

Department of Electronics & Communication Engineering

"Where IDEAS flow without RESISTANCE"



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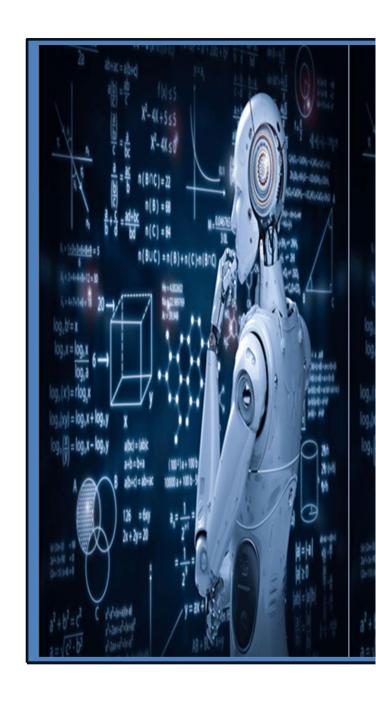
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About TGPCET

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 is approved by All India Council for Technical Education, New Delhi. Also, 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) 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 forencouraging innovative skills.
- ♣ To ensure overall development of students and staff members by inculcating knowledge and professional ethics as a part of lifelong learning.

HOD'sTalk

DearReaders,

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





Ms. Nayan Saktel Student Co-ordinator (4th Year)



Mr. Pratik Patle Student Co-ordinator (4th Year)



Mr. Ashish Hajare Student Co-ordinator (3rd Year)

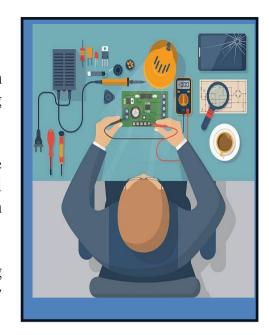


Ms. Gayatri Ghode Student Co-ordinator (2ndYear)

PEO's of Department

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.



Faculty Achievement































Student Achievement



















Student Achievement













Industrial Visit

Visit at MAHAMETRO BHAWAN

Department of Electronics & Communications Engineering has arranged Industrial visit for 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.

Program objective achieved PO1, PO6, PO7, PO8, PO9, PO10, PO12 Visit was 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 into

- 1. Innovative hematology solutions
- 2. Manufacturing processes
- 3. Hemostasis 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 MahagencoKoradi Thermal Power Station, Nagpur for III & V sem students of ECE Department.

He has discussed about

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

Total 67 students have participated in expert lecture. Today's lecture helped in mapping program

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

sharing some glimpses



Events

STUDENT FORUM "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. Basics of Cloud Data., 2. Benifits 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

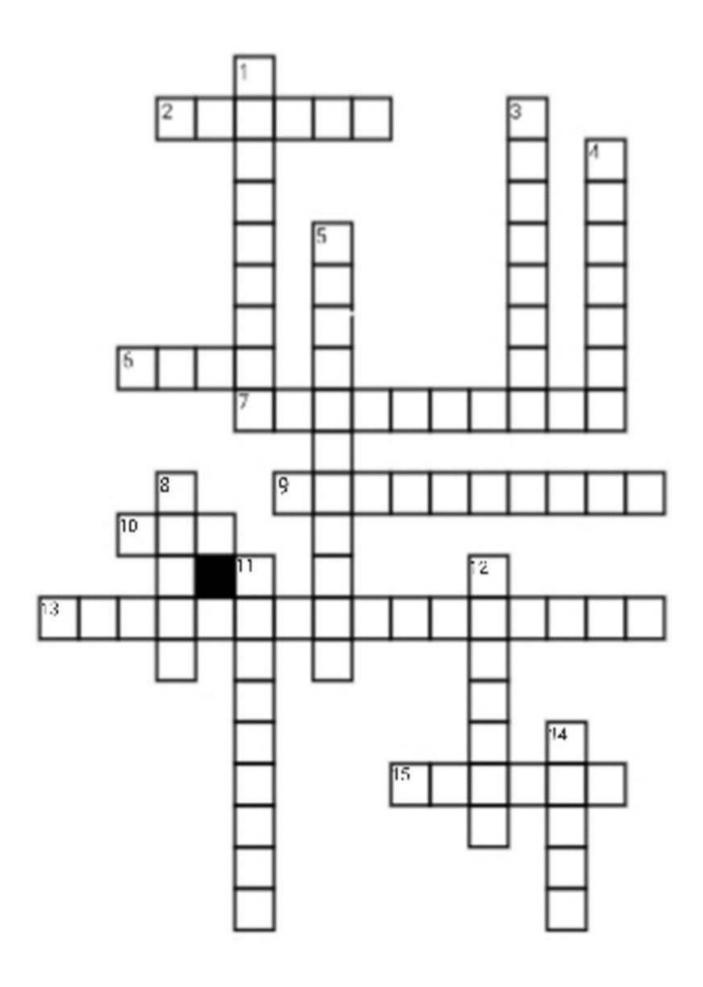








Games



Games

Down:

- 1) Electrical element which stores energy
- 3) A method of charging in which two Bodies are charged by rubbing
- 4) Anothertermforpotential difference
- 5) canconvertACatlowvoltagetohighvoltageandviceversa 8) SIunitofself-inductance
- 11) Converts ACtoDC
- 12) An elemental semiconductor
- 14) Converts electrical energyinto mechanicalenergy

Across:

- 2) the fundamental quantity of electricity
- 6) electricfieldinsideauniformlychargedthinsphericalshell
- 7) opposes flow ofcurrent
- 9) materialswhichallowcurrenttofloweasily
- 10) semiconductor element which emits light when current flow throughit
- 13) type of electricity which uses water for power generation
- 15) a positively charged particle

	14) MOTOM (41
15) PROTON	IS) SIFICON
13) HYDROELECTRICITY	11) RECTIFIER
10) LED	8) НЕИБХ
9) СОИDUCTORS	S) TRANSFORMER
7) RESISTANCE	4) VOLTAGE
e) ZERO	3) FRICTION
2) CHARGE	1) CAPACITOR
ACROSS	DOMN
	-:arewera

Art Corner



Nikhil Tembhurne 4th Sem



Nikhil Tembhurne 4th Sem



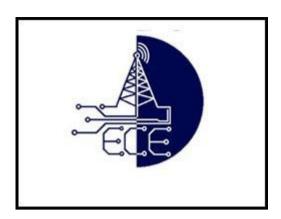
Riya Chauvhan 4th Sem



Tejas Rokade 4th Sem



Tejas Rokade 4th Sem



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