

# *NEWSLETTER*

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*VOL-4*

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**A.Y-2024-25**

**Electronics &  
Telecommunication  
Engineering  
Department**



# Welcome to the Electronics & Telecommunication Engineering Department VOL-4 ISSUE-1

New Satara College of Engineering and Management Polytechnic, Korti

The **Electronics & Telecommunication Engineering (E&TC) Department** at **New Satara College of Engineering and Management Polytechnic, Korti**, is dedicated to shaping future technocrats by providing quality education, innovative learning experiences, and industry-oriented training.

## About the Department

Electronics & Telecommunication Engineering is the backbone of modern technology, enabling advancements in communication, automation, embedded systems, and artificial intelligence. Our department offers a well-structured curriculum, advanced laboratories, and expert faculty to ensure students are equipped with the latest knowledge and practical skills.

## Our Vision

To become an excellent department in the field of Electronics and Telecommunication Engineering by imparting quality education to the students of rural areas.

## Our Mission

- To provide quality education of Electronics and Telecommunication Engineering to the students of rural areas.
- Empower students to excel in their careers by providing training programs that focus on developing essential competencies and skills.
- To support and cultivate students' aspirations in higher education and global professionalism.

## Facilities & Resources

- **Well-equipped laboratories** for practical learning
- **Industry collaborations** for internships and projects
- **Workshops, seminars, and expert talks** to enhance knowledge
- **Dedicated faculty and mentors** for student guidance

**Department of Electronics & Telecommunication Engineering**

## Principal desk



MR. VIKRAM.H.LONDHE

In our fast-paced world, a nation's success is closely tied to its industrial growth. Globalization has become essential for countries to thrive. Today, people expect quality work in every field. To navigate this modern technological revolution, individuals must prepare carefully, with courage and a positive mindset. Industrial development has emerged as a pressing need, characterized by skilled workforce, adoption of modern technology, and effective implementation of these skills. At New Satara Polytechnic, we recognize this contemporary requirement and focus on producing world-class technicians equipped with competent skills across various technologies to serve society. Every effort at our institution is directed towards achieving this overarching goal.

Our skilled faculty are our greatest strength. Each member of our team is deeply passionate about achieving our shared goals. We consistently motivate our faculty to actively engage in our mission, surrounded by the soothing embrace of nature within the pleasant environment of New Satara Polytechnic. Our co-curricular and extra-curricular activities are designed to spark the curiosity of our young minds, encouraging them to explore new dimensions of life and innovate in their respective fields. At New Satara Polytechnic, we encourage our students to be problem-solvers rather than dwell on problems. They are given opportunities to work on mini and micro projects, allowing them to apply their knowledge practically and showcase their creativity. To enhance our students' employability, we have introduced and effectively implemented Skills Development Programs within our institute.

In today's highly competitive global market shaped by globalization, liberalization, and privatization, practical knowledge is essential. We ensure our students are industry-ready by imparting practical skills and instilling in them the confidence to navigate and excel in the competitive world. We invite you to experience the vibrant learning environment at New Satara Polytechnic, where you can rejuvenate your mind and intellect.

Principal

New Satara College of Engineering and Management Polytechnic, Korti

## Electronics & Telecommunication Eng.

### **Institute Vision:**

To become leading institute for imparting technical education in rural areas for fulfilling the needs of industry and society.

### **Institute Mission:**

M1: To enhance technical knowledge of students by practical based education.

M2: To strive for good academic results and placement of diploma graduates.

M3: To facilitate infrastructure for development of professional skills of students.

### **Electronics & Telecommunication Engineering Department.**

#### **Vision**

To become an excellent department in the field of Electronics and Telecommunication Engineering by imparting quality education to the students of rural areas.

#### **Mission**

- To provide quality education of Electronics and Telecommunication Engineering to the students of rural areas.
- Empower students to excel in their careers by providing training programs that focus on developing essential competencies and skills.
- To support and cultivate students' aspirations in higher education and global professionalism.

#### **Programme Educational Objectives (PEO)**

**PEO1: Provide socially responsible environment friendly solutions to Electronics and Telecommunication Engineering related broad based problem adapting professional ethics.**

**PEO2: Adopt state of the art Electronics & Telecommunication Engineering broad based technologies to work in multi-disciplinary work environments environments.**

**PEO3: Solve broad based problems individually & as a team member communicating effectively in the world of work.**

HOD's Desk



Welcome to the **Department of Electronics & Telecommunication Engineering** at **New Satara College of Engineering and Management Polytechnic, Korti**. Our mission is to provide **quality technical education** blended with **practical exposure and industry-oriented learning**, ensuring that our students are well-prepared for the evolving technological world.

With **state-of-the-art laboratories, experienced faculty, and strong industry collaborations**, we focus on **innovation, research, and skill development**. Our department actively engages in **internships, expert lectures, industrial visits, and hands-on training** to bridge the gap between academics and industry needs. We believe in a **learning-by-doing** approach, encouraging students to work on **real-world projects, research, and cutting-edge technologies**.

To enhance career prospects, we offer **specialized training programs, certification courses, and entrepreneurship support**, ensuring our students are **industry-ready and globally competent**. We provide platforms for students to showcase their talents in technical, cultural, and social domains.

We take pride in nurturing **competent, ethical, and innovative engineers** who contribute to society and technological advancements. I invite all aspiring engineers to join us and embark on a journey of **learning, excellence, and success**.

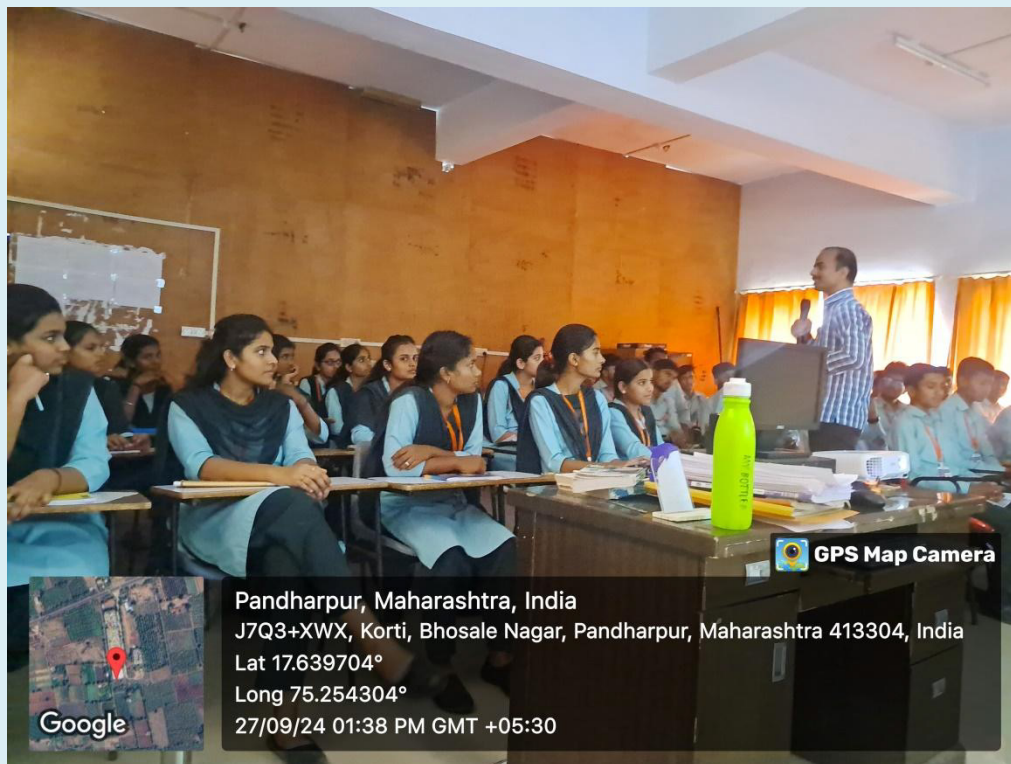
Ms. A.S. Sutar (M.Tech E&TC)

**Head of Department, E&TC Engineering New Satara College of Engineering and Management Polytechnic, Korti**

## Staff Profile A.Y-2024-25

| Sr. No | Name of faculty   | Designation | Qualification   | E-mail Id  | Contact Number |
|--------|-------------------|-------------|---|--|----------------|
| 1      | Ms.Sutar A.S.     | H.O.D.      | M. Tech. ( Electronics Engineering)                     | <a href="mailto:apurvasutar05@gmail.com">apurvasutar05@gmail.com</a>                 | 7620764264     |
| 2      | Mr.Deshpande K.S. | Lecturer    | M. Tech. ( Electronics & telecommunication Engineering) | <a href="mailto:kaustubhdeshpande0203@gmail.com">kaustubhdeshpande0203@gmail.com</a> | 8329365687     |
| 3      | Ms.Hakim A.A.     | Lecturer    | M. Tech. ( Electronics Engineering)                     | <a href="mailto:asmahakimkazi@gmail.com">asmahakimkazi@gmail.com</a>                 | 9545677285     |
| 4      | Ms. Satpute A.N.  | Lecturer    | B.E. Electronics  | <a href="mailto:archanasatpute72@gmail.com">archanasatpute72@gmail.com</a>           | 8552891415     |
| 5      | Ms.Mali M.S.      | Lecturer    | B.E. Electronics  | <a href="mailto:monikamali0906@gmail.com">monikamali0906@gmail.com</a>               | 8552952904     |
| 6      | Ms.Nagane K.S.    | Lecturer    | B.E. Electrical   | <a href="mailto:karthikanagane@gmail.com">karthikanagane@gmail.com</a>               | 9325497698     |
| 7      | Mr.Shaikh S.B.    | Lecturer    | B.E. Electrical   | <a href="mailto:shaikhsartaj40@gmail.com">shaikhsartaj40@gmail.com</a>               | 7218356679     |
| 8      | Mr.Gajare D.M.    | Lecturer    | B.E. Electronics  | <a href="mailto:dgajare51@gmail.com">dgajare51@gmail.com</a>                         | 9623846251     |
| 9      | Mr.Shete V.C.     | Lecturer    | B.E. Electronics  | <a href="mailto:2vinayakshete@gmail.com">2vinayakshete@gmail.com</a>                 | 9890671100     |
| 10     | Mr.Jadhav I.B.    | Lecturer    | M.Sc(Physics)   | <a href="mailto:indrajit.jadhavb@gmail.com">indrajit.jadhavb@gmail.com</a>           | 8329666404     |

## Expert Lecture



### Expert Lecture on Internet of Things (IoT) by Prof. M.A. Deshmukh

On the 26th of September 2024, an expert lecture on the Internet of Things (IoT) was conducted by Prof. M.A. Deshmukh for the students of the Electronics & Telecommunication Engineering Department at New Satara Polytechnic, Pandharpur. The session aimed to enhance students' understanding of IoT concepts, applications, and future trends in this rapidly evolving field.

Prof. M.A. Deshmukh provided an in-depth introduction to IoT, explaining its architecture, components, and communication protocols. The lecture covered various real-world applications, including smart cities, healthcare, industrial automation, and agriculture. Students gained insights into essential IoT technologies such as sensors, actuators, cloud computing, and edge computing, which play a crucial role in modern connected systems.

A key highlight of the session was the discussion on security challenges in IoT networks, addressing concerns related to cybersecurity and data privacy. The lecture also explored the integration of AI and 5G with IoT, emphasizing their role in the future of smart technologies and Industry.

Following the lecture, an interactive Q&A session was conducted, where students engaged with Prof. Deshmukh to discuss implementation challenges, industry demands, and career opportunities in the IoT domain. The session provided students with valuable knowledge and practical insights, bridging the gap between academic learning and industry requirements.

The expert lecture by Prof. M.A. Deshmukh was highly informative and well-received by the participants. It enriched students' technical understanding and encouraged them to explore IoT applications in their academic projects and future careers. The session concluded with a vote of thanks, acknowledging the professor's time and expertise in sharing valuable insights on IoT.

## Industrial Visit



### Industrial Visit At Dolphin Labs

On the 18th and 19th of September 2024, an industrial visit to Dolphin Labs was organized for students to gain practical exposure to industry operations and emerging technologies. The visit aimed to bridge the gap between theoretical knowledge and real-world applications by providing insights into advanced laboratory processes, automation, and research methodologies.

During the visit, students were given a comprehensive overview of the lab's functioning, including the latest technological advancements used in research and development. They observed various processes such as data analysis, quality control, and equipment calibration, which play a crucial role in modern industry practices. Experts at Dolphin Labs conducted detailed sessions, explaining how cutting-edge technologies are integrated into laboratory operations and their impact on different sectors.

The visit also emphasized the importance of automation in laboratory environments, highlighting the use of AI, IoT, and cloud-based solutions in scientific research. Students were introduced to sophisticated instruments and software tools that aid in enhancing efficiency and precision in experiments. Additionally, they learned about industry standards, safety protocols, and compliance regulations essential for maintaining quality in industrial research.

An interactive Q&A session was held towards the end of the visit, allowing students to engage with professionals and discuss various technological advancements, challenges, and career opportunities in the field. This session provided them with valuable insights into industry expectations and trends, preparing them for future professional endeavors.



## Industrial Visit



### Industrial Visit At Perfect Electronics

On the 19th of September 2024, students and faculty members from the Electronics & Telecommunication Engineering Department of New Satara Polytechnic, Pandharpur, visited Perfect Electronics, MIDC Wai, Satara. The visit aimed to provide students with practical exposure to industrial operations and enhance their understanding of key concepts related to Analog & Digital Electronics, Embedded Systems, and Emerging Trends in Electronics.

During the visit, students gained insights into various industrial processes, including automation, sensor technologies, and applications of IoT in modern electronics. Industry experts at Perfect Electronics conducted informative sessions on the role of sensors in IoT applications, the fundamentals of analog and digital electronics, and the latest advancements in embedded systems. The students had the opportunity to observe real-time manufacturing and quality control procedures, which helped them bridge the gap between theoretical knowledge and industrial practices.

The interactive session with industry professionals allowed students to clarify their doubts and understand the practical challenges faced in the electronics industry. Experts shared their experiences, highlighting industry trends and career opportunities in the field of electronics and telecommunication.

This visit proved to be a valuable learning experience for the 45 students and 4 faculty members who participated. It not only provided them with a deeper understanding of industrial applications but also motivated them to explore innovative ideas for their academic projects and future careers. The visit concluded with an expression of gratitude towards the management and staff of Perfect Electronics for their hospitality and knowledge-sharing efforts. Such industrial visits play a crucial role in fostering industry-academia collaboration and preparing students for professional challenges in the evolving world of technology.

## Cultural Activity



### Ganesh Aarti Celebrated with Devotion and Unity at NSPCOEM, Korti

The Ganesh Aarti at NSCEM, Korti, was a grand and spiritually uplifting event filled with devotion and enthusiasm. Students, faculty, and staff gathered to offer prayers to Lord Ganesha, seeking blessings for wisdom, success, and prosperity. The event began with the traditional Ganesh Sthapana, followed by an energetic and soulful Aarti, where participants sang devotional hymns in unison.

The rhythmic beats of dhol, tasha, and manjira added to the divine ambiance, making the experience even more immersive. A beautifully adorned, eco-friendly Ganesh idol was placed at the heart of the celebration, emphasizing the importance of sustainability alongside spirituality. The entire venue was decorated with vibrant flowers and rangoli, enhancing the festive spirit.

Students and faculty actively participated, fostering a sense of togetherness and cultural harmony. After the Aarti, Prasad was distributed among attendees, symbolizing prosperity and goodwill. The event not only strengthened faith and devotion but also promoted unity, positivity, and shared cultural values, making it a truly memorable occasion at NSCEM, Korti.

## Sport's Activity



### **Kho-Kho Tournament Showcases Teamwork and Sportsmanship at NSP, Korti**

The Kho-Kho Tournament at New Satara College of Engineering and Management Polytechnic, Korti, was conducted with immense enthusiasm, bringing out the true essence of teamwork, agility, and strategic thinking. The tournament witnessed active participation from students across various departments, each team showcasing their speed, coordination, and quick reflexes on the field.

The event kicked off with an inaugural ceremony, where faculty members and sports coordinators motivated the participants, emphasizing the importance of sports in holistic development. The matches were highly engaging, with teams executing well-planned defensive and attacking strategies, making the games thrilling for both players and spectators.

As the competition progressed, the spirit of sportsmanship and fair play was evident among all teams. The players displayed remarkable stamina, agility, and teamwork, making swift moves to outmaneuver their opponents. The crowd erupted in cheers, adding to the electrifying atmosphere, as each match unfolded with intense chases and strategic dodging.

## Sport's Activity



### **Kabaddi Tournament Highlights Strength and Team Spirit at NSCEM, Korti**

The Kabaddi Tournament at New Satara College of Engineering and Management Polytechnic, Korti showcased students' strength, agility, and teamwork. Intense matches and enthusiastic cheers created a vibrant, competitive atmosphere.

The tournament featured multiple teams competing in a knockout format, displaying exceptional skill and strategic gameplay. Players demonstrated quick reflexes, endurance, and coordination, making each match thrilling for spectators. Faculty members and students actively supported their teams, adding to the excitement of the event.

The competition not only promoted physical fitness and sportsmanship but also encouraged camaraderie and leadership among participants. The winners and runners-up were felicitated with trophies, medals, and certificates in a grand closing ceremony. Special awards were also given for Best Raider, Best Defender, and Most Valuable Player of the tournament.

Overall, the event reinforced the importance of sports in holistic development, inspiring students to actively participate in extracurricular activities alongside their academic pursuits.

## Faculty Achievement



**MS. A. S. Sutar**

It is a matter of great pride that **Apurva Sutar** has successfully published a research paper in the **International Journal of Advanced Research in Science, Communication, and Technology (IJARSCT)**. This achievement highlights their dedication to innovative research in cutting-edge technological fields.

The research paper, titled “**Deep Learning-Based Automated Billing Cart,**” was published in **Volume 3, Issue 4, April 2023** of IJARSCT. This study focuses on the implementation of deep learning techniques in smart retail automation, particularly in developing an intelligent billing system that enhances efficiency in shopping experiences.

IJARSCT is a **peer-reviewed, open-access journal** known for its **high impact factor (7.301)** and international recognition. The paper has also been assigned a **CrossRef DOI (10.48175/IJARSCT-9290)**, ensuring its accessibility to researchers worldwide.

This publication serves as a testament to Apurva Sutar’s contributions to the field of **Artificial Intelligence, Machine Learning, and Embedded Systems**. It opens avenues for further exploration into AI-driven automation, fostering advancements in smart commerce solutions.

Such research initiatives play a significant role in shaping future innovations and providing practical solutions to real-world problems. This recognition not only elevates individual academic credentials but also inspires fellow researchers and students to engage in impactful studies.



**MS. A. S. Sutar**

We are delighted to announce that **Ms. A. S. Sutar** has successfully published a research paper in the esteemed journal "**The Ciencia & Engenharia – Science & Engineering Journal.**" This accomplishment highlights her dedication to advancing knowledge in the field of science and engineering.

The research paper, published in a reputed international journal, demonstrates innovative contributions to emerging technologies. Through rigorous analysis and comprehensive study, Ms. Sutar has explored key aspects of her research domain, paving the way for future advancements.

**The Ciencia & Engenharia – Science & Engineering Journal** is a well-recognized platform for scholarly research, known for its **high academic standards, peer-reviewed articles, and global reach.** The publication of this paper in such a prestigious journal underscores the quality and impact of Ms. Sutar's research work.

This achievement reflects not only her expertise and commitment to scientific inquiry but also serves as an inspiration for fellow researchers and students. By contributing valuable insights to the academic community, her work fosters innovation and sets a benchmark for future research endeavors.

## Faculty Achievement



**MS. A. S. Sutar**

### **Completion of Staff Training on IoT Applications & AI/ML by Miss. Sutar A.S**

Miss. Sutar A.S. successfully completed a five-day staff training program on "IoT Applications & Artificial Intelligence/Machine Learning (AI/ML)" at the College of SSWP, Solapur. This specialized training aimed to equip faculty and staff with advanced knowledge in Internet of Things (IoT) and AI/ML technologies, which are revolutionizing modern industries.

The training sessions covered key aspects such as IoT architecture, sensor integration, cloud computing, AI-driven data analytics, and machine learning algorithms. Hands-on workshops provided participants with practical exposure to IoT-enabled smart systems, predictive analytics, automation techniques, and AI-driven decision-making processes. Experts from academia and industry shared insights on real-world applications, including smart cities, healthcare, industrial automation, and intelligent transportation systems.

Conducted at SSWP Solapur, this program emphasized the importance of interdisciplinary learning and practical implementation of IoT and AI/ML in engineering and technology. Participants engaged in discussions, case studies, and project-based learning to explore how these emerging technologies can be leveraged for innovation and problem-solving.

By completing this program, Miss. Sutar A.S. has strengthened her expertise in IoT and AI/ML, positioning herself to integrate these cutting-edge technologies into her professional and academic endeavors. This achievement underscores her dedication to continuous learning and contributing to technological advancements in education and industry.



Mr. K. S. Deshpande

## Presentation of Research Paper at NCEEICT-2024

Mr. K. S. Deshpande successfully presented a research paper titled “Ninja Blade-shaped UWB MIMO Antenna for Wireless Communication System” at the National Conference on Electrical, Electronics, and Intelligent Computing Technologies (NCEEICT-2024). The conference was held on May 2-3, 2024, at Guru Nanak Dev Engineering College, Bidar, in collaboration with SVERI’s College of Engineering, Pandharpur.

This prestigious event was organized by the Department of Electronics and Communication Engineering, GNDEC Bidar, aiming to provide a platform for researchers, academicians, and industry professionals to share and discuss advancements in electrical and communication technologies. The research presented by Mr. Deshpande focused on the development and application of Ultra-Wideband (UWB) Multiple-Input Multiple-Output (MIMO) Antennas, specifically designed for modern wireless communication systems.

The conference featured renowned experts from academia and industry who shared their insights on cutting-edge innovations in intelligent computing and communication systems. The convener and organizing committee, including Dr. Savita Soma, Dr. M.M. Pawar, Dr. Kishan Singh, and Dr. Suresh P. Reddy, facilitated an engaging environment for knowledge exchange and technical discussions.

By contributing to NCEEICT-2024, Mr. Deshpande has demonstrated his dedication to advancing research in wireless communication technologies, fostering innovation, and enhancing practical applications in modern communication systems.



## Achievements 2024-25

❖ Academic Achievement- Three Toppers of FY SY &TY E&TC Dept.

### Electronics & Telecommunication Engineering

| Sr.No. | First Year                | Second Year                 | Third Year                 |
|--------|---------------------------|-----------------------------|----------------------------|
| 1      | SALUNKHE JAY<br>DATTA     | SHINGARE SHUBHAM<br>SUNIL   | GHODAKE PAYAL<br>VAIJANATH |
| 2      | CHAVARE NAMRATA<br>GORAKH | MULANI SANIYA<br>NAVAJ      | JADHAV SHUBHANGI<br>MANIK  |
| 3      | CHAUDHARI<br>SANIKA DILIP | SHINDE AISHWARYA<br>MAHADEV | JADHAV PRANALI<br>BANDU    |

## Editor's Desk



### **Mr. Shaikh S.B**

*Lecturer, Electronics and Telecommunication Engineering*

Hello Everyone!

It is with great pleasure that we present to you **Newsletter Edition (May 2024 - December 2024) Vol-4** of the **Electronics and Telecommunication Engineering Department** at **New Satara College of Engineering and Management Polytechnic, Korti**. This newsletter serves as a platform to showcase the remarkable activities, achievements, and initiatives undertaken by students and faculty during this period.

In this edition, we highlight various **technical and cultural events**, **NSS activities**, and **student and staff accomplishments**, reflecting the dynamic and holistic development of our department. The newsletter also features **insightful technical articles** contributed by our esteemed faculty members, aiming to enhance knowledge sharing and promote intellectual engagement.

The past few months have been filled with enthusiasm, learning, and success. Our students have actively participated in **workshops, competitions, and technical symposiums**, demonstrating their passion for innovation. Additionally, faculty members have excelled in various domains, attending **Faculty Development Programs (FDPs)** and contributing to the academic growth of the institution.

We extend our heartfelt gratitude to everyone who contributed to making this edition possible. Special thanks to the **students, faculty members, and editorial team** for their efforts in compiling and refining the content. Your dedication and commitment to excellence continue to inspire us all.

We hope you enjoy reading this edition and encourage you to stay connected with us for more updates on our journey of academic and technical excellence.

**Happy Reading!**

**Warm Regards,**

**Editorial Team**

Electronics and Telecommunication Engineering

NSCEM Polytechnic, Korti

