



**SVKM'S  
SHRI BHAGUBHAI MAFATLAL  
POLYTECHNIC**



*Elect*  
विद्युत्



**Electrical Engineering's e-Newsletter**

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# EDITORS

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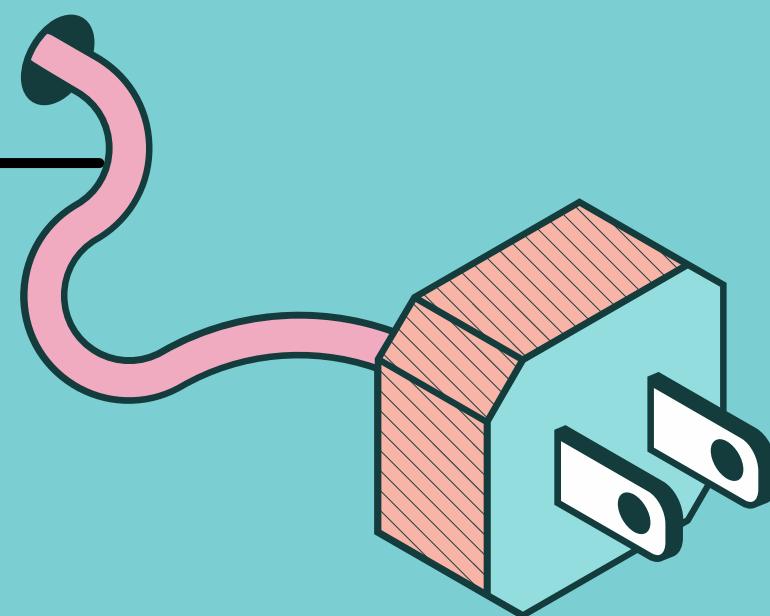


## ELECTRICAL ENGINEERING DEPARTMENT

- Mrs. Ajayshree Kinhekar
- Master Jainam Makadia
- Master Ratan Kunwar
- Master Shrey Kanjaria

# VOLUME 1

## INDEX



- About SVKM
- About SBMP
- About Department
- Vission, Mission, PEOs & PSOs
- HOD Message
- Our Faculty
- Our Alumnae
- Students Activity
- Students Achievement

2020-2021





# 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.



Electric power is everywhere present in unlimited quantities and can drive the world's machinery without the need of coal, oil, gas or any other of the common fuels.

- Nikola Tesla





# ABOUT OUR FACULTY

MR. NAMDEO  
ADATE



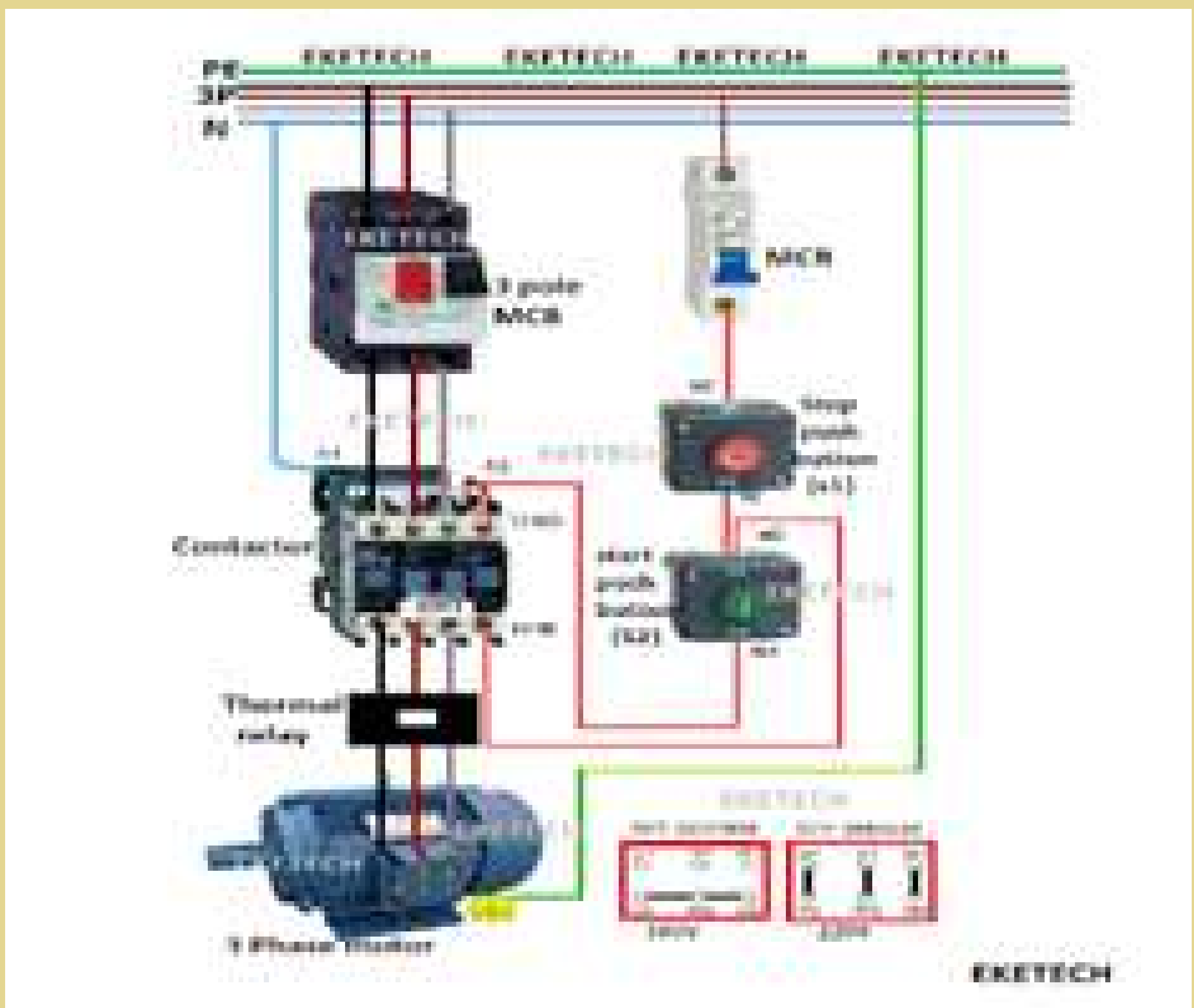
Mr. Namdeo D. Adate working as a lecturer (Sel. Grade)/ I/C HoD in Electrical Engineering Department from 1st July 2004 and is having an experience of near about 18 yrs. He has completed his M.Tech (Power system) in June 2012.



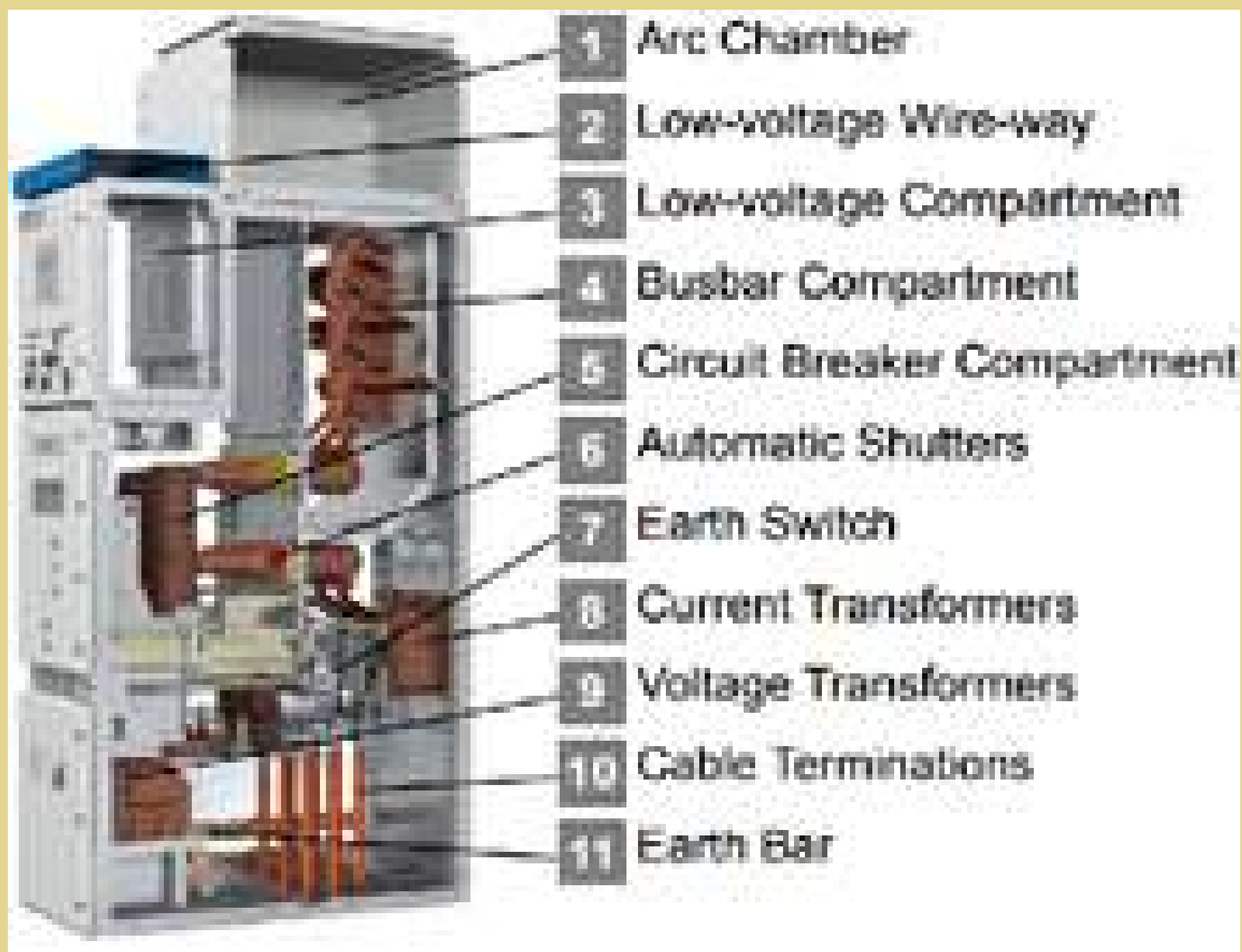
## MRS. AJAYSHREE KINHEKAR

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

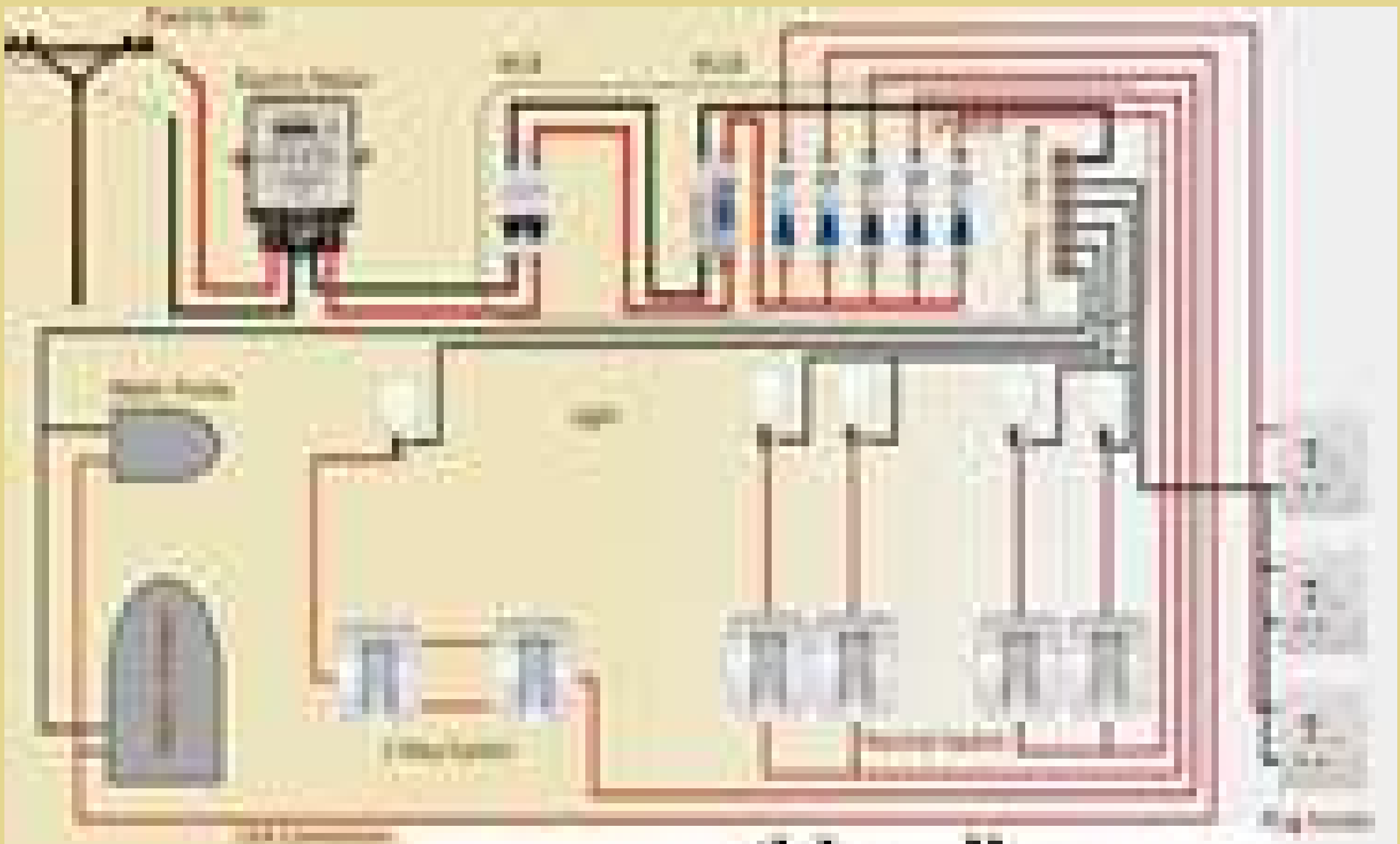
The speaker of guest lecture was Shri.Sandeep Tajane working as a Deputy manager in BEST and also, on the “Tenders, Contracts and Industrial wiring” for the students of IV Semester, E.E. on 9th June,2021 at 2.00pm.







The speaker of this guest lecture was Shri. Satishkumar Maurya working as a Project Engineer in TRANS Enterprises Pvt.Ltd.





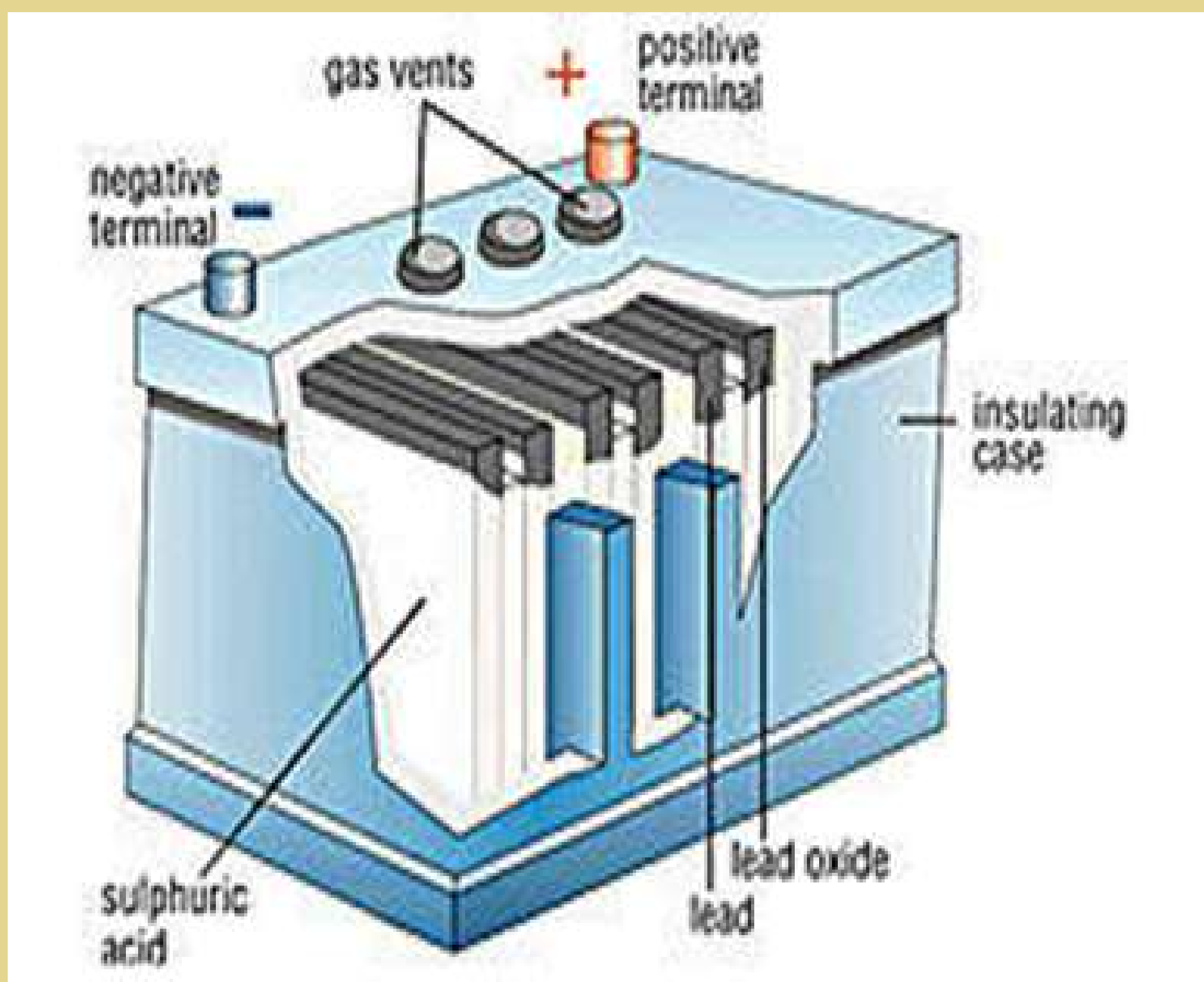
Mrs. Ajayshree N. Kinhekar attended following Faculty Development Programs:

1. Implementation of Outcome Based Education (OBE) for Holistic Development” organized between 4th Jan 2021 to 9th Jan 2021 by Electronics Engineering Department, SPIT Munshi Nagar, Andheri (W), Mumbai-400058
2. Two weeks Industrial training on IIoT which was organised by National small industries corporation LTD.

# 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.





Mr.Dinesh G.Rajmandai conducted Guest lecture on the topic:  
'Storage Batteries' for the students of III Semester, E.E. on  
Saturday, 13th February, 2021.

The speaker of guest lecture was Mr. Vivek Dhadam Station  
Controller, Maha Mumbai Metro Corporation.



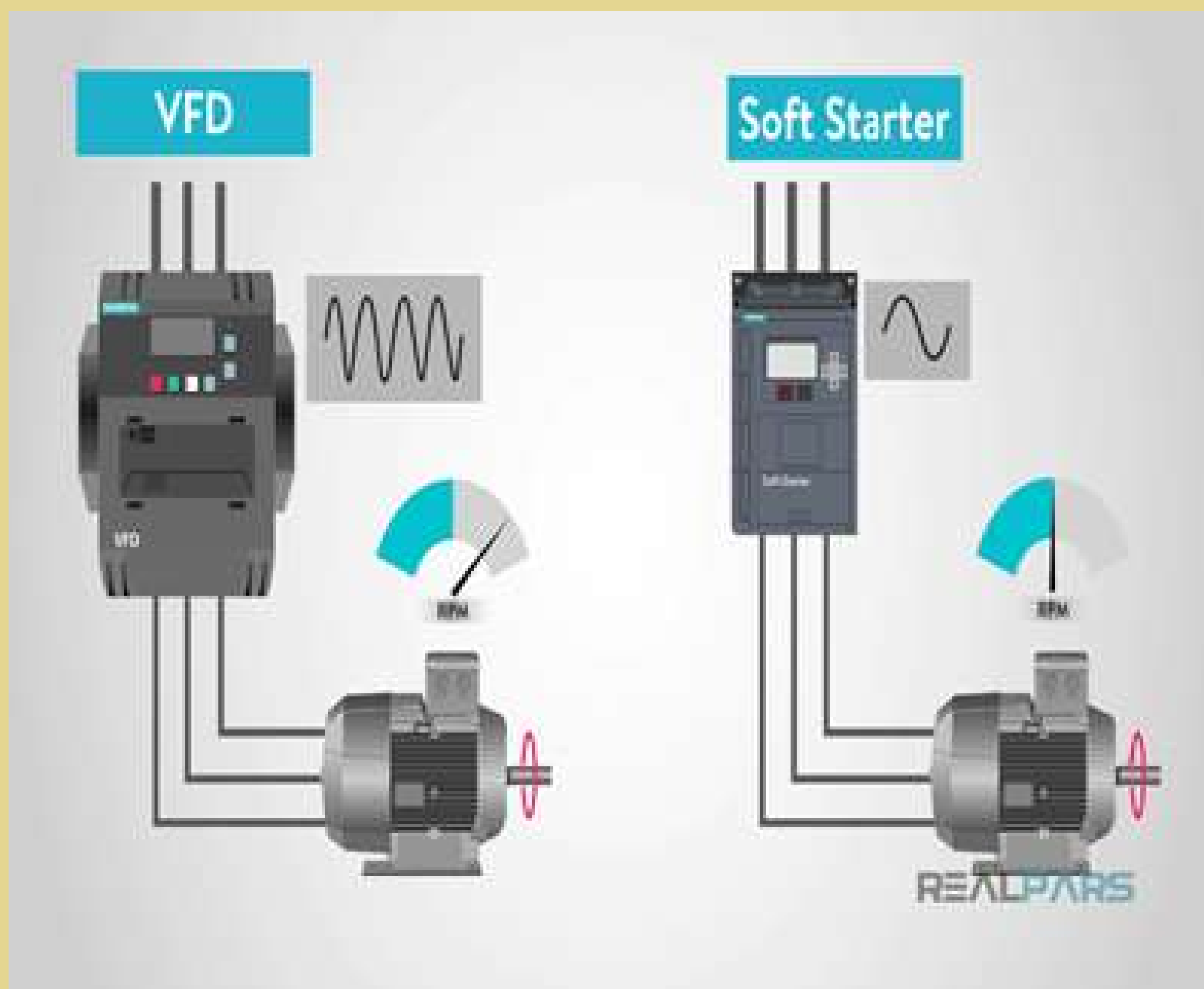
During covid situation Mr.N.D.Adate and Mr.D.G.Rajmandai  
visited 2 to 4 hospitals for inspection of Oxygen System of  
Hospitals



# 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



Miss.Urvi Sawant conducted Guest Lecture on 'Soft Starters and Variable Speed Drives' for IV Semester Electrical Engineering students on Tuesday, 8 th June, 2021 from 1:30PM to 3:30PM. The speaker of guest lecture was Mr Rajesh Shinde, Corporate trainer, AMT group industries, Nashik.



Ms.Urvi Sawant achieved M.Tech (Power System) Degree from V.J.T.I on September 2021.



Mr. N. D. Adate, Mrs. Ajayshree N.Kinhekar, Mr. Dinesh G. Rajmandai and Miss. Urvi Sawant attended following courses/webinars:

1. Creating Video using PPT 12th June 2021 SVKM, HR (Training) 1 Day (3:00P.M. to 5:00P.M.)

2. Understanding NBA Accreditation process 20th March 2021 SVKM, HR (Training) 1 Day (3:00P.M. to 5:00P.M.)

3. NBA Processes and Criterion: Overview 23rd March 2021 SBMP 1 Day (1:30P.M. to 3:30P.M.)

4. How to use smart board effectively 6th March 2021 SVKM, HR (Training) 1 Days (3:00pm to 5:00P.M.)

5. Live session on “Integration of renewable energy into the Indian grid” 12.05.2021 NPTEL 2 hours

6. MS Excel-VBA Macro 22.05.2021 SVKM HR 2 hrs

7. Webinar on ‘Applications of Microsoft power automate and virtual assistant for AI educational bots’ 05.06.2021 SVKM HR 2 hours.

# 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

PRATHAMESH SOMA  
HIRVE  
(ISRO'S FIRST SCIENTIST  
FROM MUMBAI)



## ABOUT ME:

Before introducing myself let me introduce my believes *“Take Risks In Your Life...If You Win, You Can Lead...If You Loose, You Can Guide!”*

-Swami Vivekananda

It's my great privilege and honor to be a part of SBMP, and I would like to thank my parents, friends, school & amp; college for providing me the best education and now a platform to present myself. I was born and brought up in Mumbai, Nitie, Powai. To serve my nation in any form is always my dream and passion to reach heights of space research help me to achieve my goal. My aunt and parents had taken me for an aptitude test in south Mumbai. The counselor told my parents that I should choose a career in Arts instead. I was upset, but refused to give up. I told my parents that no matter what,



I would become an engineer, and they believed in me & amp; my journey begins here. I got admission to SBMP in year 2007, since I have studied in a Marathi medium school up to Class X so by overcoming my language barrier, I completed my diploma course in 2011 & amp; stood 2nd in SBMP. As a profession I am Electrical Engineer posted at SCL-ISRO in Chandigarh.

### **EDUCATION:**

B.E. Electrical Engineering from Smt. Indira Gandhi College of Engineering, Mumbai.

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

### **JOURNEY AFTER SBMP:**

My journey after SBMP started from 2011, I have enrolled for B.E. in Smt. Indira Gandhi College of Engineering, Mumbai where I stood 2nd in the final year and secure 25th rank in Mumbai University. While preparing for UPSC engineering service I crack ONGC, Mahatransco, Mahagenco, Mahadiscom, Mumbai metro rail corporation & amp; BARC but I set my sights on the sky, and applied to ISRO. On May 2016, there were 16,000 candidates, out of which I was among the nine that got through. I struggled for 10 long years before I could reach ISRO.

### **VISION:**

*Your actions and deeds should always helps to inspire others to dream more, learn more, do more and to become more purposeful in life.*

## **ACHIEVEMENTS:**

Received offers from ISRO, ONGC, MAHATRANSCO, MAHAGENCO, MAHADISCOM, Mumbai metro rail corporation & amp; BARC  
Silver Medalist in BE Electrical Engineering.

## **IF ANY AWARDS ETC.:**

*Yuva scientist awards from anti dowry movement.*

You can watch My Interview held on National Television on the below Links:

[https://timesofindia.indiatimes.com/videos/city/mumbai/from-mumbai-slum-to-an-engineer-25-yr-old-](https://timesofindia.indiatimes.com/videos/city/mumbai/from-mumbai-slum-to-an-engineer-25-yr-old-prathamesh-hirve-qualifies-for-isro/videoshow/61934186.cms)

[prathamesh-hirve-qualifies-for-isro/videoshow/61934186.cms](https://timesofindia.indiatimes.com/videos/city/mumbai/from-mumbai-slum-to-an-engineer-25-yr-old-prathamesh-hirve-qualifies-for-isro/videoshow/61934186.cms)

<https://youtu.be/hBeRGy3PqGc>

[https://youtu.be/673R902f\\_Q4](https://youtu.be/673R902f_Q4)

## **YOU CAN ALSO GOOGLE ME:**

<https://theteenagertoday.com/prathamesh-hirve-from-the-slums-to-the-stars/>

<https://www.mumbailive.com/en/society/powais-slum-boy-prathamesh-hirve-joins-isro-as-an-electrical-scientist-will-be-posted-at-chandigarh-18266>

## **OTHER EVENTS:**

Worked with Happy To Help Foundation, Powai for distribution of essential stuffs during Maharashtra Flood 2019.

## **MESSAGE TO SOCIETY:**

*Love What You Do, you'll never face fear of failure.*



# YANKEET KAWA

**Facilities Management Manager, Transguard Group,  
Dubai and an Entrepreneur**

## **ABOUT ME:**

Before I start, I would like to thank all my teachers of SBMP because of whom today I am able to present my story.

To begin with, I was born and brought up in Mumbai with no extra-ordinary skill set but all I dreamt was only about a Business and to define it in a layman language “Work for yourself and be your own boss” and my this passion became aggression when for the first time I came across the most common saying:

“If you don’t build your dreams someone else will hire you to help build theirs”

## **ROAD PATH OF DREAM:**

I joined SBMP in 2007 in an Electrical faculty and I must say this institute has been the best teacher of my life.



During the academic course I have been an intern in Tata power and Parle products. It was my last Semester in 2011 where I got selected in a campus interview for a well-established company of Dubai and allow me to tell you that I was the only student among 78 interview candidates from entire college.

*“Your academic grades don’t define or drive your SUCCESS”*

It was 2012, where I started my career in Al Shirawi Facilities Management in Dubai and I worked as a Trainee Engineer and then I hit my first target where I got promoted to Solutions Engineer within 6 months of joining and I must say that it was not at all easy and I realized it is going to be way tougher than I dreamt of all about.

It was after two years where I came across another opportunity within Dubai where I got lucky to be in as a Senior Solutions Engineer in one of the most reputed group company of Emirates Airline. Years and years spent where promotions and appreciations took a major turn where I was offered a Managerial Position.

Finally, after years of hard work, struggles, negative feelings, and many more, the day came in 2017 where I was finally able to feel my years-long waited for dream where I started my business of my own in Dubai.

Before I finish, I would like to pass one message that *“if the group, one belongs to does not have any topic of idea or success, along with fun-loving talks then one should reconsider the group, they are in”*.





# RASHMI KAMDE

## (LECTURER IN E.E. DEPARTMENT, K.J.S.P.)

### ABOUT ME:

It gives me immense pleasure to introduce myself on this platform which gave me courage to follow my dreams and passion in my early days of struggle. Dr Abdul Kalam has rightly said that teaching is a very noble profession that shapes the character, calibre, and future of an individual. I always wanted to be in teaching profession since I was in school and my inclination towards the profession escalated after I took admission for diploma in SBMP. Teachers here had a great impact on me. So here I am doing what I always wanted to. As a lecturer in KJSP, I got opportunity to work as Convener, Women Development Cell for 5 years and Vice-Chairperson Student's forum for 2 years which enriched my experience as a person.

Besides teaching I love to travel and explore new places, read books, play outdoor games like Badminton and Swim. Sudha Murty, Chairperson of Infosys Foundation, is my inspiration.

Her contribution to teaching, literature and social work is remarkable and I thrive to be like her one day.

### **EDUCATION:**

M. Tech (Power system) from VJTI, Mumbai

B.E. Electrical Engineering from BVCOE, Pune

Diploma in E.E. from S.B.M. Polytechnic, Mumbai.

### **JOURNEY AFTER SBMP:**

My journey after SBMP, was a bumpy ride with full of challenges. After completing my B.E. from BVCOE, I started working as Lecturer with SBMP. It was a very comfortable job with my teachers again mentoring me and training me to work at all levels without any hesitation. It really played a very crucial role in what I am today. Further I worked with VJTI as Lecturer in Electrical Engineering Department. In March 2011, I joined KJSP as Lecturer in Electrical Engineering Department. In 2015, I joined M.Tech power system program in VJTI while in service & successfully completed in 2017. I am enjoying my work here at KJSP as the environment here promotes growth and freedom to follow your dreams and passion.

### **VISION:**

My vision as a teacher is to create a culture of innovation and inquiry and show students that they are powerful actors in society.

## ACHIEVEMENTS:

1. Journal paper -“An IoT based Real Time Efficient Power Controlling & Monitoring” in IJAREEIE, Volume 6, Issue 6, June 2017.
2. Organized a Self Defense Training Program for girl students of KJSP in which 150 plus participants got benefited.
3. Organized a lecture on Awareness and Myths of Breast Cancer by Founder of NGO Pink Initiative Mrs. Ujwala Raje for the faculties and staff of KJSP.
4. Organized a lecture on Use of Yoga & Medicine to Improve Women Health by renowned gynecologist Dr. Ulka Natu for the faculties and staff of KJSP.

## MESSAGE TO SOCIETY:

*Be like a tree. Stay grounded. Connect with your roots. Bend before you break. Enjoy your unique natural beauty and keep growing.*





# POONAM GIRI

## ABOUT ME:

Being successful is the desire of all of us residing over this beautiful planet mother Earth.

It does not matter whether the concerned person is a child, youth or the old aged, at each stage of our wide life span, it is our inbuilt desire to be successful and proceed forward consistently towards more massive success.

I was born and brought in a village Varor near Dahanu and its my honor to get admission in SBMP for technical education for batch 1994. SBMP was well known college for technical education at that time and till now.

Since, I have studied from Marathi medium up to class X, overcoming the language problem I have completed my Diploma and got the job opportunity where I had Implant training.



As being from a rural village, it was a little difficult to cope up with the people in a big city like Mumbai. But I was determined to make a name in this field of Electrical engineering.

But career and life doesn't stop, and it goes on and on, opportunities are always attracted.

Career development is a lifelong process of managing learning, work and transition in order to move toward a personally determined and evolving preferred future.

Apart from this, I also encourage people around me by my positive approach towards my life, by positive attitude and positive vibes. My helping nature always attracts people who are in need.

## **EDUCATION:**

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

## **JOURNEY AFTER SBMP:**

And entering to the engineering consultancy, my desire was fulfilled. I got the lot of opportunity to work with Engineering consultancies like Shroff & Associates, B. Mehtalia, WSP consultants (Achieved best performer award for 2 years) and S.N. Joshi Consultants as a team leader.

## **VISION:**

To be like a tree that enriches others by dedicating their life and standing on their place that they have earned by keeping the roots strongest.

*Being positive, Being Divine.*



# HARSH SOLANKI (B.E. ELECTRICAL ENGINEERING)

## ABOUT ME:

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

Professionally I am an Electrical Engineer and working for Grune Design Pvt. Ltd as an Electrical Design Engineer.

At Grune Designs as a multi-disciplinary Consultants (Mechanical, Electrical & Plumbing. Engineering). I am involved in designing and coordinating Electrical & Extra low voltage services for the projects.

## EDUCATION:

B.E. Electrical Engineering from Viva Institute of Technology

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

## PRODUCT LINE:

At present I am involved in Planning and designing of Electrical aspects for three high rise Commercial towers which Includes Planning of HT Panels, Transformers, DG Sets, Developing Power flow Diagram (SLD), Cable & amp; switchgear sizing, Planning Lightning Protection system & amp; developing GFC Drawings.

## JOURNEY AFTER SBMP:

My journey after SBMP, is very simple and smooth, After Completing BE, I got opportunity to work with Ralys Engineering Consultants & Kalpataru Ltd. a Design Engineers. We as an alumni of SBMP carry core technical knowledge & its great legacy which is well received & recognized in the Industry.

## IF ANY AWARDS ETC:

Won *First Prize* at "*NEXTECH 2014*" a national level project exhibition for the project *ISLANDING SYSTEM* held at ST. XAVIER'S technical institute.

Won *First Prize* at "*NCRENB 2017*" a national level project exhibition for the project *SUPERCAPACITOR VEHICLE* held at VIVA Institute of technology.

Won *Second Prize* at "*IEEE OMEGA 2017*" a national level project exhibition for the project *SUPERCAPACITOR VEHICLE* held at Atharva college of Engineering"



# STUDENTS ACTIVITY

SHREY KANJARIA



Hi buddies! My name is Shrey Kanjaria and I am a student of 6th Semester Diploma In E.E. In my 5th Semester inplant training, I was doing an internship at *robocart.com* which dealt with electrical and electronics products for robotics and microcontroller based technology.

There, I learnt that how to programme and use various microcontrollers based technology and also, how to programme and use various microcontrollers like *Arduino* and *Node MCU* and developed many projects and prototypes which includes a humanoid robot.

I conducted various seminars in different schools guiding young children to pursue career in E.E. or EXTC.



# ARYAN AMARE

I, Aryan Amare, the student of 3rd Year SBMP, had conducted a 5 days Workshop on IoT for Parul University Gujarat. I conducted seminars and made projects on IoT, using **Arduino microcontroller** and **WeMos D1R2** and their applications.

The workshop was successfully completed with the representatives of the university making hands-on projects using IoT.





# DHRUV BORLE



I, Dhruv Borle, the student of III Year in SBMP, had conducted a training session and lab setup of *Atal Tinkering Lab* for *Atma Malik Madhya Gurukul*.

There' I assembled various robots and other robotics and mechanics related projects and also, guided the students in making them.

The students absorbed all the knowledge they could, very fast and learnt everything easily even though there were approximately **250** students to teach to.

It was a very new and amazing experience for me which taught me a lot about student mentality and understood the side of the teachers.





# STUDENTS ACHIEVEMENTS



## ACADEMIC: 2020-21

### 1st- year:

- 1ST- ABHISHEK SHARMA
- 2ND-JAINAM MAKADIA
- 3RD- AARYA SALVI



## CULTURAL EVENTS

- RASS EVENT
- TEACHER'S DAY
- CARNIVAL FESTIVAL
- MARATHI BHASHA GAURAV DAY
- ENGINEER'S DAY
- HINDI DIVAS

### CELEBRATION OF VARIOUS DAYS:

- TRI-COLOUR DAY
- TRADITIONAL DAY
- FORMAL DAY
- ROSE & CHOCOLATE DAY
- MISMATCH DAY
- BLACK DAY
- TWINNING DAY
- STATE DAY
- RED AND WHITE



## SPORTS ACTIVITIES

### CARROM:

- KARAN DHARIYA
- SHRAWAN RATNAPARKHI
- ABHISHEK SHARMA

### TABLE TENNIS:

- AARYA SALVI
- CHAITYA GALA







THANK

YOU

