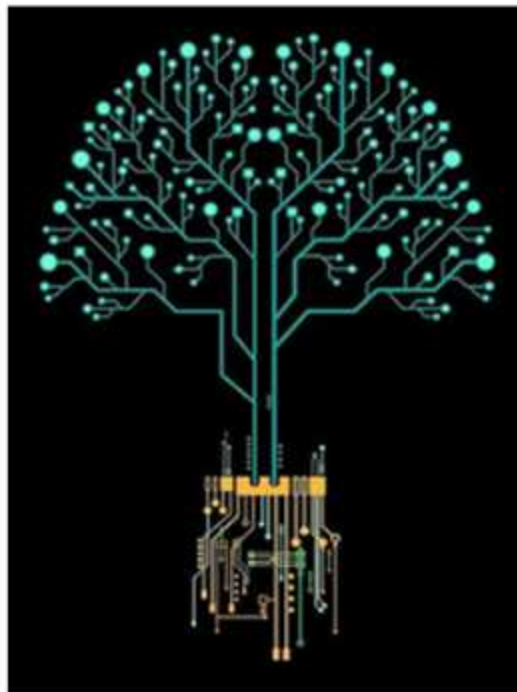


Report
on

Tesla Club

**Department of Electronics,
Yeshwant Mahavidyalaya, Nanded.**



“No Resistance Can Drop Our Potential”

2019-20

Introduction

Electronics is a modern branch of science which is deeply rooted in to every aspect of human life. It has become a part of our day to day life. Now we can't even expect a day without it. Starting the day with a small alarm till ending the day with a bed lamp involves electronics. **“Electronics is clearly the winner of the day”**, said a famous scientist John ford. By the demand and production of the electronics we can predict the economy of a nation. It also plays a major role in a development of a nation.

“The only thing that remains constant is change”

Yes, this has become our attitude, and will remain our legacy to pass down. There has been more development in the past hundred years than the entire span of time since human-origin. Moore's Law still holds strong. We are in an age where our passion and abilities are our hammer and sickle. Competition is round every nook and corner; name any domain. To keep up to this scurry change we need to regularly equip ourselves in our areas of interest and domains of development.

Keeping this vision department of electronics had establishe the **TESLA CLUB** Under the guidance of **Dr. Ganeshchandra N. Shinde Principal**, and the senior faculty of electronics department. The name is inspired from the great scientist nickola tesla. He is One of the greatest geniuses in history. His discoveries and inventions have change the world. He is best known for his contributions to the design of the modern alternating current (AC) electricity supply system.

B.Sc. FY, SY and TY students of electronics unanimously forms the Executive body of Tesla Club Executive body of Tesla Club decided life membership fee is Rs. 50/- and Rs.200/- is for printed T-Shirts for each member. Department of electronics celebrate the Grand Opening of Tesla Club on **01st January, 2020 at 11.00 am** with auspicious hands of **Dr. Yogesh Joshi Associate Professor, Department of Physics and Electronics, L.B.S. Mahavidyalaya, Dharmabad** and in presence of **Dr. Ganeshchandra N. Shinde Principal , Yeshwant Mahavidyalaya, Nanded.**

Preamble

Tesla Electronics club is the student run organization that strives to impart enthusiasm and passion for electronics and allied fields among students of Departments of Electronics, Yeshwant Mahavidyalaya, Nanded. The club aims to cater to the various needs that are primal to be addressed to keep in pace with the ever evolving field of electronics. The club aims to uncover those key topics that are not part of the curriculum or just grazed upon by the syllabus. The functions of the electronics club are to deal from basics of electronics to the peak of it. This club, for sure, will help the students not only in their studies but also in their career.

The Electronics Club is a hobby group that aims to teach and help students understand the seemingly incomprehensible electronic gadgets in the world today, and also assists students in developing their own devices. To this end, various lectures, workshops, projects as well as competitions throughout the year concerning both analog as well as digital electronics keep the calendar busy and the participants, learning.

In this rapidly moving world, where everyday a new technology comes into existence, it is extremely hard to keep abreast with all the technical know-how, but if our basic concepts are intact then we can aim for the top.

Objectives of Tesla Electronics Club

- The chief aim of the club is to bring the students out of their rooms and to expose them to the challenges awaiting them in the field of circuit design and hardware analysis.
- To explain the concepts of electronics in a practical way and help them to gain knowledge but also help them to use the basic concepts to come up with something constructive and useful for the society.
- To provide a platform for the students to give a shape to their innovative ideas.
- To expose the students to the latest technological advancements in the field of electronics.
- To form a discussion boards on latest trends of electronics which indeed improve their communication skills.
- To provide a hands-on training for students.
- To provide a virtual bridge between the present global industries and the department.
- Aim at bringing out the "Technological Best" in students.
- To conduct lecture series, workshops and also assign projects to students.

Motto

INNOVATION, IMAGINATION & APPLICATION

Activities

- Workshops
- Diy: project making for the purpose of Avishkar , Anvention etc
- Query session
- Activities like fairwell , alumni meet , freshers party
- Talks: discover the unknown
- Implementation of inventions in campus
- Forming an active google group
- Competitions for the student of year
- Embedded system design challenge
- Electromania (circuit design)
- Design challenge for freshers
- Lecture series 2020
- Movie session on every saturday at 04.30 to 05.30 pm.

How to meet the objectives

- We show them the video clippings and java-based content which help in better understanding.
- We will ask them about their area of interest and help them to develop their ideas.
- We update them with each and every technical advancement happening around the world.
- We will take up mini projects and make them to work on it.
- Through our contacts we will invite the officials of several global electronic industries to have seminars.

Functioning of Tesla Club

The functions of the Tesla Club is to deal from basics of electronics to the peak of it. The domains of the club are designed in such a way that it provides all-round development of a student in all aspects. Teaching the students about the various components required to build both basic and complex circuits, helping them

design and built complex circuits, giving them hints and tricks to make a circuit work, detecting bugs present in a built circuit are some of the key functions of this club.

The Club provided a platform for young talent to bloom. Many found their hidden gifts and others faced and overcame their fears. While events like Poster Presentation, Power point Presentation, Singing, had prelims on Science week. Coding showed us where we stood in the IT world; others had another tale to tell. The events touched on every aspect, be it mental, physical or emotional.

On the occasion of Science day Students of Tesla Club, who went all out to show their expertise and abilities to change the world, on that day every student was presenting their best project and own the hearts of all the spectators and dignitaries. Projects like Biometric device, PCB drill Machine, Instant Solar Water Heater, Alcohol Detector, Programmable Power supply, Developed Short Clock and Score Board for Sport Department, had gain the special attention in the exhibition.

ON **1st March 2020**, The Farewell party was organized by Tesla Club Members (First year and second year student), was inaugurated by **Prof. R.P. Mali Head Department of Zoology** and in the presence of **Dr V.C. Borkar** Head Department of Mathematics, **Mr. G.S. Duthade**, Head Department of Physics, **Dr. Sanjay S. Nanware** Faculty of our college and BOS Chairman Zoology SRTMU, Nanded, **Mr. B. Balajirao**, **Dr. Dhanajay Bhure**, **Dr. P.R. Mirkute** Head Department of Electronics, **Dr. U.N. Chavan**, **Mr. Y.T. Nakate** and **Miss Geetanjali Patale** and all students .

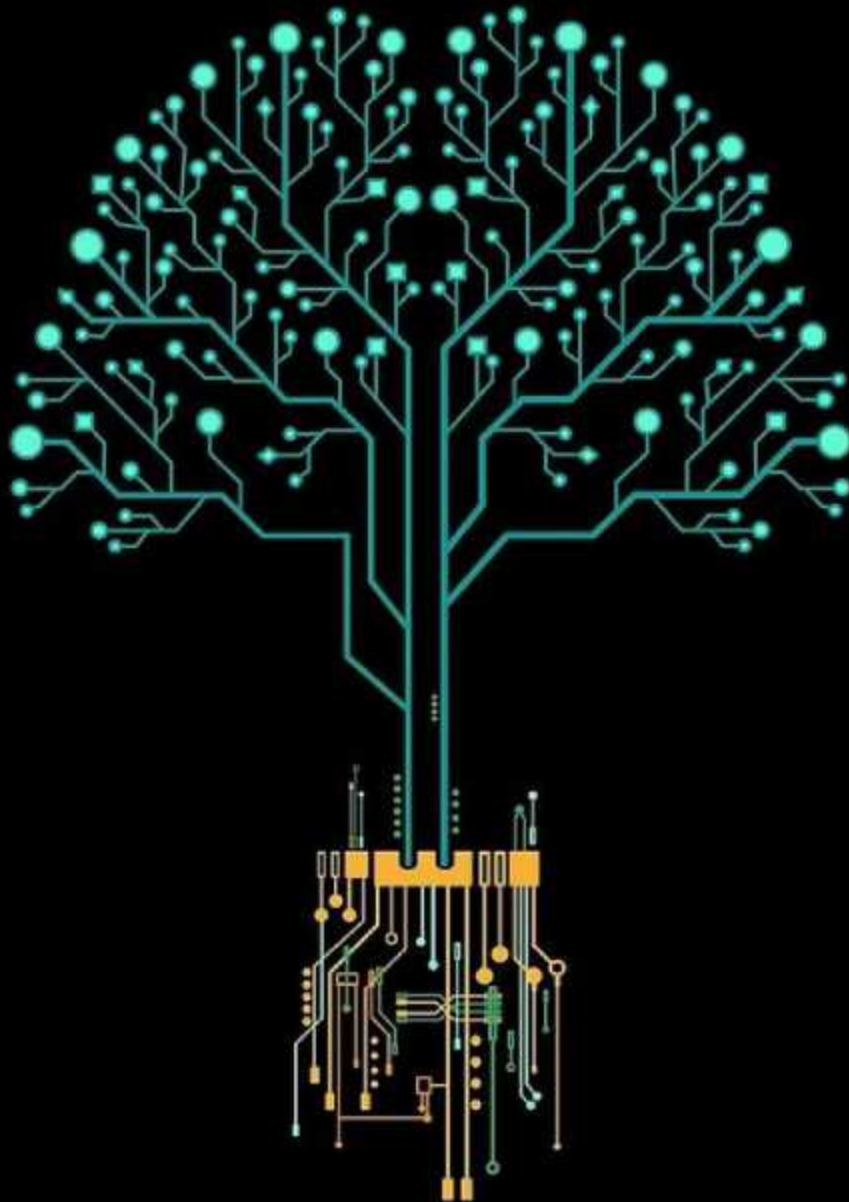
Prof. R.P. Mali gave us, an insight into the change around us and some tips to cope up with it. This day had in store all the finals of events. The events consisted of **Best Student of Year**, It was a tussle! All students put in their best to become the overall champions. The award of **best students of the year** goes to **Mr Akram** who represents all students were winners in their own way.

In pandemic situation due to COVID-19, Tesla Club Member developed Micro controlled based Auto Hand Sanitizer Machine.

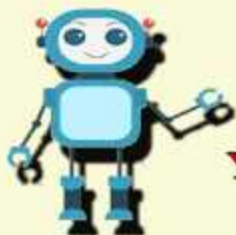
We all changed! Being a part of the Club was truly a remarkable experience, one to be cherished and never forgotten.

#The Pictures of Tesla club Executive body and their events are shown below.

Tesla Club



Department Of Electronics



TESLA CLUB

Department Of Electronics
Yeshwant Mahavidyalaya, Nanded.



Principal: **Dr. G.N. Shinde**; HoD: **Dr. P. R. Mirkute**; Mentor1: **Mr. Y.T. Nakate**; Mentor2: **Dr. U. N. Chavan**; Mentor3: **Miss Geetanjali Patale**; President: **Mr. Rahul Kundan Deepak**; Vice-President: **Mr. Rohan More**; Secretary: **Miss. Akanksha Bhosle**; PRO: **Mr. Abhijeet Kate**; PRO: **Mr. Abrar**; Members: **Mr. Gani, Mr. Shoeb, Mr. Tingre, Mr. Akram, Miss. Sakshi Kadam, Miss. Ganga Sitapwar, Mr. Tushar Gayakwad, Mr. Adnan, Miss Pushpanjali**



Short clock hand over to Sport Department By Tesla Club Member



Installed Short clock



Grand Opening of Tesla Canopy



Demonstration of Biometrics Machine By Tesla Members



Dr. Ganesh Shinde Playing Buz Game



Dr. Shendarkar Treasurer SSBES Nnaded



Demonstration of ESP32 CAM in Tesla Club Canopy by Junior college Electronics Student



Tesla Club Stall in



Tesla Member presenting poster in



Tesla Member presenting poster in Yeshwant Youth Festival



Tesla Member presenting poster in Yeshwant Youth Festival



Video Shooting with Drone



Tesla Robot Welcome to Mr. Magar, SP Nanded



District level First and Second Prize in Avishkar 2020

इलेक्ट्रॉनिक्स विभाग के विद्यार्थी को पुरस्कार



जिला संवाददाता | नांदेड़

Unive

स्वामी रामानंद तीर्थ मराठवाड़ा विश्वविद्यालय व दयानंद कॉलेज लातूर के संयुक्त से आयोजित की गई विद्यापीठ स्तर की आविष्कार संशोधन स्पर्धा २०२० में यशवंत महाविद्यालय के इलेक्ट्रॉनिक्स विभाग के विद्यार्थी शेख अब्दुल गनी व अतुल बालाजीराव टिंगरे ने इंजीनियरिंग तथा टेक्नॉलॉजी शाखा में से प्रथम पुरस्कार प्राप्त किया है। इसी तरह अभिजित अजयकुमार काटे व गंगा आनंद सीतापराव ने सायन्स शाखा से प्रथम पुरस्कार संपादित किया है। इसी तरह इन विद्यार्थियों का चयन मुंबई यहां पर संपन्न होनेवाली राज्यस्तरीय आविष्कार स्पर्धा के लिए चयन हुआ है। इन विद्यार्थियों को विभाग प्रमुख डॉ. प्रवीणकुमार मिरकुटे, प्रा. योगेश नकाते, डॉ. यू. एन. चव्हाण व प्रा. गीतांजलि पातले का मार्गदर्शन मिला। इस यश प्राप्त हेतु महाविद्यालय के प्राचार्य डॉ. गणेशचंद्र शिंदे, उपप्राचार्य डॉ. यू. एस. सावंत, आविष्कार समन्वयक डॉ. वी. सी. बोरकर, तथा प्रबंधक संदीप पाटिल ने विद्यार्थियों का तथा मार्गदर्शक प्राध्यापकों का अभिनंदन कर अगली स्पर्धा के लिए शुभच्छाएं दीं।

rsity level First Prize in Avishkar 2020



Demonstration of Programmable power supply model in Anvension-2020



First Prize in Anvension-2020



Tesla

Robot Welcomes dignitaries, Hon'ble D.P. Sawant Secretary, SSBES Nanded, Shri. Vijaykumar Magar (I.P.S) SP Nanded, Shri Narendra Chavan, Working Committee Member, SSBES Nanded and Dr. Ganeshchandra N. Shinde Principal, Yeshwant Mahavidyalaya , Nanded.



Dr. Ganeshchandra N. Shinde Principal mentioning the only one digital notice board in college campus



Demonstration of Low Cost PCB Drill Machine By Mr Adnan



Demonstration of Low Cost Automatic Digital Blood Pressure Monitor by Mr. Abrar



Demonstration of Low Cost Biometrics Attendance Machine by Mr. Abdul Gani



Demonstration of microcontroller based alcohol detector



Shri. Vijaykumar Magar (I.P.S) SP Nanded, playing Buzz Game



Demonstration of microcontroller based Programmable Smart Power Supply by Ku. Ganga Sitapwar



Junior College Electronics Student demonstrated LED Matrix



Junior College Electronics Student Mr. Aditya Chavan demonstrated ESP32 CAM



Low Cost instant Solar Heater water design and assembled by Mr. Vikas and Mr. Gani



Group

Photo with Dignitaries



Memento of Best Student of the Year 2019



Best Student of Year Mr. Shaikh Akram

Under the hood of Tesla Club, Student of Department of Electronics are participating to various activity in
Yeshwant Youth Festival -2019

Department wise Exhibition event.

Sr	Name of Students	Class	Topic
1	Mr. Atul Balajirao Tingre Mr. Vikas Madhavrao Kalyane	B.Sc. III B.Sc. III	Bio-metric Attendance
2	Mr. Kate Abhijeet Mr. Tushar Gajewad	B.Sc. II B.Sc. II	Smart Power Supply for Lab
3	Ku Sakshi Ganeshrao Bhosle Ku. Akanksha Pratap Kadam	B.Sc. I B.Sc. I	Magical Piano
4	Mr. Ketan Vijay Aher	B.Sc. I	Contact Less Voltage Detector
5	Mr. Kapil Tomke Mr. Maroti Vitthal Dhulgande	B.Sc. I B.Sc. I	Line Follower Robot
6	Mr. Shaikh Akram Shaikh Ahmed Mr. Rahul Kundan Deepak	B.Sc. III B.Sc. III	Joystick Controlled Robot
7	Ku. Deepali Prataprao Chavan Ku. Manjusha Omprakash Basre	B.Sc. III B.Sc. III	Alcohol Detector
8	Mr. Janardhan Vishwanath Jadhav	B.Sc. III	Fire Detector
9	Ku. Pushpanjali Ganesh Kadam	B.Sc. II	Clap Controlled Home Electricity
10	Mr. Aditya Shivaji Chavan Mr. Prajwal Suryakant Kamble	XI	ESP32 CAM
11	Mr. Mangesh Parmeshwar Kattulwad	XI	LED Matrix
12	Mr. Sk. Abdul Gani Sk. Farooque	B.Sc. III	Instant Solar Heater
13	Mr. Soheb Abrar Shaikh Raheemuddin	B.Sc. I	Pulse Monitor
14	Mr. Adnan Md. Gayasuddin	B.Sc. I	PCB Drill Machine
15	Mr. Prajwal Shivling Waghmare Mr. Prashant Shivraj Yeotikar	B.Sc. III B.Sc. III	Buzz Wire Game
16	Md. Shahed Ahmed Md. Khaled Ahmed	B.Sc. I	Camera Drone

Powerpoint Presentation

Sr	Name of Students	Class	Topic
1	Mr. Sk. Abdul Gani Sk. Farooque	B.Sc. III	Recent Advances in Science
2	Mr. Samadhan Govind Chavhan	B.Sc. III	Recent Trends In Languages and Social Sciences
3	Mr. Prajwal Shivling Waghmare	B.Sc. III	Recent Advances in Science

Poster Presentation

Sr	Name of Students	Class	Topic
1	Ku. Kadam Akanksha Pratap	B.Sc. I	Global Warming
2	Ku. Bhosle Sakshi Ganeshrao	B.Sc. I	Global Warming
3	Mr. Rohan Anil More	B.Sc. II	Global Warming
4	Mr. Kapil Sahebrao Tomke	B.Sc. I	Global Warming
5	Mr. Rahul Kundan Deepak	B.Sc. III	Indian Economy
6	Mr. Tingre Atul Balajirao	B.Sc. III	Indian Economy
7	Md. Shahed Ahmed Khaled Ahmed	B.Sc. I	Global Warming

Vocal Presentation event

Sr	Name of Students	Class	Topic
1	Ku. Sakshi Ganeshrao Bhosle	B.Sc. I	Song- Bhavgeet
2	Mr. Samadhan Govind Chavhan	B.Sc. III	Song -LokGeet

Winner in Youth Festival 2020

Mr Vikas Kalyane and Mr. Atul Tingre - **Bio-metric Attendance (First Prize – Sr. College)**

Mr. Mangesh Parmeshwar Kattulwad – **LED Matrix (First Prize – Jr. College)**

Mr. Aditya Shivaji Chavan & Mr. Prajwal Suryakant Kamble- **ESP32 CAM (Second Prize – Jr. College)**