under the guidance of Dr. Devashree Marotkar, HOD ETC and Dr. Vivek Kapur, Director of GHRIETN.









Event: LAN GAMING

In Lan Gaming Event, it was divided into two parts BGMI and FIFA total 137 students (4 members in BGMI and 2 member in FIFA) were participated from Priyadarshini, Pallotti, GHRIET engineering and polytechnic colleges from Nagpur.

In BGMI (Battleground Mobile India) three groups were formed playing in three rounds. In first round each groups (25 participant) were played from this three groups were selected (8 partcipant).

In third round from this three groups BGMI winner was selected.

In FIFA were played in Sony Play Station 5 sponsored by Games & Café, in this Gaming two participant were played according to fixtures design and those who cleared the final round selected as FIFA Winner.

Rugved Tamboli from St. Vincent Pallotti college of Engineering, Nagpur First winner FIFA.

Saurabh Patle and Group from BBA, MBA and MCA of GHRIET, Nagpur as First winner in BGMI.

Student Coordinator:

1. Aman Gurunule
2. Parth Munishwar
3. Yash Khadakkar

Faculty Coordinator:

1. Mr. Purushottam Chawke





Circuit Designing Competition Date: Tuesday, 28th March 2023.





In Circuit Designing Competition, total 44 teams (2 members in each team) were participated from YCCE, Priyadarshini, Pallotti, GHRIET engineering and polytechnic colleges from Nagpur.

Total 3 rounds were conducted. In first round On-Spot Circuit designing in a 2 min. All the teams had given a task to glow a LED using Diode and single Resistor. 20 Teams were qualified from this round.

In second round, a task is given to design a circuit as per the given circuit diagram within 6 min. 7 teams were qualified for the final round.

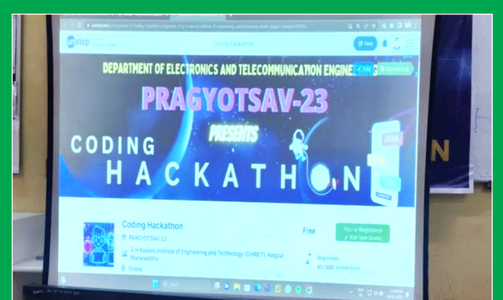
In final round i.e. Reverse Engineering, a predesigned breadboard circuit was presented to all the teams. 2 min were given for the observation of that circuit. And task was given to design the same circuit within 6 min.

GHRIET 2nd Year Polytechnic College, Nagpur Team (Rugved Kahpekar and Prathemsh Giradkar) was the Winner and YCCE, Nagpur team (Sagar Bankar) was the Runner-up of this event.

Event: Coding Hackathon

In Coding Hackathon, total 35 teams (2/3 members in each team) were participated from YCCE, PCE and GHRIET engineering and polytechnic colleges from Nagpur.

Total 2 rounds were conducted. In first round two problem statements were given to the students which had to be programmed correctly within the given time limit. 11 Teams were qualified from this round.







Glimpse of an event

Department of Electronics and Telecommunication Engineering Session 2022-23

In second round, two teams were immerged as a top programmer. Which were further felicitated by the respective judges.

GHRIET 2nd Year AI, Nagpur Team (Mr. Ashwin Masulkar & Mr. Sujal Pokale) was the Winner and GHRIET, Nagpur team (Ms. Arya Ashtankar & Mr. Dhruv Barapatre) was the Runner-up of this event.

Ms. Sucheta Raut assistant professor alog with Ms. Tanushree Umredkar, Mr. Vrushabh Dhote, ETC department coordinated this event under the guidance of Dr. Devashree Marotkar, Head of Dept. ETC & Dr. Vivek Kapur, Director of GHRIETN.

Alumni Interaction by Ms. Anushree Bharne

Department of Electronics & Telecommunication Engineering of G. H. Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for BE 4th and 6th semester students on 05 April 2023.

The alumni Ms. Anushree Bharne a 2022 batch pass out student, currently working in IBM Kyndryl as a IAM- Admin at Hydrabad.

She shared her experience in student life also employee life and difference of student and employee life. She told to student select your project which will useful for society. In technical round company expert ask the question related to your project also. She encouraged student to participate in different event and try to organize and coordinate different activity which build our confidence. Interactive session was done between students and alumni, Ms. Aushree Bharane. Students definitely get benefit by her guidance.

The session was coordinated by Ms. Shubhangini Ugale. Under the guidance of Dr. Vivek Kapur, Director of GHRIET Dr. Devashree Marotkar, HOD of Electronics & Telecommunication department.



