

Department of Electronics & Communication Engineering

SPECTRUM

Strive For Excellence

Technical Magazine

Session 2022-23



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TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

Approved by AICTE, New Delhi and Govt. of Maharashtra | An ISO 9001:2015 Certified Institution
Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur



— AN AUTONOMOUS INSTITUTE —

Vision of the Institute

- ❖ To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

Mission of the Institute

- ❖ To strive for rearing standard and stature of the students by practicing high standards of Professional ethics, transparency and accountability.
- ❖ To provide facilities and services to meet the challenges of Industry and Society.
- ❖ To facilitate socially responsive research, innovation and entrepreneurship.
- ❖ To ascertain holistic development of the students and staff members by inculcating Knowledge and profession as work practices.

Vision of the Department

- ❖ To emerge as a learning Hub and center of excellence in the domain of Electronics and Communication Engineering.

Mission of the Department

- ❖ To impart quality technical education through effective teaching learning process.
- ❖ To provide a platform for addressing societal issues & challenges encountered by industries
- ❖ To foster a culture of research & instill innovative & entrepreneurial skills.
- ❖ To promote lifelong learning in order to foster the holistic development of students & staff through the knowledge & professional ethics.

PEO's & PSO's

PEO's

Graduates will be able to

PEO 1: Demonstrate essential technical skills to identify analyze and solve problems and design issues in Electronics and Communication Engineering.

PEO 2: Apply field knowledge, research and professional practices to meet the requirements of industries.

PEO 3: Imbibe lifelong learning practices and entrepreneurship skills in tune with emerging technologies.

PEO 4: Inculcate professional ethics and managerial skills to satisfy real life problems for serving the needs of society and environment.

PSO's

Graduates will be able to

PSO 1: Formulate solutions to intricate engineering problems by applying fundamental principles from the Electronics and Communication Engineering technology.

PSO 2: Develop methodologies to analyze and design circuits in electronics for communication applications to meet the societal needs

PSO 3: Implement project-based learning techniques to conduct experiments in Embedded Systems, communication system, signal and Image processing, Circuit analysis and design to work.

Program Outcome

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 analyze 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 modeling 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.



About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self-financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and disapproved by All India Council for Technical Education, New Delhi. Also, the college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

The College offers four years UG programs in nine disciplines of engineering viz. Bio-Technology (B.Tech), Aeronautical Engineering (AE), Computer Science and Engineering (CSE), Information Technology (IT), Electronics and Communication Engineering (ECE), Mechanical Engineering (ME), Civil Engineering (CE), Electrical Engineering (EE) Computer Science and Engineering (Data Science).

TGPCET offers eight PG programs in engineering viz. Computer Science and Engineering (CSE), Integrated Power System (IPS), Structural Engineering (SE), Electronics and Communication Engineering (ECE), Artificial Intelligence, Machine Learning (AIML) & Mechanical Engineering design (MED), Aeronautical Engineering (AERO) and Electric Vehicle (EVT) and also offers two years PG programs in Master of Business Administration (MBA) as well as two years Master in Computer Application (MCA).

In addition, TGPCET conducts three years Diploma programs in six disciplines of engineering such as Civil Engineering (CE), Mechanical Engineering (ME), Computer Science and Engineering (CSE) and Electrical Engineering (EE), Electronics and Communication Engineering (ECE) and Information Technology (IT).

College is located in the midst of Multimodal International Cargo Hub and Airport (MIHAN) and also in the vicinity of Butibori Industrial area, Nagpur.

College offers additional courses beyond syllabus to expose the students towards the industrial climate by conducting courses in C++ with PYTHON, C#.NET, Java, Oracle-SQL and Administration, CCNA, PLCSCADA, MATLAB, AUTOCAD, STAADPRO, CREO, PHP.

The college has signed MoU with Charusat University, Gujarat, Dr. Panjabrao Deshmukh Krishi Vidyapeeth (PDKV), Akola and Vignana's University, Guntur to excel the academic and research capability of staff and students in the emerging fields of Science, Engineering and Agriculture.



About Us

Established with B.Tech ECE in the year 2007-08 with an intake of 60. It has been one of the key departments, active in teaching and research since its inception in 2007. It has well qualified and experienced faculty with novel teaching methods.

Research and training activities are based on VSAT, Atmel, μP & μC and SATCOM laboratories. A separate computing facility has been established to carry out project work and design jobs taken up by the department.

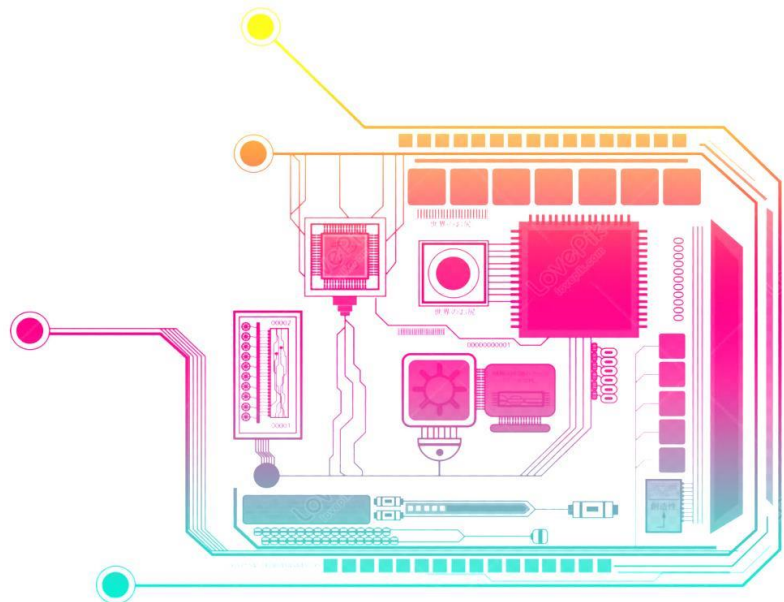
The Department has a state-of-the-art Microwave & Radar Engineering Laboratory in addition to well-equipped laboratories in the areas of Electronic Devices, Communication Engineering, Digital Signal Processing, Microprocessor and Microcontroller and Digital Electronics.

The department has Industry Institute Partnership Cell (IIPC) which aims to establish and explore proper links with various departments, agencies and industries all over the country. It also aims to work in close coordination with the industries and organizations for placement and training of the students, to support R & D and sponsored projects from industries, to exchange personnel between the Industries and the Institute by organizing guest lectures by Industrial experts, evaluation of project work, development of curriculum as per industry needs and other academic work in the Institute.

The sponsored project of our students “GSM Based Automatic Response System for Locomotive Trouble Shooting” designed for the three phase locomotives WAG 9 / WAP 5 / WAP 7 in Indian Railways, started under the guidance of TRO dept. of Central Railway Commission in Nagpur Division is appreciated by General Manager, Central Railways Mr. Subodh Jain in Ballarshah during his annual inspection of Ballarshah-Sevagram section and is practically implemented in Nagpur division.

The project was published in BPQ – SEGM section Booklet-B: Performance Parameter of Central Railway, Nagpur on 17th January 2012.

Student of ECE Department won 2nd Prize in XVIIth ISTE Student National Annual Convention for best Engineering Project at Rajkot.



Dear Esteemed Readers,

It is with great pleasure and pride that I extend my warmest greetings to you through the pages of this esteemed technical magazine. As the Head of the Electronics & Communication Engineering Department, I am thrilled to share some of the extraordinary accomplishments that our department has achieved over the past year.

Our commitment to excellence in education and research is reflected in the numerous awards earned by both our students and faculty members. This accomplishment not only showcases the dedication of our students but also speaks volumes about the quality of education and resources provided by our department.

I am delighted to announce that our department has consistently produced university toppers, exemplifying the academic prowess of our students. This is a testament to the high standards we maintain in our teaching methodologies, as well as the continuous support provided to our students to help them excel in their academic pursuits.

Furthermore, our faculty members have actively engaged in efficient projects, contributing significantly to the body of knowledge in Electronics and Communication Engineering. Their research endeavors have not only garnered attention within our academic community but have also made a valuable impact on the wider field.

As we celebrate these achievements, it is important to recognize that they would not have been possible without the collective efforts of our dedicated students, passionate faculty members, and the unwavering support from the institute administration and management.

Looking ahead, we remain committed to fostering an environment of innovation, excellence, and continuous learning within our department. We are determined to build on our successes and overcome new challenges, with the ultimate goal of contributing meaningfully to the advancement of Electronics and Communication Engineering.

I extend my heartfelt gratitude to everyone who has been a part of this incredible journey, and I invite you to delve in to the pages of this magazine to explore the depth of our achievements and the promising future that lies ahead.

Warm regards,

Dr. Sanjay Asutkar

Head of Department Electronics and Communication
Engineering Department Tulsiramji Gaikwad Patil
College of Engineering and Technology, Nagpur



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8.	Faculty achievements



Message Display System for Mute People with Hand Gesture

Mr. Aditya Patil Mr. Roshan Kathane Ms. Ashvini Janbandhu
 Ms. Priyanka Rahangale Ms. Divyani Gulhane

ABSTRACT

IoT has been a great area of exploration for furnishing excellence in area of designing smart metropolises and intelligent systems. Energy theft from standing vehicles is a major problem which can be veritably fluently resolved using this fashion. In this paper we've proposed a system for Message Display system for mute people using the conception of IOT as well as Hand Gesture. The system has shown veritably good results as compared to others.

Objective

- ❖ To design the handy and wearable system
- ❖ To design the hand gesture based voice playback system
- ❖ To develop the communication between Deaf and Dumb People & Normal People.



DEAF AND DUMB INDUSTRIAL INSTITUTE
 North Ambazari Road, Shankar Nagar Square, Nagpur-10
 P.T. Regd. No. F-567(N) ddingp1@gmail.com
 Ref. No. DDI/12/2023-24 Date:20/04/2023

Sponsorship Letter

I am glad to inform you that the Final year students of Department of Electronics & Communication Engineering of Tulsiramji GaiKWAD-Patil College of Engineering and Technology prepared project in the academic session 2022-2023.

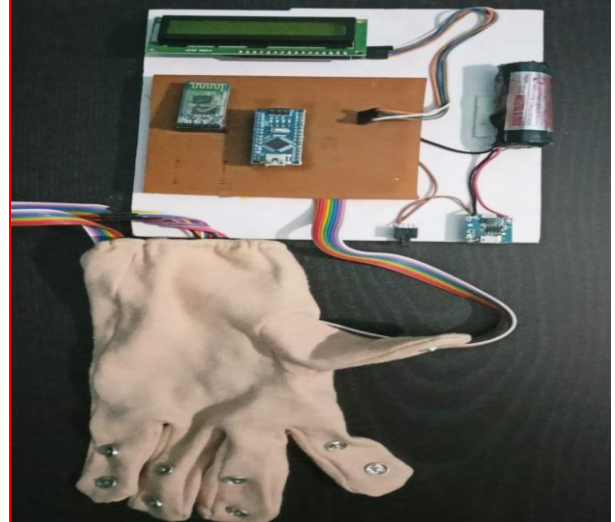
In academic curriculum students have project, so in view of Hearing impaired Divyang students, are preparing project name as "Message Display system for Mute People with hand Gesture" So this project helpful for Deaf & Dumb students of our school. Students are giving live demo of this project before students and staff members of school.

As this project is helpful for our students so we give sponsorship letter from our school to name of these Projectees.

Projectees Name: Roshan Kathane, Aditya Patil, Divyani Gulhane, Priyanka Rahangdale, Ashwini Janbandhu.

Respectfully,

Dr. Meenal Sudhir Sangole
Dr. Meenal Sudhir Sangole
 (Principal)
 Deaf & Dumb Industrial Institute
 Shankar Nagar, Nagpur- 10.



“Enhanced Version of Smart Blind Spectacle for Blind People By Using Arduino UNO”

Mr. Nihal Wanve. Mr. Abhishek Weladi. Mr. Rushabh Sathawane.
Mr. Shailesh Datarkar. Ms. Rajeshree Kuhite. Ms. Sakshi Pardhi.

Abstract:

People with visual impairment encounter a variety of difficulties in their everyday lives since current assistive technology frequently falls short of consumer expectations in terms of cost and amount of aid. This research introduces a brand-new style of assistive smart glasses for blind pupils. The Arduino uno is powered by the power source. The ultrasonic sensor, control module, and Speaker that make up the obstacle detection module's processing and output units are its essential components. The control unit operates the ultrasonic sensors, gathers data about the barrier in front of the person, analyses the data, and then outputs the appropriate output through the buzzer. The blind could effortlessly navigate and avoid hazards with the aid of these spectacles.

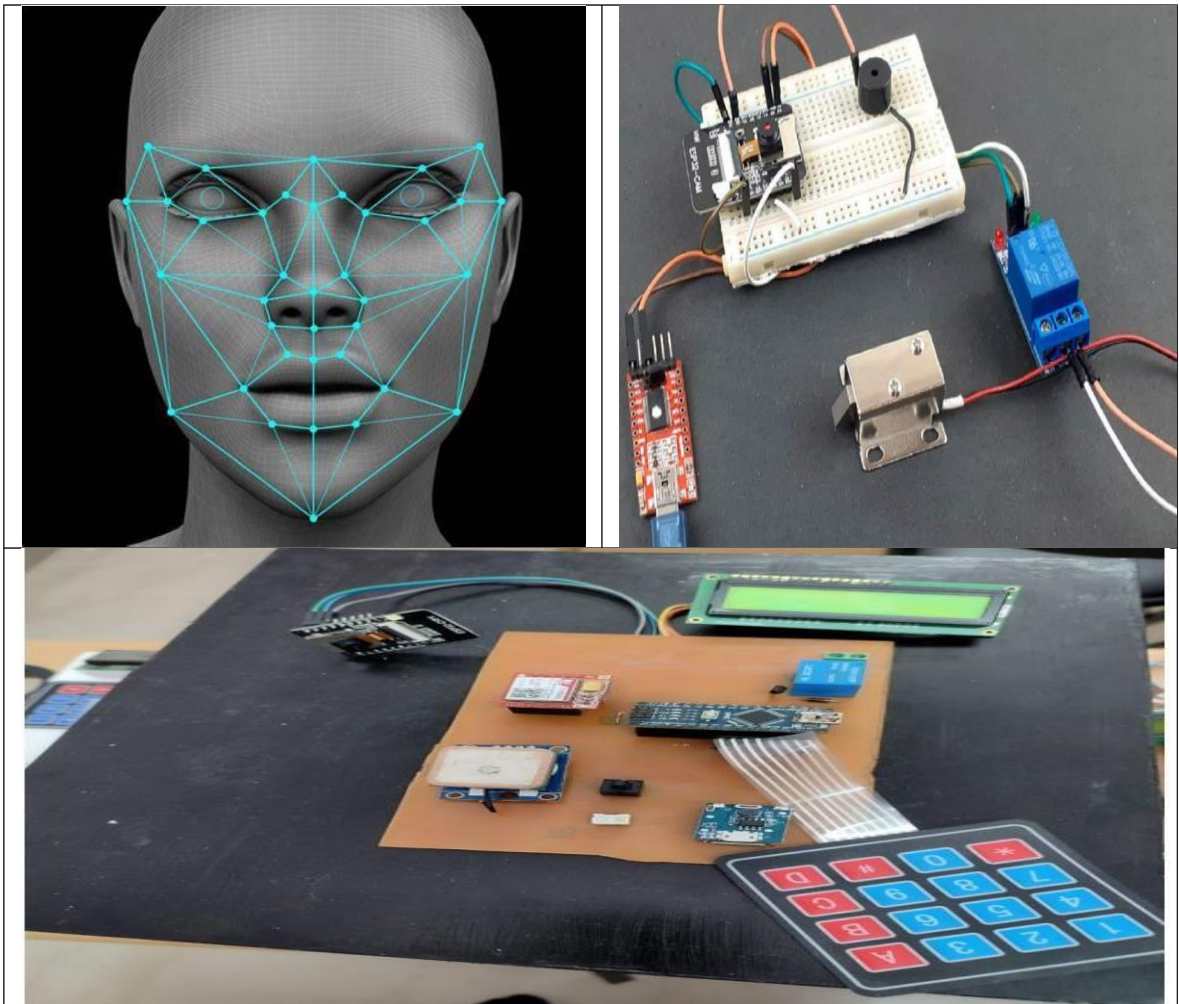


“Bike Antitheft Safety System Using Face Recognition & GPS Technology”

Mr. Akhil Bisen Mr. Rohit Bhaisare Mr. Vaibhav Kakde
Mr. Hirendra Saud Ms. Ankita kadak

Abstract:

Bike theft is a serious problem in many parts of the world, and traditional locking mechanisms are not always enough to deter thieves. Therefore, we propose a bike antitheft system using face recognition and GPS technology that can help prevent bike thefts. The system uses an Arduino Nano, an ESP32-CAM module, a GSM module, and a GPS module to provide a comprehensive solution for bike security.



Student Corner: Best Student Projects

Sr. No.	Name of Project Group Leader	Group Members Name	Guide Name	Title of Project	Remark
1	Abhishek Weladi	1.Mr. Aditya Patil 2.Mr. Roshan Kathane 3.Ms. Ashvini Janbandhu 4.Ms. Priyanka Rahangale 5.Ms. Divyani Gulhane	Prof. Rahul Dhutture	Enhanced Version of Smart Blind Spectacle For Blind People by Using Arduino UNO	Research Based
2	Aditya Patil	1.Mr. Nihal Wanve. 2.Mr. Abhishek Weladi. 3.Mr. Rushabh Sathawane. 4.Mr. Shailesh Datarkar. 5.Ms. Rajeshree Kuhite. 6.Ms. Sakshi Pardhi.	Prof. Sandeep Thakre	Message Display System For Mute People With Hand Gesture	Innovative Social
3	Komal Malewar	1. Mr. Komal Malewar 2. Mr Yogesh Kolhatkar 3. Ms. Rupali Raut 4. Ms. Payal Janbandhu 5. Mr. Mohnish Shinkunwar	Dr. Pravin Tajne	IOT Based GRID Cut Off System	Industry Based
4	Rohit Bhaisare	1. Mr. Akhil Bisen 2. Mr. Rohit Bhaisare 3. Mr. Vaibhav Kakde 4. Mr. Hirendra Saud 5. Ms. Ankita Kadak	Prof. Kushal Masarkar	Bike Antitheft System Using Face Recognition & GPS Technology	Research Based
5	Vijeta Hedao	1.Ms. Komal Gaikwad 2.Ms. Prajakta Gholse 3.Ms. Vaishnavi Bhavaskar 4.Ms. Vijeta Hedao	Prof. Rohini Pochhi	IOT Based Water Leakage Detection and Monitoring System	Application Based

Sr. No.	Name of the Faculty	Title of Paper	Volume /Issue ISSN/ ISBN/DOI	Details of Journal	Indexing (Web of Science/Scopus/ UGC Care/ Peer Reviewed)
1	Dr.Sanjay Asutkar	Designing Energy Efficient under water Wireless Sensor Network for Secure Communication.	ISSN No. : 23191775, Volume 11, Issue : 10, October 2022.	International Journal of Food and Nutritional Sciences (IJFANS)	Peer Reviewed
2	Dr. Bharti Sayankar	Implementation of FPGA based hardware/software co-design SoC for median filter.	Volume 2753, Issue 1 24 April 2023	Advances in material science and manufacturing engineering. (Research Article), AIP Conference Proceedings	<u>Google Scholar</u>
3	Prof. Rohini Pochhi	Design and Implementation of Multiple Sensor For Data Broadcasting using 29 Bit CAN (Controller Area Network) Bus”	Volume 13 /Issue 10, ISSN/ISBN/ 1012-3407, DOI 2023	Journal of Technology (JOT)	Peer Reviewed
4	Prof. Rohini Pochhi	Smart Helmet Base Alcohol Detection and Auto Ignition Control System	Vol. 7, No. 4, 2022, PP. 79-82 e-ISSN: 2456-3463	International Journal of Innovations in Engineering and Science, www.ijies.net	Peer Reviewed
5	Prof. Rohini Pochhi	Water Leak Detection System by Flow Meter Sensor for a Sustainable Future with IOT Integration	Volume 05, Issue 04, ISSN:2582-5208, April 2023	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)	Peer Reviewed

6	Prof. Rahul Dhutire	Design and Implementation of Development Solar Generating Module for High-Efficiency Solar Energy Station	Volume 23 /Issue 10, ISSN/ISBN/100 6-8341 DOI 2023	Journal of Basic Science (JBS)	Peer Reviewed
7	Prof. Rahul Dhutire	Analysis and Secure Medical Data Transmission Using Wireless Network with QR Code	Volume 10, Issue 04, ISSN:2349-6002, 2023	International Journal of Innovative Research in Technology (IJIRT)	Peer Reviewed
8	Prof. Rahul Dhutire	Enhanced Version of Smart Blind Spectacle for Blind People by using Arduino UNO	Volume 05, Issue 04, ISSN:2582-5208, April 2023	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)	Peer Reviewed
9	Prof. Kushal Masarkar	Bike Antitheft and Safety System Using Face Recognition and GPS Technology.	Volume 05, Issue 04, ISSN:2582-5208, April 2023	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)	Peer Reviewed
10	Prof. Suraj Mahajan	GSM Based Smart Loaded Vehicle Systems	Volume 05, Issue 04, ISSN:2582-5208, April 2023	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)	Peer Reviewed

Research Corner: Student Publications

Sr. No.	Name of Student	Year	Name of Events	Position/Remark	Event Organized By
1	Komal Malewar, Mohnish Sunkinwar, Yogesh Kolhatkar, Payal Janbandhu, Rupali Raut	IOT Based Grid Cutoff System	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
2	Kiran Wanole, Shivani Ingle, Rahul Lakde, Megha Kamble, Ankita Bawane	Smart Saline Monitoring System	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
3	Roshan Kathane, Aditya Patil, Divyani Gulhane, Priyanka Rahangdale, Ashwini Janbandhu	Message Display System for Mute People with Hand Gesture	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
4	Roshan Katahne, Aditya Patil, Ashwini Janbandhu	Project Competition	Interdepartmental Level Project competition TANTRA-VIGYAN-2K23	Participated First-Winner	Tulsiramji Gaikwad Patil College of Engineering & Technology, Nagpur
5	Ishika Bhat, Karishma Gorle, Tejas Bujade, Nibhanshu Deshbratar, Pallavi Ghugare	An IoT Based Health Monitoring System with Medicine Box	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
6	Ishika Bhat, Nibhanshu Deshbratar	Technical Quiz	Quiz competition Battle of the Brains	Participated	MIT Pune
7	Komal Malewar, Mohnish Sunkinwar, Yogesh Kolhatkar, Payal Janbandhu, Rupali Raut	IOT Based Grid Cutoff System	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
8	Pushpendra Purohit, Akshay Khudsange, Nikhil Pawar, Yugeshwari Bhandakkar	IOT Based Coal Mine Safety Monitoring and Alerting System	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
9	Pushpendra Purohit, Akshay Khudsange, Nikhil Pawar, Yugeshwari Bhandakkar	IOT Based Coal Mine Safety Monitoring and Alerting System	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
10	Komal Gaikwad, Prjakta Gholve, Vaishnavi Bavaskar, Vijeta Hedaoo	IOT Based Water Leak Detection System	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals

11	Komal Gaikwad, Prjakta Gholse, Vaishnavi Bavaskar, Vijeta Hedaoo	IOT Based Water Leak Detection System	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
12	Akhil Bisen, Rohit Bhaisare, Vaibhav Kakde, Hirendra Saud	Bike Antitheft Safety System Using Face Recognition & GPS Technology	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
13	Akhil Bisen, Rohit Bhaisare, Vaibhav Kakde, Hirendra Saud	Bike Antitheft Safety System Using Face Recognition & GPS Technology	National Level Project Competition	Participated	G. H. Rasoni Institute of Engg. Tech.
14	Hirendra Saud, Vaibhav Kakde	Project Competition	Robo War	Participated	BIT , Durg
15	Akhil Bisen, Rohit Bhaisare, Vaibhav Kakde, Hirendra Saud	Bike Antitheft Safety System Using Face Recognition & GPS Technology	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
16	Kalpna Markam , Satyawati Mandiya, Pawan Chwadipande	Smart Village Using Green Energy	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
17	Kalpna Markam , Satyawati Mandiya, Pawan Chwadipande	Smart Village Using Green Energy	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
18	Sourav Halder, Suwarna Nagrale, Vishakha Gahukar, Neha Karlekar, Shivam Hanvatkar	Air Purifier	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
19	Sourav Halder, Suwarna Nagrale, Vishakha Gahukar, Neha Karlekar, Shivam Hanvatkar	Air Purifier	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
20	Sourav Halder, Suwarna Nagrale, Vishakha Gahukar, Neha Karlekar, Shivam Hanvatkar	TANTRA-VIGYAN-2K23	Interdepartmental Level Project competition	Second-Prize	Tulsiramji Gaikwad Patil College of Engineering & Technology, Nagpur

21	Sourav Halder, Suwarna Nagrale, Vishakha Gahukar, Neha Karlekar, Shivam Hanvatkar	Project Competition	SPANDAN-2023	Participated	Yashwantrao Chavhan College of Engineering, Nagpur
22	Nihal Giri, Ganesh Funne, Dinesh Kumar, Dineshkumar Yadav, Yogesh Lilhare	Voice Operated Lift	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
23	Dinesh Kumar, Dineshkumar Yadav	Project Competition	Technostrom-23	Participated	Govindrao Wajari College of Engineering
24	Nihal Giri, Ganesh Funne, Dinesh Kumar, Dineshkumar Yadav, Yogesh Lilhare	Voice Operated Lift	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
25	Nihal Wanve, Abhishek Weladi, Rushabh Sathawane, Shailesh Datarkar, Rajshree, Kuhite, Sakshi Pardhi	Enhanced Version of Smart Blind Spectacle for Blind People By Using Arduino UNO	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
26	Nihal Wanve, Abhishek Weladi, Rushabh Sathawane, Shailesh Datarkar, Rajshree, Kuhite, Sakshi Pardhi	Enhanced Version of Smart Blind Spectacle for Blind People By Using Arduino UNO	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
27	Ajay Thakur, Kushal Choudhary, Jitendra Pardhi, Kunal Kawade, Raja Tembhare, Yamini Nagpure	GSM Based Smart Loaded Vehicle System	ICDTSDG-23	Published	International Conference on Disruptive Technology for achieving Sustainable Development Goals
28	Ajay Thakur, Kushal Choudhary	Project Competition	SPANDAN-2023	Participated	Yashwantrao Chavhan College of Engineering, Nagpur
29	Ajay Thakur, Kushal Choudhary, Jitendra pardhi, Kunal Kawade, Raja Tembhare, Yamini Nagpure	GSM Based Smart Loaded Vehicle System	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
30	Mr. Abhay Sakure Ms. Ravina Faye Ms. Ankita Naik Ms. Pallavi Thawkar	Voice Operated Wheel Chair For Physically Challenged	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science
31	Mr. Rahul Dhok, Mr. Aman Bagde, Ms. Charusheela Dhoke Ms. Joshana Meshram, Ms. Vanadan Ukey	Gas Leakage Detection System Using IOT	IRJMETS-23	Published	International Research Journal of Modernization in Engineering Technology and Science

Tech-Chronicle e-Journal-Session 2022-2023

Sr. No.	Paper-Id	Name of Student	Guide Name	Branch	Title of Paper
1	TECH-CHRONICLE 06-39-2023	Shruti Meshram	Prof. Rohini Pochhi	ECE	Pneumonia Detection Using Chest X-Ray Images
2	TECH-CHRONICLE 06-40-2023	Chhaya Farade	Prof. Rohini Pochhi	ECE	Review Paper on Design and Implementation of CAN Bus Application Layer Protocol for Vehicle Control System
3	TECH-CHRONICLE 06-41-2023	Aditi Madavi	Prof. Rahul Dhutur	ECE	Analysis and Secure Medical Data Transmission Using Wireless Network with QR Code
4	TECH-CHRONICLE 06-42-2023	Amol Kharabe	Prof. Rahul Dhutur	ECE	Design and Implementation of Development for High – Efficiency Solar Energy Station

Technical Events (Session 2022-23)

Sr. No.	Activities	Details of Activity	Resource Person	Date of Conduction
1	Industrial Visit	Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd	Mr. Suryakant Meghe Plant Incharge	29/08/2022
2	Expert lecture	Cyber Security	Mr. Adarsh kant Sinha Director, Cyber C3	24/11/2022
3	Industrial Visit	Regional Remote Sensing Center (RRSC-ISRO), Nagpur	Mrs. Sadhna Jain Scientist Regional Remote Sensing Center	13/12/2022
4	Expert Lecture	Remote Sensing & Applications	Dr. Prakash Rao Sr. Sceintist RRSC-ISRO	13/12/2022
5	Expert lecture	Brain Signal Processing	Dr. Rambilas Pachori Proffessor, IIT Indore	13/01/2023
6	Industrial Visit	Oberoi Centre of Excellence (OCE)	Mr. Manish Wandile	09/03/2023
7	FDP	ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME	Dr. Paresh J. Shah, Mr. Abhijeet Shukla, Dr. Meena Agrawal, Dr. Altaf Badar	10th -15th April 2023
8	Industrial Visit	RCOEM-TATA CIIT	Dr. Sonkaskar Head Training Center CIIT	13/05/2023



Industrial Visit:- Br. Sheshrao Wankhede Soot Girni, Butibori



Expert lecture:- Cyber Security By Mr.Adarsha Kant Sinha



Industrial Visit:- Regional Remote Sensing Center-ISRO



Expert Lecture :-Dr. Prakasha Rao Regional Remote Sensing Center-ISRO



Expert Lecture:- Brain Signal Processing By Dr. Ram Bilas Pachori IIT, Indore



Industrial Visit:- Oberio Robotic Center, Nagpur



FDP:- Recent Trends in Solar Photovoltaic Technology with IoT Based Monitoring System and its Applications



Industrial Visit:- CIIT Center RCOEM, Nagpur

Extra Curricular Activities



Inauguration of Project Competition



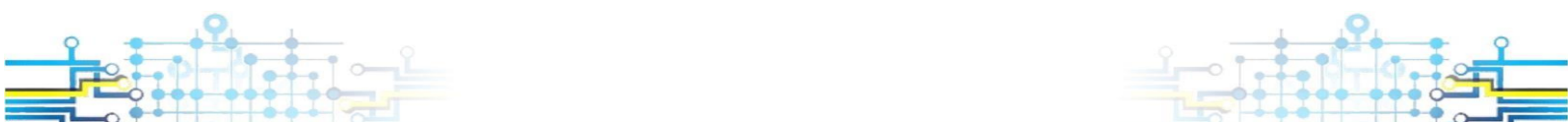
Poster Competition



Blood Donation Camp



Project Competition in PCE



Students Achievements

Sr. No.	Name of Students	Activities	Position/ Remark	Organized by /Date of Conduction
1	Aditya Joshi	NPTEL	Elite-69%	Swayam/NPTEL
2	Sagar Manik	NPTEL	Elite-65%	Swayam/NPTEL
3	Prasanna Pojge	NPTEL	56%	Swayam/NPTEL
4	Mrunal Padole	NPTEL	54%	Swayam/NPTEL
5	Roshan Katahne, Aditya Patil, Ashwini Janbandhu	Interdepartmental Level Project competition TANTRA-VIGYAN-2K23	Participated First-Winner	Tulsiramji Gaikwad Patil College of Engineering & Technology, Nagpur
6	Akhil Bisen, Rohit Bhisare, Vaibhav Kakde, Hirendra Saud	National Level Project Competition	Participated-Third Position	G. H. Raisoni Institute of Engg. Tech.
7	Sourav Halder, Suwarna Nagrale, Vishakha Gahukar, Neha Karlekar, Shivam Hanvatkar	Interdepartmental Level Project competition TANTRA-VIGYAN-2K23	Second- Prize	Tulsiramji Gaikwad Patil College of Engineering & Technology, Nagpur
8	Sourav Halder, Suwarna Nagrale, Vishakha Gahukar, Neha Karlekar, Shivam Hanvatkar	SPANDAN-2023	Participated	Yashwantrao Chavhan College of Engineering, Nagpur
9	Dinesh Kumar, Dineshkumar Yadav	Project Competition	Participated Third Position	Govindrao Wanjari College of Engineering
10	Ajay Thakur, Kushal Choudhary	Project Competition	Participated	Yashwantrao Chavhan College of Engineering, Nagpur

11.	Prasanna Pojge	2 nd position	National Level Karate Championship	National Shatokan Karate
12.	Abhishek Weladi	2 nd position	7.02 CGPA	RTMNU Nagpur


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Prasanna Pojge 2nd Position National Level Karate Championship
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