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Department of Electronics & Telecommunication Engineering



ELECTRONICA

NEWSLETTER

2023-24 **Vol.-III, Issue-2**

ELECTRONIKA
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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Mr. Sarang Malvi, 8th sem
Ms. Surbhi Bhaskar, 6th sem
Ms. Devyani Belsare, 4th sem

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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.

Skill Training Program on "Networking and Cloud Computing" is organised at Department of Electronics and Telecommunication Engineering in GHRIET, Nagpur





Skill Training Program on Networking and Cloud Computing is organised on 15th to 20th Jan 2024 for 6th semester students of Electronics and Telecommunication Engineering The session was conducted by Mr. Raj Arora, Director Revat Network, Nagpur

The benefits of this workshop is to provide fundamentals of Networking and Cloud Computing It also provides students with details on what kind of skillsets are needed and what job profiles are available It covers topic like networking, Routing Gateway and Type of cloud and Cloud Computing, Advantages and Disadvantages of Cloud Computing, Skillsets and Job roles in Cloud computing

During the first day, in first session Mr. Raj Arora started his discussion with very basic idea of Networking He highlighted the importance of Networking and cloud computing in different sector In second session, he shared his knowledge with student about CISCO Packet Tracer He also conducted hand on session on CISCO Packet Tracer which created interest among the student

On the second day, in first session Mr. Raj Arora explained about cloud computing, Types of clouds (Infrastructure as a Services Platform as a Services, Software As a Services), cloud services, Amazon AWS etc Then he showed the demo to use cloud services for any web applications with steps In the second session, the students registered and created free account in Amazon AWS He also clarified all their doubts regarding hosting a website in free cloud account

The session concluded with students expressing their satisfaction Around 63 students have attended the session Mr. Purushottam Chawke and Mr. Vishal Jaiswal coordinated this program under the guidance of Dr. Devashree Marotkar, Head of Dept Electronics and Telecommunication Engineering and Dr. Vivek Kapur, Director of GHRIET, Nagpur.

Electronics & Telecommunication Engineering Department GHRIET, Nagpur Organizes Webinar on "Opportunities in Embedded System"





A Webinar on "Opportunities in Embedded System" is organized on 07/02/2024 for 6th semester students of Electronics and Telecommunication Engineering The webinar was delivered by Mr. G. Satish, Academia Manager, Vector India, Hyderabad.

The webinar was started at 12.15 pm Mr. Vishal Jaiswal Assistant professor ETC Department welcomed the resource person and gave the Introduction about the Resource person Then the session was handed over to the Resource person.

This webinar helped the students to understand basic of Embedded System. The speaker had covered topics like hardware and software of embedded system, importance of programming, various embedded processor and its applications Speaker explicated various Job opportunities in embedded system In a broader sense, your expertise and skillset in embedded systems would depend on the type of your job—whether it is firmware or purely hardware, or both.

This webinar helped the students to know the scope and opportunity in this field Total 55 students had attended this webinar. The queries were asked by the participants for 10 minutes He gave the answers for all the queries Mr. Purshottam Chawke, Assistant professor delivered vote of thanks.

Mr. Vishal Jaiswal and Mr. Purshottam Chawke coordinated this webinar under the guidance of Dr. Devashree Marotkar, Head of Dept. Electronics and Telecommunication Engineering and Dr. Vivek Kapur, Director of GHRIET, Nagpur.

Project Competition









The Project Competition was organized under the PRAGYOTSAV 2024 (National Level Technical Fest) on 16/02/24 at 1100 AM in Room No 301 for the AY 2023-24 Total 16 project groups of various colleges had participated in the event Overall 56 students participated in the event.

Dr. Sanket Kasturiwala, Assistant Professor of Electronics and Telecommunication Engineering Department judged the event and winners were declared as follows:

- **First Prize Winners:** Mr. Shravan Kawale, Ms. Tanisha Bokde, Nagpur.
- **Second Prize Winners:** Mr. Amrut Paunikar, Ms. Damini Chachane, Mr. Aryan Nagardhankar, Mr. Yash Battighare, (PJLCE and JD college of Engineering) Nagpur.

Dr. Ravi Mishra coordinated this event under the guidance of Dr. Devashree Marotkar, HOD ETC and Dr. Vivek Kapur, Director of GHRIETN.

Anime Graphic Design Character

The Anime Graphic Design Character Competition was organized under the PRAGYOTSAV 2024 (National Level Technical Fest) on 17/02/24 at 100 PM in Room No. 301 for the academic year 2023-24 Total 60 participants of various colleges had participated in the event.

Manisha Tambulkar, ST. XAVIER'S High School Hiwari Nagar Nagpur. Judged the event and winners were declared as follows:

- **First Prize Winners:** Ms. Shruti Nakhate, GHRIET, Nagpur.
- **Second Prize Winners:** Ms. Roshani Upadhye, GHRIET, Nagpur.

Dr. Shubhangini Ugale coordinated this event under the guidance of Dr. Devashree Marotkar, HOD ETC Department and Dr. Vivek Kapur, Director of GHRIETN .





Glimpse of an event

Event: Coding Hackathon Date: Tuesday, 17th February 2024







Glimpse of an event

Department of Electronics & Telecommunication Engineering has organized Coding Hakathon technical event under the Pragyotsav- 2024 In this competition, total 18 teams (2 members in each team) were participated from GHRC, PCE and GHRIET engineering and polytechnic colleges from Nagpur. In this competition total 3 rounds were conducted First two rounds were based on objective questions related to the technical knowledge of various coding languages like C++, python etc 11 teams were qualified from these round.

In third round, problem statements were given to the students which they have to program correctly within the given time limit Two teams were immerged as a top programmer Which were further felicitated by the respective judges.

GHRCE 2nd year IT, Nagpur Team (Mr. Mirza Baig & Mr. Md. Izan Khan) was the Winner and GHRCE 2nd year CSE, Nagpur team (Mr. Jagesh Parshuramkar & Mr. Vaibhav Kanoji) was the Runner-up of this event.

Ms. Sucheta Raut Assistant Professor ETC Department, GHRIET Nagpur, along with Mr. Prajwal Bhakare and Mr. Sameer Pihul, VI semester ETC students coordinated this event under the guidance of Dr. Devashree Marotkar, Head of Dept. ETC and Dr. Vivek Kapur, Director of GHRIET Nagpur.

LAN GAMING –BGMI

The LAN GAMING-BGMI Competition was organized under the PRAGYOTSAV 2024 (National Level Technical Fest) on 16/2/24 & 17/2/24 at 1100 AM in Room No. 303 for the academic year 2023-24 Total 34 Teams of various colleges had participated in the event Overall, 134 students participated in the event.

Winners were declared as follows:

- **First Prize Winners :** Harsh Kukade, Ashhar Raza, Nikhil Singh, Prateek Raut
- **Second Prize Winners:** Preshit Dhabarde, Chetan Manankar, Dhruv Anand, Bangari Abhijeet Mahipal.

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







