



**SVKM'S
SHRI BHAGUBHAI MAFATLAL
POLYTECHNIC**



Electrical Engineering's e-Newsletter

ELECT विद्ययाय



EDITORS



ELECTRICAL ENGINEERING DEPARTMENT

- Mrs. Ajayshree Kinhekar
- Master Jainam Makadia

VOLUME 2

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2021-2022



SHRI VILE PARLE KELAVANI MANDAL

Shri Vile Parle Kelavani Mandal is a Public Charitable Trust. Started in 1934, SVKM has grown into a big educational complex. Over the past 80 years, the Mandal has developed a large educational complex in Vile Parle. It has also in its family schools from Nursery to Secondary, Jr. College providing ICSE or IB, IGCSE curriculum or CBSE curriculum. With a strong vision and passion for being the pioneers of the modern education system, all SVKM institutes are state of the art, with ever expanding facilities and infrastructure. The Mandal has now grown into an educational foundation promoting global thinking consistent with national interest and promoting the values, professionalism, social sensitivity and dynamic entrepreneurship.

Shri Bhagubhai Mafatlal Polytechnic


Estb. in 1963, the Polytechnic has developed excellent interaction and liaison with industries and has received financial support for a variety of projects and towards equipment support. The Polytechnic is a grant-in-aid autonomous institution and has developed Sandwich Programmes. The Polytechnic is being managed by the duly constituted Managing Council.



OUR DEPARTMENT

This Course lays emphasis on Electricity Generation, Distribution and Utilization. It covers subjects like Electricity Fundamentals, Electrical Engineering Materials, Drawing and Estimation, Electrical Machines, Electrical Power Generation and Distribution, etc. In addition, the student is also acquainted with subject like, Basic and Applied Electronics, Mechanical Engineering, Energy Audit and Conservation, Testing and Maintenance, Management, etc. Students passing the Diploma Course in Electrical Engineering can get employment as Junior Engineer in Organization like State Electricity Board, BEST, Railways, Generating Stations, Electrical equipment Manufacturers, etc.

The student can work as an in-charge in Erection and Maintenance of Electrical Installations, Power Grid, Electrical Traction, Switchgear. There is scope to work as an Electrical Engineer for Manufacturing of Electrical Equipment, Machines, Appliances, Testing and Calibration at various Industries and organizations. They have also an opportunity to work as Sales and Service Engineers.



ELECTRICAL ENGINEERING

VISION

To create Electrical Professionals with technical competencies and social values to serve industry and society.

MISSION

M-1: To impart industry oriented Technical Education to enhance the employability of Electrical engineering graduates.

M-2: To create an ecosystem for developing Entrepreneurial skills.

M-3: To enhance industry-institute relationship for lifelong learning.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO 1: Diploma Electrical Engineering Graduates will solve electrical engineering problems with acquired technical and soft skills.
- PEO 2- Diploma Engineering Graduates will be able to work individually & in a team in multidisciplinary environment.
- PEO3- Diploma Graduates will become successful Entrepreneur having sense of social responsibility

PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO1- Demonstrate the responsibilities as an Electrical supervisor in various sectors using various tools and techniques for best run of the plant.
- PSO2- Design, operate, test Electrical installations and Maintain Electrical machines with technical knowledge & skills.


MESSAGE FROM OUR HOD



On Behalf of Electrical Engineering department of Shri Bhagubhai Mafatlal Polytechnic, Mumbai which is established in the year of 1963. It gives me deep sense of pleasure to welcome all. Electrical Engineering is the genesis of all Engineering fields that deals with the technology of Power Generation, Transmission and Distribution of Electricity, Switchgear & Protection, especially the design and applications of circuitry and Electrical machines like Transformers, Motors etc. It also deals with

modern courses like Industrial Instrumentation, Automation.

One of our unique feature is that our students are sent to various industries for 6 month Inplant Training where they get an opportunity to covert their knowledge and imagination into reality and to get complete technical knowhow which will make them employable in future.



The department moves with a vision as “To create Electrical Professionals with technical competencies and social values to serve industry and society.”, making them competitive & conscious Diploma Engineers. They will be ready to accept challenges in industry & to serve for the betterment of the society. Department is committed for overall development of diploma holders who will be able to communicate effectively, adopt lifelong learning, act with integrity and have interpersonal skills with commitment to their ethical and social responsibilities.

The department provides a conducive environment for the students to participate and organise the expert session, Technical Quiz competition, poster making competition, Technical Paper presentation etc and various extra curricular activities for holistic personality development. The department has a dedicated & highly qualified faculty members supported by skilled non-teaching staff. More than 75 percent staff members are Post-Graduate in Engineering.

Further location of polytechnic, well qualified faculty members with average experience of about more than 15-20 years and supporting staff, well equipped laboratories, excellent academic results, strong tie-ups with the industries and the profound network of alumni are the strengths of the department.

Thanks to faculty members, alumni, Parents, Industry Experts, students and our well wishers for their continuous Guidance and support.

We are fully committed for creating the techno savvy diploma holders who will lead the state, nation and the world with their seamless knowledge and experience acquired for the serving the mankind at large.

Engineering or technology is all about using the power of science to make life better for people, to reduce cost, to improve comfort, to improve productivity, etc.

- N.R. Narayana Murthy



ABOUT OUR FACULTY

MR. NAMDEO
ADATE



Mr. Namdeo D. Adate working as a lecturer (Sel. Grade)/ I/C HoD in Electrical Engineering Department from 11th July, 2004 and is having experience of near about 18 years. He has completed his M.Tech (Power system) in June 2012.



Mr. Namdeo Adate participated in National Level Faculty Development Program on "Recent Trends in E.E." which was organized by Padm. Dr. V. B. Kolte College of Engineering, Malkapur.



MRS. AJAYSHREE KINHEKAR

Mrs. Ajayshree N. Kinhekar working as a lecturer in Electrical Engineering Department from 6th January, 2009 and is having experience of near about 13 years. She has completed her M. Tech (Power system) in June 2009.



Mrs. Ajayshree Kinhekar also, participated in National Level FDP on "Recent Trends in E.E." which was organized by Padm. Dr. V. B. Kolte College of Engineering, Malkapur.



Mrs. Ajayshree N.Kinhekar conducted Guest Lecture on the topic 'Contactor, LT & HT Switchgears' for the students of IV Semester Electrical Engineering on 28th April, 2022.

The speaker of guest lecture was Shri Mahadeo Masurekar who is working as a Deputy manager at BEST and also, on the 'Tenders, Contracts and Industrial wiring'.



Similarly, another Guest Lecture was conducted on the topic 'Residential & Factory Wiring' for the students of IV Semester, E.E. Department on 29th April, 2022.

The speaker of this guest lecture was Mr. Karan Choksi who is working as a cost estimation engineer at Sterling & Wilson Pvt. Ltd. and also, on the 'Tenders, Contracts and Industrial Wiring'.

Also, as a part of our curriculum, an Industrial Visit was planned and attended by the students of IV Semester, E.E. Department at Paras Pump Pvt. Ltd. in Valsad on 25th May, 2022.



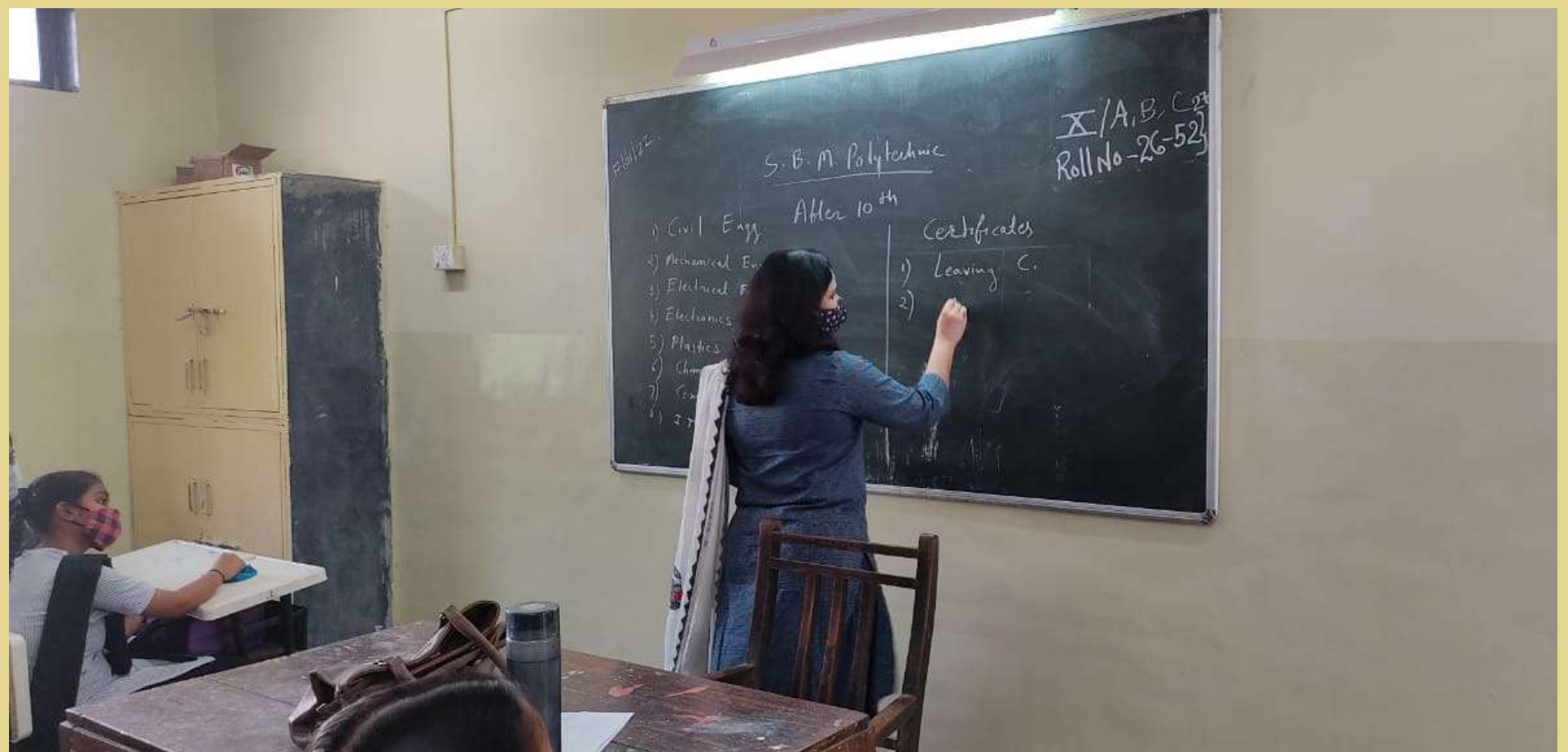
Another I.V. was planned and attended by the students at BEST in Mumbai Central on 7th June, 2022 under the guidance of Shri Namdeo Adate & Mrs. Ajayshree Kinhekar.



CAREER GUIDANCE PROGRAMME

Name of the School: Shri Saraswati Night High School,
Goregaon(W)

Name of the Coordinator from the Institute: Mrs.
Ajayshree N. Kinhekar, E.E. Department.



MR. DINESH RAJMANDAI



Mr. Dinesh G. Rajmandai working as a lecturer (Senior Grade) in Electrical Engineering Department from 7th January, 2009 and is having an experience of near about 13 years.

CAREER GUIDANCE PROGRAMME

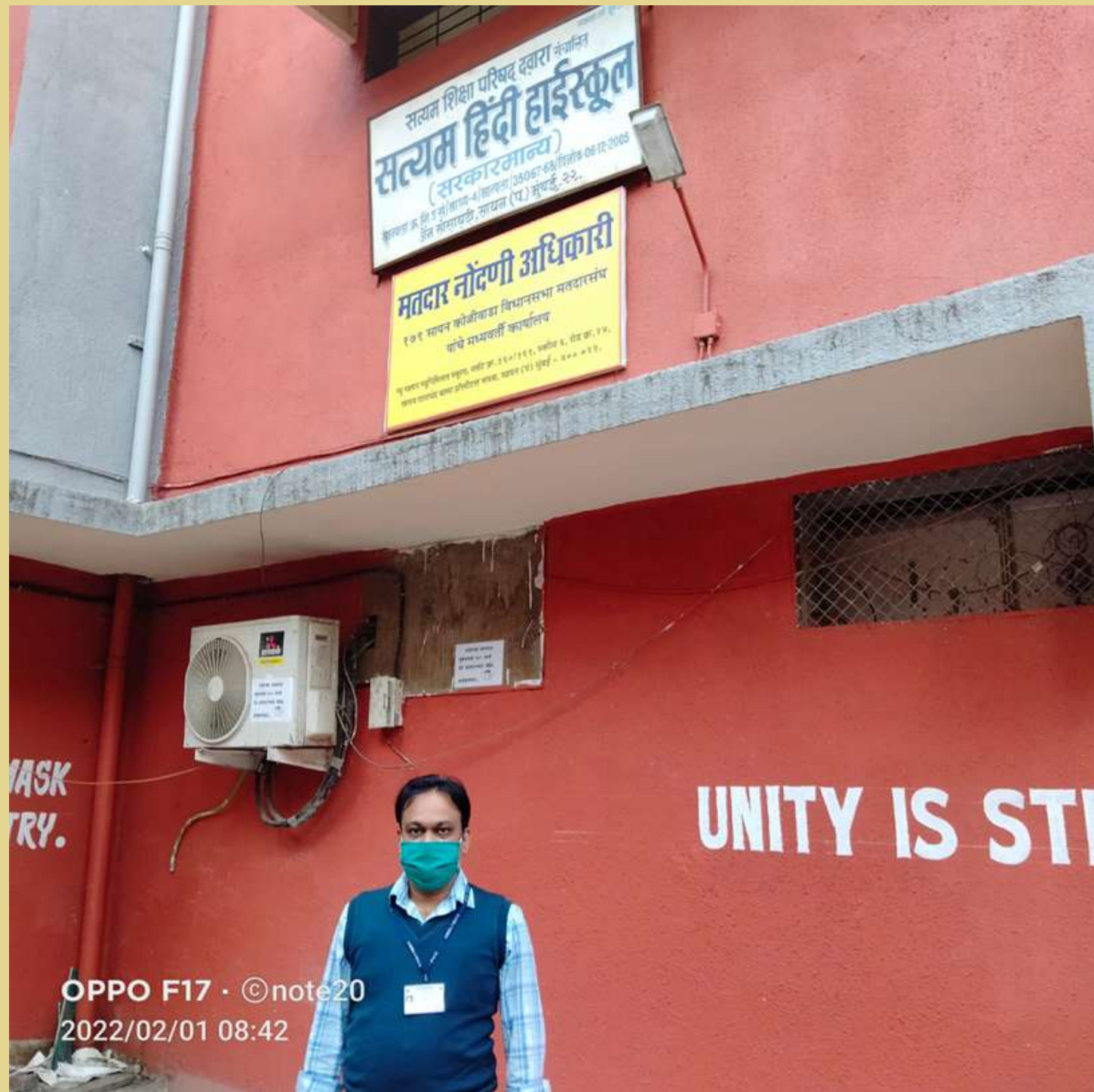
Name of the School: Maharashtra Vidyalyaya,
Goregaon(W)

Name of the Coordinator from the Institute: Mr.
Dinesh G. Rajmandai, E.E. Department

Number of Students attended: 57

Date: 21/01/2022





Name of the School: Satyam Hindi High School, Sion (W)

Name of the Coordinator from the Institute: Mr. Dinesh G. Rajmandai, E.E. Department

Number of Students attended: 104

Date: 01/02/2022

Name of the School: M.T.S. Khalsa High School,
Goregaon(W)

Name of the Coordinator from the Institute: Mr.
Dinesh G. Rajmandai, E.E. Department

Number of Students attended: 36

Date: 21/01/2022



MISS. URVI SAWANT



Miss Urvi Sawant, working as a lecturer in Electrical Engineering Department from 6th January, 2009 and is having an experience of near about 7 years. She has completed her M.Tech (Power system) in July 2014.



Guest lecture and demonstration on 'Plastics and their Applications in Electrical Industry' by Mrs. Meghna Humbal on 11th May, 2022 for the students of II Semester.



Interaction lecture by counsellor Mrs. Vanmala Rao on 27th May, 2022 for the students of IV Semester.



Guest lecture on Metro Rail Systems: Mr. Vivek Dhadam on 4th May, 2022 for the students of VI Semester.



An Industrial Visit was planned and visited by the students of IV Semester, E.E. Department at Evergreen Engineering Co. Pvt. Ltd. in Vasai (E) on 4th June, 2022 by seeking the permission of Miss Urvi Sawant & Mr. Dinesh Rajmandai.

MR.SURESH SALVE



Mr.Suresh S. Salve (M.Sc -Physics) working as a lecturer (Sel. Grade) / in Physics Department (Electrical Engineering Department) from 11th July, 2004 and is having an experience of near about 18 years.

OUR ALUMNAE

KARAN CHOKSI
(B.E. ELECTRICAL)



Tendering Specialist, Hitachi Energy Limited, India

ABOUT ME:

Before I start, I would like to first, thanks all my Professors of S.B.M. Polytechnic because of whom I can present my success story.

INTRODUCTION:

To begin with, I was born and brought up in a middle-class family in Mumbai with no extra-ordinary skill set and an average student who was passionate about the engineering from the very tender age, and always loyal to the organization and passionate to become a CEO of a reputed organization of the country which is my dream and I know I will be going to achieve that.



Always believed in one quote as follows:


“Hard work, Patience, perseverance and taking calculative risks will lead you on the path of success”.

ACADEMIC CAREER:

I joined S.B.M. Polytechnic in 2011 in an Electrical Engineering department and I would like to highlight this institute had a one of the best academic programs, lab facility & teaching staff in India. During the academic course, I have been an intern in B.E.S.T (Electrical distribution company in South Mumbai) and Siemens Ltd. I completed my Diploma program in 2015 with a distinction and enrolled into Degree program at Viva Institute of Technology along with an internship in Indian Railways, Lower Parel, Mumbai. The degree program got completed in 2018 with a first-class grade.

PROFESSIONAL CAREER:

During my degree program, I worked for a cost estimator in an electrical contractor called Moonlight Electricals in Andheri as a part timer in the evening for 4 hours and gained an experience of 2 years before completing degree program. After completion, I got a chance in one of the most reputed project company in India named as Sterling and Wilson Ltd. where I have handled cost estimation and tendering for MEP (Mechanical, Electrical, Firefighting and Plumbing) for various Industrial, Government, Commercial and residential clients and ended my journey in June 2021 and was associated in the



costing of electrical works for redevelopment of S.B.M. Polytechnic which was later won by us and completed in the year 2019. In June 2021 took a bold decision to work for Hitachi Energy Ltd., Chennai as a cost estimator and a tendering engineer for electrical substations up to 400 KV for the United Kingdom Market.

Currently I am dealing with vendors from all over European Union, Asia Pacific, and America. I am quite fortunate to deal with foreign nationals and client, which is boosting my self-confidence.

Before I finish, I would like to pass one message that "Theoretical Knowledge is an essential asset for any of the student or candidate which will create a strong base for your career foundation but, practical experience will help you to demonstrate the skills in the real world which will be built by your expertise floor by floor till you are satisfied".

Secondly, this decade is full of discoveries of new technologies so it is essential to learn about new things daily, which will lead you to the path of excellence.



RITESH SHAH

Founder of SwitchBazaar.com

ABOUT ME:

Ritesh Shah is a Founder of SwitchBazaar.com with decade of rich & insightful industry experience in company like RIL, Essar Project and L&T. Over the years, he has gained hands on expertise across diverse market verticals including Procurement, Business Development, Branding, Entrepreneurship and Startup.

EDUCATION:

Diploma in Electrical Engineering from Shri Bhagubhai Mafatlal Polytechnic, VileParle

B.E. in Electrical Engineering from A.C. Patil College of Engineering, Kharghar +PGDBA in SCM from Welingkar Institute of Management and Research, Matunga.

PROFESSIONAL EXPERIENCE:

Currently, Ritesh Shah is working as a Founder at

SwitchBazaar.com, which is India's 1st Electrical B2B Marketplace for Global Trade (i.e. connecting global buyers and sellers in SwitchBazaar platform in the field of electrical goods and services). In past, he had worked with Reliance Industries, KEC International and Essar Projects India Ltd.

JOURNEY AFTER SBMP:

My journey after SBMP was very exciting, since I got deep knowledge in my field with one year implant training, which has completely changed my thought process. Today I can proud to say I am 'SBMP Alumni'.

VISION:

- To be a leading Electrical B2B Marketplace for Global Trade
- To be an Essential Partner to all
- To Empower Electrical World by making easy to do business anywhere

ACHIEVEMENTS:

- Invited by IIT Guwahati as a speaker
- Invited by A.C. Patil COE as a chief guest on 'Engineer's Day' event
- SwitchBazaar success story has been published by many Indian and overseas media .

MESSAGE TO SOCIETY:

- Dream Big
- Never Give Up
- Believe in yourself.



JAY PATEL

(B.E. ELECTRICAL ENGINEER)

ABOUT ME:

I feel privileged and honored to introduce myself and I would like to thank my school & college to provide me the best education and now a platform to present myself.

Professionally, I am an Electrical Engineer and working for Oil and Natural Gas Corporation Ltd. as an associate electrical engineer. At ONGC, I am in charge of majority of maintenance of electrical machines and equipment (Motors and transformers).


EDUCATION:

B.E. Electrical Engineering from Pillai's HOC College of Engineering and Technology.

Diploma in Electrical Engineering from S.B.M. Polytechnic.

JOURNEY:

After my journey full of small hiccups and success, coming



from a small town named Dahanu to S.B.M. Polytechnic, I moved on to pursue my Bachelor's Degree in Electrical Engineering at PHCET, near Panvel and found a major setback when I failed in the second year after I faced a year drop because of failing at seven subjects. But that changed me and taught me to grind my way through engineering smoothly and finally, I succeeded in cracking the exams for graduate trainees at ONGC in the year 2019. After my good record, I was offered a job for the vacant spot for an electrical engineer and I didn't miss the chance. My first success came after a year as I got promoted to the post of Associate Engineer and have been thriving, dedicated to efficiently perform my duty and have never looked back since then.

VISION:

My vision is to find efficient and Eco-friendly methods of operation on industrial level not only for ONGC, but also for all the large scale production companies in our country to put India's name at the center of world stage.

MESSAGE TO SOCIETY:

Small failures don't make you lose in life, But negative mentally does.

STUDENTS ACTIVITY

TECH FEST 2022



A State Level Technical Paper Presentation Competition was organized by the students & teachers of Electrical Engineering Department and Electronics and Telecommunication Department of S.B.M.P. on 14th May, 2022. This was our first collaboration and paper presentation by our polytechnic.

Students from various colleges of Mumbai participated in this event. Participated students had to give a presentation on the given topics like *Embedded Systems & IOT, Drone Applications, Advances in Communication Engg., AI and Electric Vehicles, Sustainable Energy, Industrial Automation, Emerging Trends in E.E.* for EXTC & Electrical Dept. respectively. Also, judges were appointed for the same. Each student was able to showcase his/her skills during their presentation.

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Master Shrey Kanjaria of Semester VI, Electrical Engineering Department had won 1st Prize in this State Level Paper Presentation Competition.



ISNEE'S QUAD BIKE EVENT

TEAM HYPERION



We also participated in Quad Torc event which is organized every year by ISNEE which involves designing and manufacturing a Quad Bike (ATV) by following some rules and regulations.

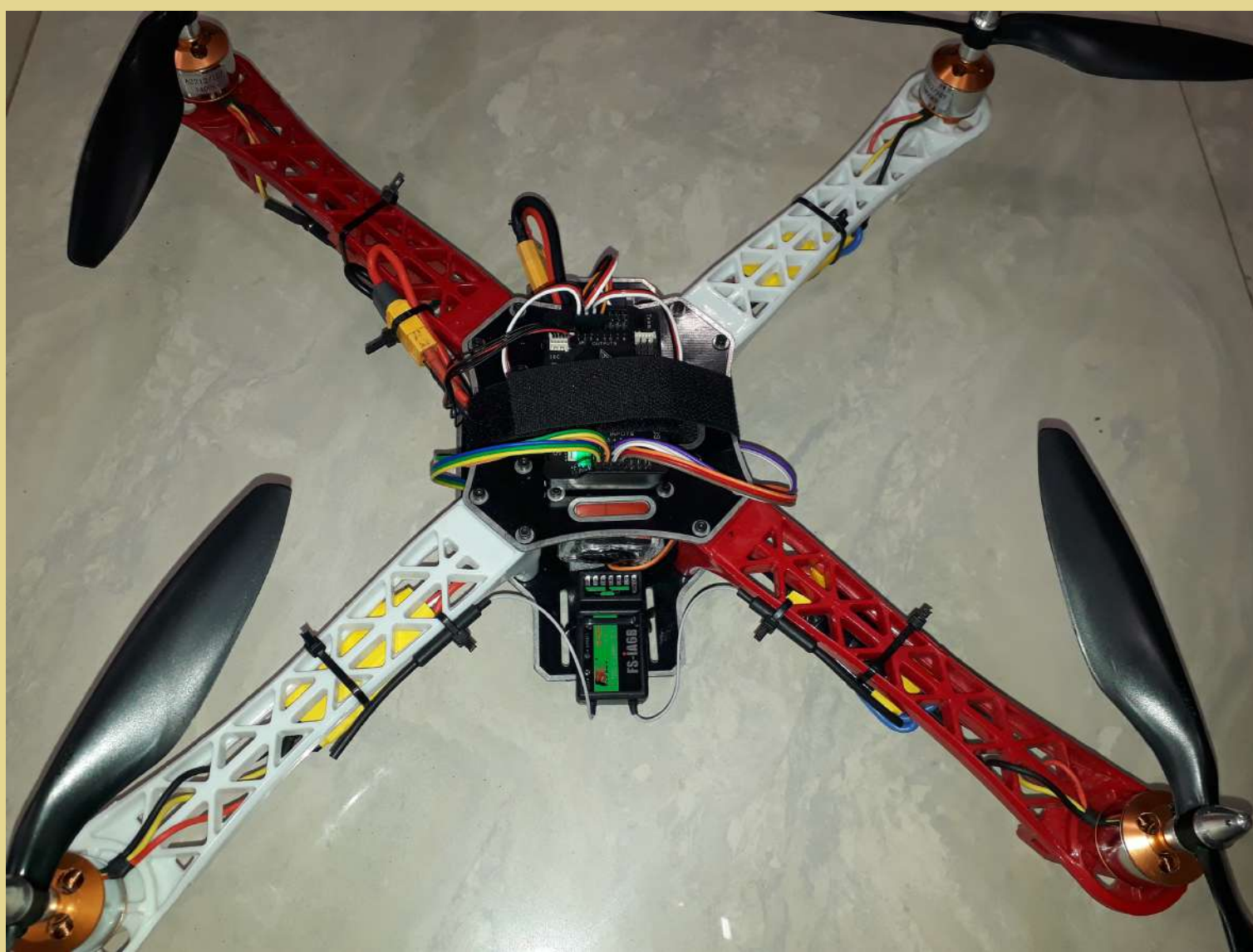
Students from different Degree colleges come together to participate. S.B.M.P. is the only polytechnic where selected Diploma students from different departments participate.



This year (2022) was our 2nd time successful participation in Quad Torc. We won 'Emblem of Appreciation' and 'Surprise Award' along with the certificates.



PROJECT DRONE



A drone making project was assigned to the students of S.B.M. Polytechnic who were interested in designing and manufacturing or building up a drone with any of its application.

Funding was also provided by the polytechnic itself. Students of different departments participated in this project and among them one was Electrical Department.

After all our efforts and hard work, we made and showcased our 2 drones which were successful during the final presentation day.



THANK

YOU