

Department of Electronics & Communication Engineering

"Where IDEAS flow without RESISTANCE"



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AboutTGPCET

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 is approved by All India Council for Technical Education, New Delhi. Also, college is approved by Directorate of Technical Education (DTE), Mumbai, and Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) and NBA. An Autonomous Institute affiliated to RTM Nagpur University, Nagpur

Vision

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



Mission

- ♣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(Dept.)



♣To impart quality higher education in the field of Electronics and Communication Engineering for catering the needs of society in coherence with current technology.

Mission(Dept.)



- To impart quality technical education through effective teaching learning processes.
- ♣To strengthen industry institute interaction to meet the challenges of Industry and Society.
- ♣To provide research conducive environment to students for encouraging innovative skills.
- ♣To ensure overall development of students and staff members by inculcating knowledge and professional ethics as a part of lifelong learning.

HOD's Talk

Dear Readers,

I am glad to present to you the News Letter of ELECTRONICS & COMMUNICATION ENGINEERING DEPT.



Dr Sanjay Asutkar

In 2007-08, our Electronics and Communication Engineering department began with an intake of 60 students. Our faculty boasts rich experience and top-notch qualifications, using innovative teaching methodologies.

Our research and training revolve around cutting-edge labs like VSAT, Atmel, μP & μC , and SATCOM, while a specialized computing facility aids in executing project work and departmental design tasks.

Our infrastructure shines with a state-of-the-art Microwave & Radar Engineering Lab alongside well-equipped facilities covering Electronic Devices and Circuits, Communication Engineering, Digital Signal Processing, Microprocessor and Microcontroller, and Digital Electronics.

Our commitment extends beyond academics through our Industry Institute Partnership Cell (IIPC), developing strong connections with departments, agencies, and industries nationwide. We collaborate closely with industries, facilitating student placements and training, supporting R&D, sponsored projects, and hosting industrial experts for guest lectures. Our aim is to align our curriculum with industry demands and foster an environment of academic-industry synergy.

Dr. Sanjay Asutkar

Editorial Committee



Prof. Mayuri Harde Faculty Coordinator



Mr. Pratik Patle Student Coordinator (4th Year)



Ms. Nayan Saktel Student Coordinator (4th Year)



Mr. Ashish Hajare Student Coordinator (3rd Year)



Ms. Gaytri Ghode Student Coordinator (2nd Year)

PEO's:

- **PEO 1:** Students will apply basic fundamentals in mathematics, physics and electronic engineering discipline to build sound foundations.
- **PEO 2:** Students will design, analyze and solve engineering problems to develop them as the professional leaders in the field of Electronics & communication Engineering.
- **PEO 3:** Students will get exposure by providing technical training to execute the multidisciplinary projects as a team.
- **PEO 4:** Students will channelize their knowledge through lifelong learning to assist in the development of the society.
- **PEO 5:** Students will acquire work ethics and concern for society.



FacultyAchievement









































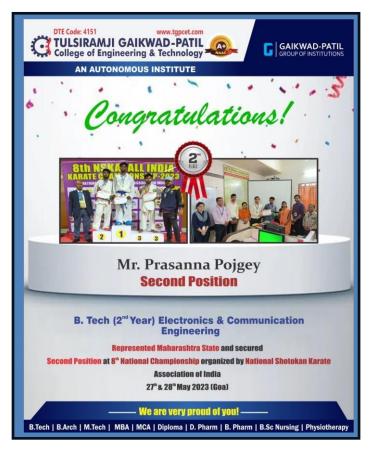






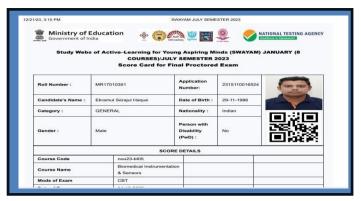


Student Achievement













Industrial Visit

Visit at MAHAMETRO BHAWAN

Department of Electronics & Communications Engineering has arranged Industrial visitfor Fourth Sem & Seventh Semester students to MAHA METRO BHAWAN, Nagpur under the *IIPC, ISTE and IE(I)*, Students Chapter on 07.07.2023

Outcome of the visit:

- 1. Students were able to understand the operation of MAHA METRO RAIL using Different unit.
- 2. Summarize the various types of operational units and Automation
- 3. Understand the concept of operation automatic traffic control system

Program objective achieved PO1, PO6, PO7, PO8, PO9, PO10, PO12 Visit was well coordinated by Mr.Sandeep Thakre (Course Co-Ordinator)

Sharing some glimpses of the visit.



Industrial Visit

Maharashtra Remote Sensing Application Center (MRSAC)Visit:

Department of Electronics & Communications Engineering arranged Industrial visit for Third Year & Second Year students to Maharashtra Remote Sensing Application Center (MRSAC) Near Ambazari, Nagpur under the ISTE, IE(I) & IETE, Students Chapter on 27.09.2023

Outcome of the visit:

- 1. Students were able to understand the process of Remote Sensing.
- 2. Summerize the method of Image Processing & Satellite Imaging.
- 3. Understand the concept of Space Technology.
- 4. Various Application of Remote Sensing.

ProgramobjectiveachievedPO1,PO6, PO7, PO8, PO9, PO10, PO12 Visitwas well Co-ordinated by Mr.Sandeep Thakre, Ms.Pallavi Rokade (Course Co-Ordinator)







Industrial Visit

Visit to HORIBA INDIA PVT. LTD.

The Department of Electronics and Communication organized a riveting Industrial Visit at HORIBA India Pvt. Ltd. in MIDC, Butibori Industrial Area, Maharashtra on 01 December 2023.

Key Insights: Mr. Aniket Khandaitkar and his team enlightened our students about HORIBA's history, vision, mission, and operations.

In-depth insights in to

- 1. Innovative hematology solutions
- 2. Manufacturing processes
- 3. Hemostas is analyzers
- 4. Blood testing equipment and
- 5. Automation in Biomedical field left our students awe-inspire Biomedical Marvels: Witnessed firsthand the intricate processes behind the creation of various Biomedical products.

Coordinated By:

Prof. Rohini Pocchi and Prof. Sandeep Thakre

Program Outcomes Achieved:

PO1,PO7, PO6, PO8, PO9, PO10, PO12.

Glimpses of the Day:









Expert Lecture

"Expert Lecture on PLC& SCADA"

Date:10.10.23

Department of Electronics & Communication Engineering has organized Expert Lecture on *Programmable Logic Controller (PLC) & Supervisory Control & Data Acquisition" by Mr. Shyam Chandurkar Sr. Engineer Mahagenco Koradi Thermal Power Station, Nagpur for III & V sem students of ECE Department.

Hehas discussed about

- 1. Control System, 2. Data Acquisition, 3. Advance Monitoring System.
- 4. Basic Programming for PLC.

Total67students have participated inexpert lecture. Today's lecture helped in mapping program

OutcomesoflecturePO1, PO2, PO3, PO4, PO5, PO6, PO12 sharing

some glimpses



Events

STUDENTFORUM"INVICTUS"RE-INSTALLATION-2023

Under Forum Reinstallation 'INVICTUS'

Date: 07.11.23

Department of Electronics & Communication Engineering has organized Expert Lecture on * "Recent Trends in Cloud Computing" by Mr. Shailesh Karare Technology Lead, Infosys Nagpur for III, V & VII Sem students of ECE Department*also Felicitated the RTMNU and Autonomous Examination Toppers

He has discussed about

- 1. BasicsofCloudData., 2. Benefits of Cloud Computing.
- 3. Cloud Models (Deployment & Service). 4. Cloud Architecture.
- 5. Job opportunities in Cloud Computing.

Total 80 students have participated in expert lecture. Today's lecture helped in mapping program

Outcomes of Lecture PO1, PO2, PO3, PO4, PO5, PO6, PO12







Events

MANTHAN WORKSHOP:

The **MANTHAN** workshop for Junior-grade science students focused on micro projects, particularly water level indicators. Participants engaged in hands-on activities, learning the intricacies of water level measurement and project design. The workshop fostered creativity and problem-solving skills, enabling students to conceptualize, build, and present their micro projects. The resized water level indicators showcased innovative designs and practical applications. This initiative not only enriched students' scientific understanding but also encouraged a culture of experimentation and collaboration. The MANTHAN workshop successfully empowered 12th-grade students to apply theoretical knowledge to real-world scenarios, preparing them for future scientific endeavors.



Placement

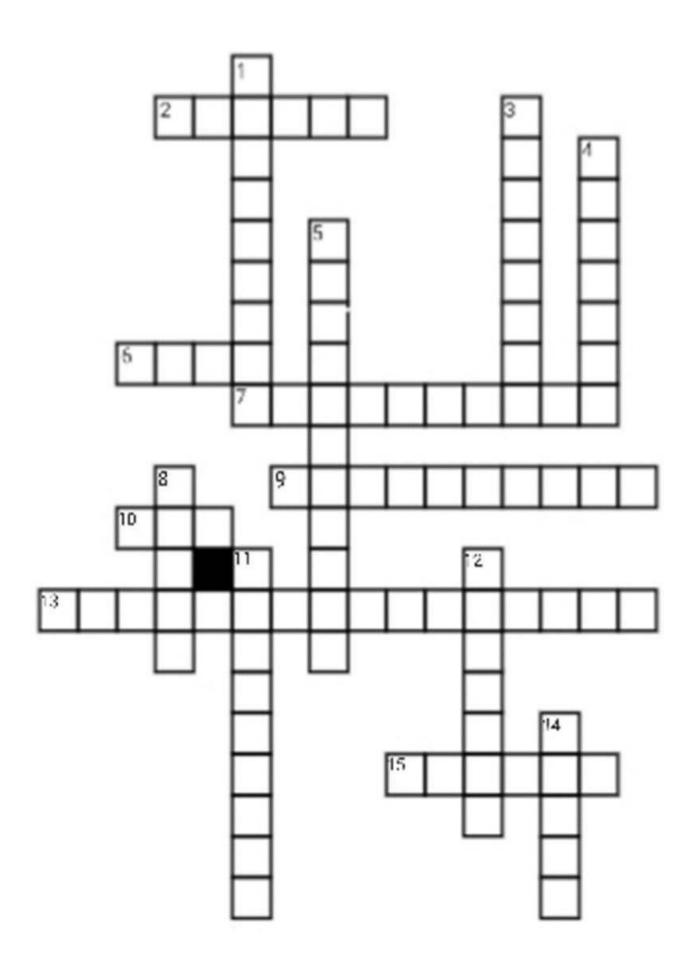








Games



Games

Down:

- 1) Electrical element which stores energy
- 3) A method of charging in which two Bodies are charged by rubbing
- 4) Another term for potential difference
- 5) Can convert A Cat low voltage to high voltage and vice versa 8) SI unit of self-inductance
- 11) Converts AC to DC
- 12) An elemental semiconductor
- 14) Converts electrical energy into mechanical energy

Across:

- 2) The fundamental quantity of electricity
- 6) Electric field inside a uniformly charged thin spherical shell
- 7) opposes flow of current
- 9) materials which allow current of low easily
- 10) semiconductor element which emits light when current flow through it
- 13) type of electricity which uses water for power generation 14) appositively charged particle

	-:s19wsnA
ACROSS	DOMN
2) CHARGE	1) CAPACITOR
e) ZEKO	3) FRICTION
7) RESISTANCE	4) VOLTAGE
9) СОИРИСТОВЅ	5) TRANSFORMER
10) LED	8) HENBY
13) HYDROELECTRICITY	11) RECTIFIER
15) PROTON	IS) SIFICON
	AOTOM (41

ArtCorner



Nikhil Tembhurne 4th Sem



Nikhil Tembhurne 4th Sem



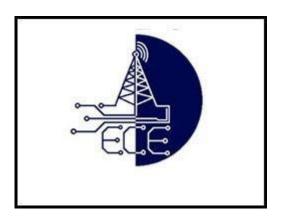
Riya Chauvhan 4th Sem



Tejas Rokade 4th Sem



Tejas Rokade 4th Sem



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