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G H RAISONI INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR

(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
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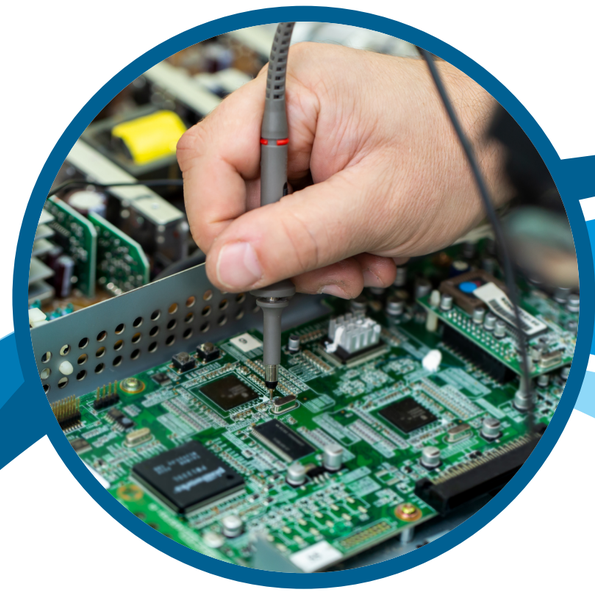
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Department of Electronics & Telecommunication Engineering



ELECTRONICA

NEWSLETTER

2022-23 Vol.-II, Issue-1

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

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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.

Training Program on “Roadmap of Cloud Based Internet of Things”





Glimpses of Skill Training Sessions

Electronics & Telecommunication Engineering Department of G H Raisoni Institute of Engineering & Technology, Nagpur had organised Five days Students training program on “Roadmap of Cloud Based Internet of Things” from 25th July 2022 to 29th July 2022 for B. Tech 3rd year & 4th year (ETC) Students. Total 67 Students had attended and benefited from this skill training program.

Training session is conducted by Mr. Sandip Sonaskar, Director V. S. Informatics Pvt. Ltd. Nagpur. In this training sessions, they cover Getting Started with ESP8266, Recent Trends, Modules and Sensors, Getting Started with Raspberry pi, Project Work on ESP32 and Raspberry pi, Other Projects Discussion and Practical and various examples on the mentioned topics.

The 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, ETC Department & Dr. Vivek Kapur, Director, GHRIET, Nagpur.

Alumni Interaction by Mr. Abhipray Dhobale





Department of Electronics & Telecommunication Engineering of G H Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for B. Tech 5th and 7th semester students on 13th September 2022.

The alumni Mr. Abhipray Dhobale a 2022 batch pass out student, currently working in Lifeline Systech solutions as a Graduate Trainee Engineer.

He shared his company experience, different software skills needed to join company, how to prepare for aptitude. 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. Abhipray Dhobale. 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

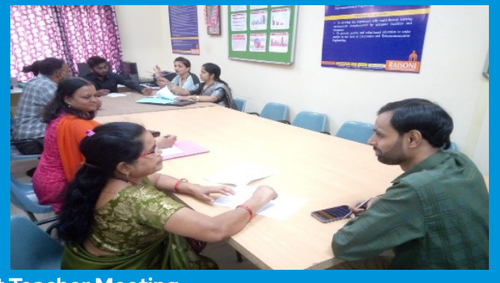
First Parents Teacher Meeting was organized by Department of Electronics & Telecommunication Engineering on 15/10/2022 at 11.00 AM. The main purpose of meet was to create a common platform, where teacher and parents come together to enrich the student’s educational experiences and discuss variety of 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 35 parents attended the meeting in HOD Cabin.

Ms. Prajakta Upadhye, Class Teacher 3rd sem briefed about the attendance status, CAE-I result and overall attendance of 3rd sem to the parents of their wards.

Ms.Priyanka Chopkar 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.





Glimpses of Parent Teacher Meeting

Alumni Interaction by Mr. Abhipray Dhobale

Department of Electronics & Telecommunication Engineering of G H Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for B. Tech 5th and 7th semester students on 18th October 2022.The alumni Ms. Rupal Shaw a 2022 batch pass out student, she is preparing for CDS (Common Defence Service Examination).

She shared her knowledge about CDS examination and suggest some books to prepare for this exam. She told student this exam is for both male and female which is conducted by the

UPSC twice in a year to recruit candidates to fill the vacant posts of Indian Military Academy, Indian Naval Academy, Officer training academy and Indian Air Force Academy. Interactive session was done between students and alumni, Ms. Rupal Shaw. 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. Karan Yadav

Department of Electronics & Telecommunication Engineering of G H Raisoni Institute of Engineering & Technology, Nagpur has organized alumni interaction session for B. Tech 5th sem on 28th October 2022.

The alumni Mr. Karan Yadav a 2021 batch pass out student, currently working in Role to Win- India as a Sr. Tester(GQA) at Bangalore.

He shared his college and company experience, different software skills need to join company, how to prepare for aptitude. He told to student's importance of technical event and motivate students to participate and organized different technical events under student forum. He informed to students, college support financially to students who participated in project and paper presentation at IIT and NIT. Interactive session was done between students and alumni, Mr. Karan Yadav. 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.





Peer Teaching on topic "GATE related Questions on Analog Integrated Circuits" Organized by ETC department for students of 3rd Sem GHRIET, Nagpur









Peer teaching was organized on 18/11/2022 by Department of Electronics & Telecommunication Engineering for students of 3rd Sem ETC at GHRIET, Nagpur. The lecture was on Analog Integrated Circuits subject. The lecture was delivered by Ms. Samrudhi Bhoyar student of 5th semester Electronics and Telecommunication Engineering, GHRIET. This lecture helped the students to understand the concepts regarding GATE numerical and how to solved. During his lecture she have covered all the numerical available in GATE previous questions papers.

The peer teaching concluded with a question answering discussion, during which the Ms. Samrudhi Bhoyar responded to all the questions asked by the students. Total 49 students had attended this peer teaching. Students also learned immensely from the information and expertise provided by the 5th sem student. Feedback has taken from the students and its impact analysis gives the good results. Students requested to have such more session in future.

Ms. Priyanka Chopkar coordinated this peer teaching under the guidance of Dr. Devashree Marotkar, Head of Department ETC and Dr. Vivek Kapur, Director of GHRIETN.