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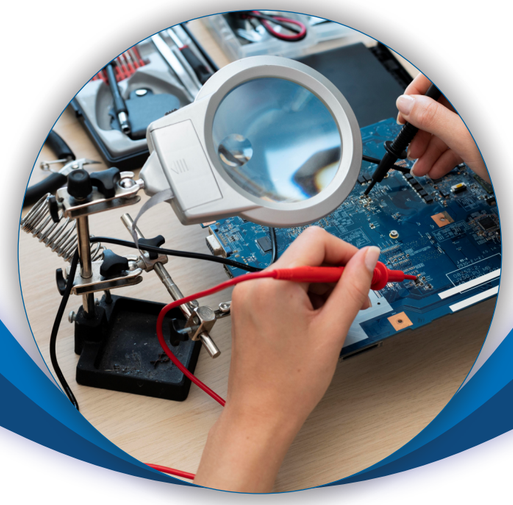
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Department of Electronics & Telecommunication Engineering



ELECTRONICA

NEWSLETTER

2023-24 **Vol.-3, Issue-1**

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

EDITORIAL PANEL

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.

Installation of Student Forum “HEARTZ”



Glimpses of HEARTZ

Department of Electronics & Telecommunication Engineering of G.H. Raisoni Institute of Engineering and Technology, Nagpur organized the installation ceremony student forum “HEARTZ” on 19th August 2023. The program was inaugurated with Saraswati Vandana followed by welcome dance performed students of ETC Department, Ms. Preet Vishwakarma along with groups.

The forum President Mr. Sanjog Shirode addressed students with his future plan. Ms. Shubhangini Ugale, HEARTZ forum incharge explained importance of forum to the students and encourage them to participate & coordinate different activities conduct at departmental as well as college level. Badges distribution ceremony for elected core members of HEARTZ committee and President and Vice President of Photography, Drone and Robotics club has been done.

Dr. Devashree Marotkar, HOD of ETC department congratulated all office bearers and given best wishes for their future. Dr. Vivek Kapur, Director of GHRIETN enlightened the students with his words of wisdom and he put forward his expectations from them. Mr. Devkumar Haladkar, Vice President of HEARTZ committee proposed the vote of thanks.

Skill Training Program on “Industrial Approach in Electronics”

Electronics & Telecommunication Engineering Department of G. H. Raisoni Institute of Engineering & Technology, Nagpur had organised Three days Students skill training program on “Industrial Approach in Electronics” from 7th August to 9th August 2023 for B. Tech. 2nd year (ETC) Students. Total 60 Students had attended and benefited from this skill training program.

Training session is conducted by Mr. Sanjay Chaudhari Sir of Electronics Study Centre, Nashik. In this training sessions, they cover all the components Identification & Testing practice of electronics, PCB Designing, Assembling, Soldering, desoldering Tips and Techniques, Practice, Project Construction 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 & Dr. Sanket Kasturiwala 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

Online Expert Lecture on topic "Spread Spectrum Techniques” Organized by ETC department for students of 5th Semester GHRIET, Nagpur

Online expert lecture was organized on 11/09/2023 by Department of Electronics and Telecommunication Engineering for students of 5th Semester ETC at GHRIET, Nagpur. The lecture was on Digital Communication subject which was conducted online on Webex. The lecture was delivered by Dr. Bijayananda Patnaik working as an Associate Professor at National Institute of Technology, Raipur in the Department of Electronics and Telecommunication Engineering. This lecture helped the students to understand the various concepts regarding Spread Spectrum Methods, during the session sir has covered topic such as PN Sequence, Direct Sequence Spread Spectrum, Frequency Hopping, slow and fast frequency hopping, concept of Jamming and Performance analysis and GNU Radio.

The expert lecture concluded with a question answering session, during which the expert Dr. Bijayananda Patnaik has addressed all the queries asked by the attendees. Total 56 students were present in the session. Students also learned immensely from the information and expertise provided by the expert. Feedback has taken from the students and its impact analysis gives the satisfactory results. Students requested to have such more session in the future.

Dr. Ravi Mishra & Mr. Purushottam Y. Chawke coordinated this expert lecture under the guidance of Dr. Devashree Marotkar, Head of Dept. ETC & Dr. Vivek Kapur, Director of GHRIETN.

Expert Lecture of on topic " PLL 565 and IC 555" for the course Analog Integrated Circuits organized by ETC department for students of 3rd Semester ETC, GHRIETN

Expert lecture was organized on 12/09/2023 by Department of Electronics & Telecommunication Engineering for students of 3rd Semester ETC at GHRIET, Nagpur in Room No.303. The lecture was on the course Analog Integrated Circuits. The topic of the expert lecture was "PLL 565 and IC 555".

The lecture was delivered by Dr. Pradnya Ghare, Assistant Professor at VNIT, Nagpur in Electronics & Telecommunication Engineering Department. This lecture helped students to understand the internal circuit and working of IC 555, its various modes of operation, applications of IC 555, internal circuit and working of PLL, VCO and their applications.

The expert lecture concluded with a question answer session, during which the expert Dr. Pradnya Ghare addressed all the queries asked by the students. Total 54 students were present in the session. Students also learned immensely from the information and expertise provided by the expert. Feedback has taken from the students and its impact analysis gives the satisfactory results. Students requested to have such more session in the future.

Dr. Swati Dixit, Course Teacher and Dr. Ravi Mishra, Event Coordinator coordinated this expert lecture under the guidance of Dr. Devashree Marotkar, Head of Dept. ETC and Dr. Vivek Kapur, Director of GHRIETN.





Expert Lecture on the topic "Introduction to LPC 2148" Organized by ETC department for students of 5th Semester GHRIET, Nagpur

Online expert lecture was organized on 12/09/2023 by Department of Electronics and Telecommunication Engineering for students of 5th Semester ETC at GHRIET, Nagpur. The lecture was on Embedded System Design and RTOS subject which was conducted on 12/09/2023. The lecture was delivered by Dr. Ankit Bhurane working as an Assistant Professor at Visvesvaraya National Institute of Technology (VNIT Nagpur) in the Department of Electronics and Telecommunication Engineering. This lecture helped the students to understand the various concepts regarding LPC 2148, during the session Sir has covered various topics such as Features of LPC 2148, Comparison between CISC and RISC Processor, Creating Hex file using Proteus Software, GPIO of LPC 2148, Concept of Pin connect block & Pin Configuration of LPC 2148.

The expert lecture concluded with a question answering session, during which the expert Dr. Ankit Bhurane has addressed all the queries asked by the attendees. Total 56 students were present in the session. Students also learned immensely

from the information and expertise provided by the expert. Feedback has taken from the students and its impact analysis gives the satisfactory results. Students requested to have such more session in the future.

Dr. Ravi Mishra coordinated this expert lecture under the guidance of Dr. Devashree Marotkar, Head of Dept. ETC and Dr. Vivek Kapur, Director of GHRIETN.





Industrial Visit Report at Lokmat Printing Press

Department of Electronics & Telecommunication Engineering, GHRIET Nagpur had organized One Day Industrial Visit at Lokmat printing Press, Butibori on dated 09/09/2023 for 5th semester ETC students.

During this industry visit students get exposure to printing industry. The Lokmat Press is one of the leading newspaper industry in Maharashtra, with a rich history of providing quality journalism to its readers. As part of our academic curriculum, our department had the privilege of visiting the Lokmat Press located in Butibori, Maharashtra 441122. The objective of the industrial visit was to gain insight into the functioning of a renowned newspaper company, understand the newspaper production process, and observe the use of modern technology in journalism.

Total 24 students from 5th semester were present for this industrial visit.

This industrial visit befitted students for their overall development. Industrial visit in-charge Mr. P. Chawke and Mr. V. Jaiswal worked hard for success of the visit under guidance Dr. Devashree Marotkar HOD, ETC Engg. Department.

Dr. Vivek Kapur Director GHRIET provided all necessary support for the visit.





Industrial Visit Report at MRSAC Nagpur

Department of Electronics & Telecommunication Engineering, GHRIET Nagpur had organized One Day Industrial Visit at Maharashtra Remote Sensing Application Center (MRSAC) Nagpur on dated 27/09/2023 for 7th semester ETC students.

MRSAC is a well-established premier institution and recognized as one of the best State Centre in Natural Resource Monitoring and Management by offering innovative, effective & optimal solution. MRSAC is a "Nodal Agency" for developing a Maharashtra Geo-Spatial Digital Database System-(MGDDS) for Govt. of Maharashtra and works in coordination with Planning Department, GoM. The Centre is keeping in pace with cutting-edge technology in the field of RS-GIS, GPS, 3D-technology, Radar, Lidar, Web-GIS, Cloud Computing. Now the Centre has highly specialized dedicated computer labs as 3D-Photogrammetry lab, Drone data processing Lab, Web-portal and web-site generation lab. The objective of this visit was to gain how satellite data is processed and this data used in the various applications and also used for well-being societies and farmers.

Total 60 Students from 7th semester were present for this industrial visit. This industrial visit benefitted students for their overall development. Industrial visit in-charge Mr. P. Chawke and Mr. V. Jaiswal worked hard for success of the visit under guidance Dr. Devashree Marotkar HOD, ETC Engg. Dept. Dr. Vivek Kapur Director GHRIET provided all necessary support for the visit.





FUTSAL Inter College Tournament-23

Electronics & Telecommunication Engineering and Sports Department of G. H. Raisoni Institute of Engineering & Technology, Nagpur had organised Two days Inter College Futsal Tournament from 4th November & 5th November 2023. Total 10 Teams of different colleges from Nagpur were participated.

Futsal Tournament were inaugurated by Dr. Vivek Kapur, Director, GHRIET, Dr. Devashree Marotkar, HOD, ETC Department and Dr. Inderjeet Randhawa, Sports Officer, RGI and other dignitaries from various department.

Total 10 teams were participated in this Tournament, each team contains (5+3) players. Total 15000 cash prize awarded for winners. First Winner was from PWS College, Second Team from City Premier College and Symbiosis University Nagpur and GHRIET were declared combined third place finisher.The Tournament was organized under the guidance of Dr. Devashree Marotkar, HOD, ETC Department, Mr. Purushottam Chawke and Dr. Inderjeet Randhawa, Sports Officer, RGI. Amit Pandey, Deugesh Shah, Soneshwar Kamble, Nilesh Khatkhede work hard for the success & Dr. Vivek Kapur, Director, GHRIET, Nagpur gave valuable support to the event.





Glimpses of Futsal Tournament

Parent - Teacher Meet

First Parents Teacher Meeting was organized by Department of Electronics & Telecommunication Engineering on 16/09/2023 at 10.30 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.





Industrial Visit Report at Shivam Food (Parle-G) Nagpur

Department of Electronics & Telecommunication Engineering, GHRIET Nagpur had organized One Day Industrial Visit at Shivam Food (Parle-G) Nagpur on dated 13/10/2023 for 3rd semester ETC students.

Since 1929, Parle-G have grown to become India's leading manufacturer of biscuits & confectionery. As the makers of the world's largest selling biscuit, Parle-G, and a host of other very popular brands, the Parle name symbolizes quality, nutrition and superior taste. The supervisor Mr. Shivam Petkar briefed about History of Parle Biscuits. He also discussed all Best HR Practices carried out in Parle Plant such as Visit to Employee's Home, Visit to Old Age Home, Celebration of Birthday's of Employees etc. The Video of all Manufacturing Processes of various products of Parle were shown, from Raw Material to Final Packaging. Then all students were taken to shop floor to see all the operations of Biscuits Manufacturing and confectionary unit. Students witnessed every process from mixing the ingredients to dough making, moulding, heating, cooling and packaging at the plant. The entire plant was automatically controlled by PLC.

The main objective behind this Industrial Visit was to bridge a communication between students and Industries, to make students familiar with industrial operations and to encourage them to gain practical knowledge. The visit was helpful for the students to understand automation and control of the food process industry.

Total 60 Students from 3rd semester were present for this industrial visit. This industrial visit benefitted students for their overall development. Faculty coordinator Ms. Priyanka Chopkar and Ms. Prajakta Upadheye worked hard for success of the visit under guidance Dr. Devashree Marotkar HOD, ETC Engg. Department. Dr. Vivek Kapur Director GHRIET provided all necessary support for the visit.

One day Drone (Pluto-X) Flying Training is organised at Department of Electronics and Telecommunication Engineering in GHRIET, Nagpur.





Drone and Robotics Club of Electronics and Telecommunication Department has organised one day Drone (Pluto-X) Flying training on 16th Oct. 2023 for I semester students of Electronics and Telecommunication Engineering. The session was conducted by Faculty In charge and Committee members of Drone and Robotics Club.

This training was dedicated to piloting the drone which is a very impartment skill. The drone flying training is started with introduction to various part of Pluto X. The various operation like pitch, yaw, and throttle were discussed. The participant got practiced these operations several times, as without the experience and practice, the drone might hit any solid object. Once the participants got confidence, then hands on training is provided to the participants. The participants showed great enthusiasm during the entire training.

The session concluded with students expressing their satisfaction. Around 45 students have attended the session. 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.

Industrial Visit Report at RMC Nagpur

Department of Electronics & Telecommunication Engineering, GHRIET Nagpur had organized One Day Industrial Visit at Regional Meteorological Center (RMC) Nagpur on dated 18/10/2023 for 7th semester ETC students.

Regional Meteorological Center is responsible for the distribution of information, advisories, and warnings regarding the specific program. Its main purpose is to warn against severe weather phenomena like tropical cyclones, norwesters, dust storms, heavy rains and snow, cold and heat waves, etc., which cause destruction of life and property.

The objective of this visit was to gain the knowledge about automatic weather forecasting station and Doppler RADAR system operation. The student also studied the simulation of various atmospheric parameter and how this simulation data is used in various applications and also used for well-being societies and farmers.

Total 63 Students from 7th semester were present for this industrial visit. This industrial visit benefitted students for their overall development. Industrial visit in-charge Mr. P. Chawke and Mr. V. Jaiswal worked hard for success of the visit under guidance Dr. Devashree Marotkar HOD, ETC Engg. Department. Dr. Vivek Kapur Director GHRIET provided all necessary support for the visit.

PEER TEACHING






Peer teaching was organized on 18/11/2023 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.

Three Days FDP on "Internet of Things (IOT)"organised by Department of Electronics and Telecommunication Engineering in GHRIET, Nagpur









Department of Electronics & Telecommunication Engineering, in collaboration with Sadabai Raisoni Women's college, Nagpur had organized three days faculty development program on "Internet of Things (IoT)" from 20th to 22nd December 2023

The session was conducted by departmental faculties Dr. Sanket Kasturiwala, Ms. Prajakta Upadhye and Mr. Vishal Jaiswal The main objective of this FDP is to make faculty comfortable dealing with IOT, Arduino, Tinkercad and different kinds of sensors It was organised in such way that, faculties could get hands-on experience on current industry technologies.

Program was design in a such way that, participant had a three day continuous hands-on sessions Participant gained valuable hands on experience with the help of relevant software & development boards.

Faculties from Sadabai Raisoni Women's college Nagpur and GHRIET, Nagpur had participated and benefited from this FDP.

The first day started by Ms. Prajakta Upadhye with very basic idea of IOT and getting started with Arduino She highlighted the importance of IOT and gave idea about how IOT is helpful in different sector In second session, Dr. Sanket Kasturiwala shared his knowledge with participant about Tinker CAD He also conducted hand on session on Tinker CAD which helped to make subject fully understand and created interest among the participant.

Second day, in first session Mr. Vishal Jaiswal explained the different kinds of sensors and their day to day life example In the second session, participant performed hands on practical with Arduino board and sensors such as water level sensor and ultrasonic sensor and PIR sensor.

On the Third day, in first session, Dr. Sanket Kasturiwala explained Bluetooth circuit and participant implement the same circuit with

arduino board And controlled LED using mobile APP Then Ms. Prajakta Upadhye describe about Node MCU ESP8266 and give hands-on training to participant for making the soil moisture circuit At last quiz was conducted based on the topics taught in last three days Every faculty members gave good response to this Quiz.

The FDP was concluded by the valedictory function The oral feedback was taken from few participants and participants were quite satisfied with the contents of the FDP The certificates were distributed to all the participants with the hands of Dr. Devashree Marotkar and lastly vote of tanks was proposed by Ms. Prajakta Upadhye.

Around 25 Faculties had participated in this FDP Ms. Prajakta Upadhye co-ordinated this program under the guidance of Dr. Devashree Marotkar, Head of Dept Electronics and Telecommunication Engineering and Dr. Vivek Kapur, Director of GHRIET, Nagpur.