

Report on Tesla Club Department of Electronics, Yeshwant Mahavidyalaya, Nanded.



“No Resistance Can Drop Our Potential”

2025-26

Introduction

Electronics is one of the most influential branches of science, shaping almost every aspect of modern human life. From simple daily utilities to advanced technological systems, electronics has become an integral part of our routine. Its role extends beyond convenience it acts as a key driver of innovation, economic growth, and national development.

In today's rapidly evolving technological landscape, change is constant. Advancements over the past century have accelerated at an unprecedented rate, making it essential for students to continuously update their knowledge and skills. Strong fundamentals, combined with curiosity and innovation, are the foundation for success in this dynamic field.

With this vision, the Department of Electronics at Yeshwant Mahavidyalaya, Nanded established the **Tesla Club** under the guidance of Dr. Ganeshchandra N. Shinde (Principal) and senior faculty members. The club is named after the great scientist Nikola Tesla, whose contributions to alternating current (AC) systems revolutionized the world.

Preamble

The Tesla Electronics Club is a student-driven initiative that aims to cultivate enthusiasm and passion for electronics and allied fields among students. It serves as a platform to bridge the gap between theoretical knowledge and practical application.

The club focuses on topics beyond the academic syllabus and encourages students to explore real-world problem-solving. Through workshops, projects, competitions, and discussions, students gain hands-on experience and develop technical as well as professional skills.

The club plays a vital role in helping students:

- Understand complex electronic systems
- Build practical projects
- Develop innovation-driven thinking
- Prepare for industry and research careers

Objectives of Tesla Electronics Club

- To expose students to real-world challenges in circuit design and hardware systems
- To promote practical understanding of electronics concepts
- To encourage innovation and development of useful technological solutions
- To provide a platform for implementing creative ideas
- To keep students updated with emerging technologies
- To enhance communication through technical discussions
- To provide hands-on training and project experience
- To create a bridge between academia and industry
- To conduct workshops, seminars, and competitions regularly

Motto

“INNOVATION, IMAGINATION & APPLICATION”

Activities Conducted

- Technical Workshops
- DIY Project Development (Avishkar, Anvention, etc.)
- Query and Discussion Sessions
- Guest Lectures and Expert Talks
- Embedded System Design Challenges
- Circuit Design Competitions
- Model Making Competitions
- Lecture Series and Technical Sessions

- Scientific Movie & Documentary Sessions
- Alumni Meets, Fresher's Events

Functioning of the Club

The Tesla Club operates with a focus on holistic development. It covers everything from fundamental electronics to advanced system design. Students are trained in:

- Component selection and circuit design
- Troubleshooting and debugging
- Project development and implementation
- Innovation and research orientation

The club provides an environment where students can explore their creativity, overcome challenges, and showcase their talent through various technical and non-technical activities.

How the Objectives Were Achieved

The Tesla Club actively implemented various strategies to achieve its objectives and ensure overall development of students in the field of electronics.

Skill-based content was regularly introduced to enhance conceptual understanding and strengthen the practical knowledge of students. This approach helped bridge the gap between theoretical learning and real-world application.

Students were encouraged to identify their areas of interest, and continuous guidance was provided to help them develop and refine their ideas into workable projects. This not only improved their confidence but also fostered innovation and independent thinking.

The club ensured that students remained updated with the latest technological advancements by sharing relevant information, conducting discussions, and introducing emerging trends in electronics and allied fields.

To promote hands-on learning, students were actively involved in mini-projects and practical activities. These projects enabled them to apply their knowledge, improve problem-solving skills, and gain experience in designing and implementing electronic systems.

Additionally, efforts were made to connect students with industry professionals. Experts from the electronics industry were invited to deliver seminars and interact with students, providing valuable insights into industry practices and career opportunities.

❖ Tesla Club Members Have Actively Participated in following events 2025-26

On the occasion of **Republic Day (26th January 2026)**, a **National Level Model Competition** was organized by MGM College, Nanded. The event provided a valuable platform for students from various institutions to showcase their technical creativity, innovation, and practical knowledge through model-based presentations.

Students from the **Tesla Club, Department of Electronics, Yeshwant Mahavidyalaya, Nanded**, actively participated in this prestigious competition. The participants presented their innovative model, demonstrating strong technical understanding and application of electronic concepts.

Their participation in this national-level event reflects the club's continuous efforts to encourage students to engage in experiential learning, innovation, and competitive technical activities beyond the classroom.

Participants Details

Sr. No.	Name of the Participant
1	Dhanesh Rathod
2	Asawri Khare
3	Diksha Turerao
4	Dipali Ligade
5	Safura Fatema



Figure 1: Students of Tesla Club participating in the National Level Model Competition at MGM College, Nanded.



Figure 2: Students of Tesla Club participating in the National Level Model Competition at MGM College, Nanded.

Event 2: The Yeshwant Youth Festival is an annual platform that hosts a variety of cultural and technical events, encouraging students to showcase their talents and creativity. Among these, the Model Presentation Competition is a key technical event that promotes innovation, design thinking, and practical application of knowledge. Students from the Tesla Club, Department of Electronics, Yeshwant Mahavidyalaya, Nanded, actively participated in this competition. Nearly nine groups represented the department, presenting a diverse range of innovative models. The participation was highly commendable, and the students demonstrated strong technical skills and creativity. Their efforts were recognized with notable achievements, as the department secured both the First Prize and the Third Prize in the competition. This accomplishment reflects the dedication of the students and the continuous efforts of the Tesla Club in promoting innovation, teamwork, and hands-on learning.

Winner List – Model Presentation (Yeshwant Youth Festival)

Sr. No.	Name of the Student	Class	Event	Prize
1	Dhanesh Vithal Rathod	B.Sc. III	Model Presentation	First
2	Aditi Narayan Nageshwar	B.Sc. I	Model Presentation	Second
3	Shruti Sontakke	B.Sc. I	Model Presentation	Third
4	Safura Fatema Shaikh Qayyum	B.Sc. I	Model Presentation	



Figure :Students presenting their model during the Model Presentation Competition.



Figure :Students presenting their model during the Model Presentation Competition.

Event 3: A one-day Hands-on Workshop on Arduino was organized at Lal Bahadur Shastri Mahavidyalaya, Dharmabad. The workshop aimed to provide practical exposure to students in the field of embedded systems and Arduino-based applications.

Students from the Department of Electronics and Tesla Club, Yeshwant Mahavidyalaya, Nanded, actively participated in this workshop. Nearly 15 students attended the session and gained valuable hands-on experience in Arduino programming, interfacing, and real-time project implementation.

The workshop focused on bridging the gap between theoretical knowledge and practical skills. Participants were introduced to Arduino fundamentals, circuit design, and basic programming techniques, which helped enhance their technical understanding and interest in embedded systems.



Figure: Workshop At LBS Dharmabad



Figure: Certificate at Workshop



Conclusion

The activities conducted under the Tesla Club, Department of Electronics, Yeshwant Mahavidyalaya, Nanded, have significantly contributed to the academic and practical development of students. Through active participation in workshops, competitions, and technical events, students were able to enhance their knowledge, skills, and confidence.

The club successfully created a platform where students could explore their interests, apply theoretical concepts in real-world scenarios, and develop innovative solutions. Participation in events such as model competitions, workshops, and festivals not only strengthened their technical abilities but also improved teamwork, communication, and presentation skills.

The achievements secured by the students at various levels reflect the effectiveness of the club's efforts in promoting innovation and experiential learning. The Tesla Club continues to play a vital role in bridging the gap between academics and industry requirements.

Overall, the club has proven to be a valuable initiative in nurturing talent, encouraging creativity, and preparing students for future challenges in the field of electronics and technology.