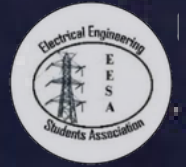




Pune Vidyarthi Griha's
College of Engineering and
Technology & G. K. Pate (Wani)
Institute of Management



Approved by AICTE, DTE (Code:6274) | Affiliated to SPPU, Pune | NAAC Second Cycle 'A' Grade

OHM

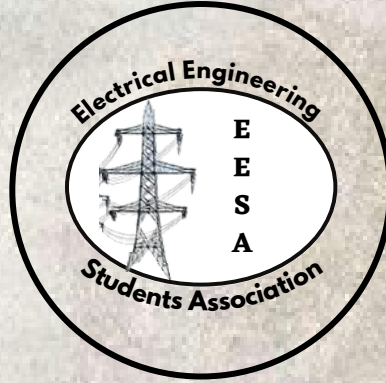
2022-23

रूपान्त

ELECTRICAL ENGINEERING STUDENTS' ASSOCIATION

DEPARTMENT OF ELECTRICAL ENGINEERING

"OHM 2023"



EESA PRESENTS

ऋणात्र

The Annual Souvenir of Electrical Engineering
Students' Association

DEPARTMENT
OF
ELECTRICAL ENGINEERING

Pune Vidyarthi Griha'S
College Of Engineering & Technology 44,
Vidyanagari, Parvati, Pune-411009

Schedule Form of Declaration

Title:

OHM 2022-23
EESA, PVG's COET & GKPIIM
Parvati, Pune - 09

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Magazine Secretary: Satvik Kushle
Jt. Magazine Secretary: Sakshi Mardhekar

Team Member: Prajakta Pandhare

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The Department of Electrical Engineering of PVG's COET & GKPIIM, Pune -09 as an institute accepts no responsibility for the opinions expressed and statements made by individual authors and the contents of advertisement.

(For private circulation only)

Electrical Engineering Students' Association

DEPARTMENT OF ELECTRICAL ENGINEERING

Pune Vidyarthi Griha's College of Engineering and Technology,
Vidyanagari, Parvati, Pune - 09

CORE COMMITTEE 2022-23

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Principal, PVG's COET

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H.O.D. Electrical Engg.

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Prof. P. G. Jamdade

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Jt. Cultural Secretary: Shruti Daroli

Sport Secretary: Rushikesh Bade

CR: Sakshi Paitwar

LR: Vaishnavi Shewale

MAGAZINE COMMITTEE 2022-23

Satvik Kushle
Magazine Secretary

Sakshi Mardhekar
Jt. Magazine Secretary

Team Member: Prajakta Pandhare

Cover Page Design: Pratik Kaldhone

Special Thanks to:
Prof. O. S. Pawaskar

HOD'S DESK



Prof. Dr. M. S. Thakare
(Head of Electrical Engineering Department).

With great pleasure I am presenting annual issue of Electrical Engineering Students' Association (EESA) Magazine 2022-23. Students have enthusiastically organized and participated in various curricular, co-curricular and extra-curricular activities through EESA. Various events were organized through EESA.

I appreciate efforts taken by complete EESA Committee for organizing various activities, such as, guest lectures, health checkup, maintaining EESA library and other activities throughout the year under the guidance EESA Staff Advisors Prof. DR. S. T. Gaikwad and Prof. P. G Jamdade.

I appreciate efforts taken by complete Magazine Committee for bringing out such a wonderful annual souvenir "OHM 23" with a beautiful cover page.

I heartily congratulate all students who have secured prizes in different activities and competitions.

I would like to mention here that our strength is our faculty, Faculty members are actively involved in various search and consultation activities. Many faculty members have been invited as experts by various organization delivering guest lectures.

I along with my team, am extremely thankful to our Principal, Dr. M. R. Tarambale, for his complete support and encouragement for all EESA activities.

At the end, express grand success to all students!



SECRETORIAL WORDS



Mrunal Patil
General Secretary



Aditya Nagargoge
Jt. General Secretary

We present in front of you the activities conducted by EESA for this academic year. Since the inauguration, EESA conducted various activities throughout the year.

Just like every year, EESA is going to publish Departmental magazine "OHM 2022-23" to enhance the technical and artistic skills of students. EESA organized various guest lectures & industrial visits for the students.

Along with the academic activities, EESA organized various non-technical activities as well. The events which includes Health Checkup, Blood Donation as well as games during college annual event.

We are thankful to Prof. Dr. S. T. Gaikwad and Prof. P. G. Jamdade for their support. We would also like to thank the entire EESA Committee for their dedication throughout the session

We would also like express our special thanks to Magazine Committee for bringing up such a wonderful magazine

At last, we have a line to say "The memories we've made throughout this journey are very special and we won't forget it till the end"



B. E. ELECTRICAL



BATCH: 2022-23

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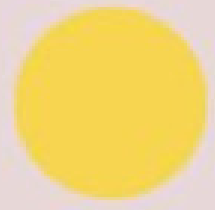
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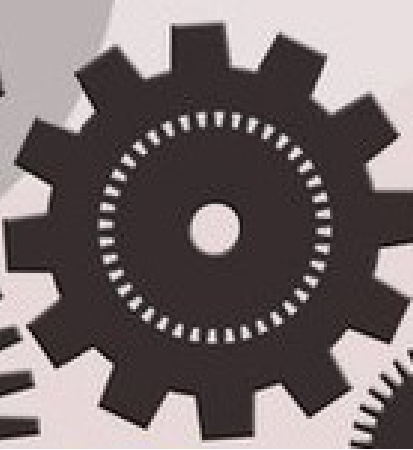
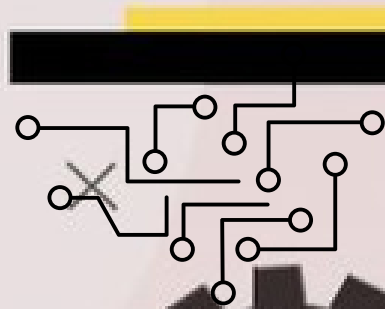
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DEPARTMENTAL ACTIVITIES



GUEST LECTURE ON ENERGY MANAGEMENT

The Electrical Engineering Department of our college organized a guest lecture on the topic “Energy Management” on 25th August 2023. All the students of TE and BE were a part of the programme.

In the session information about Medical Electronics and Instrumentation field for weather systems, Electrical Power, Radios, Thyristor and HVDC Transmission was given.

Students were also told about what they should focus on in life and what not to and to be very strong with the fundamentals in maths and engineering. They should keep up with the latest technology and innovations and come up with the solutions that are best suitable for the particular situations.

In the final part of the session speaker showed students and faculties the project of PLC he created for the purpose of explaining and recording all the parameters related to Electricity.



EV LAB INAUGURATION

The inauguration of EV and Robotics lab of our college was done by the hands of Padma Vibhushan Hon. Dr. Raghunath Mashelkar on 1st October 2022. After the inauguration Mashelkar gave audience guidance on the topic “GenNext Engineer”. Also Paintathalon event was inaugurated by sir which was held for 24hrs for the artist.

Ten girls from the Primary School Bhor sung the poem in their melodious voice from the book written by Dr. Mashelkar sir. He started his speech by telling about the journey of his life, about inauguration. His main part speech was focused on Gandhian engineering. He gave everyone his valuable advices from the lessons he learned from his journey.

Finally at the end of the event he gave 5 Mashelkar mantras which were:

- 1) Aspirations are your possibilities keep them high.
- 2) Like instant coffee there is no instant success
- 3) Winners are never quitters and quitters are never winners
- 4) When doors of opportunities, that you keep on knocking don't open, Create your own doors
- 5) On every morning whether you are 18 or 80, keep saying my best is yet to come and may be today is that day.



EESA INAUGURATION 2022-23

The inauguration ceremony of the Electrical Engineering Students Association (EESA) committee for the academic year 2022-23 was held on 13th October 2022. The event aimed to formally introduce the newly elected office bearers of EESA to the faculty members and students. Additionally, the event featured two distinguished guest speakers, Shri. Kashinath Deodhar and Mr. Ashutosh Parandkar, who shared their insights and experiences with the audience.

Magazine Cover Page Publication:

During the event, the magazine cover page was unveiled by the distinguished guests. The cover page showcased the theme and content of the magazine, symbolizing the start of a new academic year filled with knowledge, creativity, and accomplishments.

Felicitation and Cultural Performances:

The top rankers of the electrical department were felicitated by the guest speakers as a token of recognition for their outstanding academic achievements.

The event concluded on a vibrant note with mesmerizing cultural performances by our talented students.

The inauguration ceremony of the EESA Committee 2022-23 was a resounding success. The presence of esteemed guest speakers, Shri. Kashinath Deodhar and Mr. Ashutosh Parandkar, added great value to the event. Their enlightening speeches inspired the students to explore new avenues in defense technology and extracurricular activities. The unveiling of the magazine cover page symbolized the beginning of an intellectually stimulating academic year. The felicitation of the top rankers recognized their academic excellence, while the cultural performances added colour and vibrancy to the event. Overall, the inauguration of the EESA Committee served as an excellent platform to motivate and engage students in their academic and extracurricular pursuits.





PYTHON WORKSHOP

The python workshop for SE and TE Students of Electrical Department was held on 19th October 2023 by EESA. The purpose of this event was to give basic training on Python for the purpose of utilising it in the field of electrical engineering. Students gained practical knowledge about introduction to python libraries, functions and some basic programming. The event was coordinated by Parth Vaze and Shardul Karanjekar.



INDUSTRIAL VISIT

Industrial Visit for TE Electrical was held on 19th October 2023 at Avihass Equipments Pvt Ltd, Kondhawe-Dhawade. The visits were coordinated by Prof. U.B. Sarode and Dr. M.P. Bhawalkar. During the visit the students gained knowledge of various electrical machines, equipments and their maintainence.



ALUMNI MEET

The Electrical Engineering Students' Association (EESA) organized an Alumni Meet on 27th February 2023. The event aimed to foster connections and strengthen the bond between the college and its esteemed alumni.

The event continued with a captivating video presentation created by the EESA team. The video showcased the memories of alumni during their time at the college, highlighting their achievements and contributions to the college and department.

After the video presentation, engaging games were organized, involving both alumni and current students.

The Alumni Meet organized by the EESA was a tremendous success, bringing together alumni and current students in a meaningful and engaging manner. The event fostered connections, celebrated achievements, and provided a platform for mentorship and networking. The dedication and efforts of the organizers and the enthusiastic participation of alumni and students made the event a memorable and impactful experience for all. The Alumni Meet served as a reminder of the lasting bond between the college and its alumni, inspiring a spirit of unity, growth, and collaboration.



Visit at BGSW

on

International Women's Day

On 6th March 2023, BGSW (Bosch Global software solutions) invited top 5 rankers from TE Electrical on the occasion of International Womens Day. The students got opportunity to visit this company, their workstations, machine, and systems.

The visit was organized with prior permission and guidance of HOD Dr M.S. Thakare. An interesting interactive sessions, fur activities were arranged by BGSW management team to make that event interesting. The Purpose of arranging this event was, to get exposure of real working space in private sectors, to encourage each student who are present there and also acknowledging students about women empowerment. Lunch for students were provided with BGSW management team.



CAREER PROSPECTS IN ARMY

The event on “Career Prospects in Army” was held on 24th March 2023, the event was organized by EESA and NDLI club of PVG’s COET at the Conference Hall.

The guest gave presentation about the life in army and shared his experiences about it. . He shared his experience about his selection process and showed students various paths and opportunities in getting in the army. He concluded his presentation by his encouraging advice to the students for preparing for Exams, SSB and Interviews, and sharing his personal story about the challenges and satisfaction about the job.

The last part of the session was interactive one, students asked various questions, shared their personal experience about giving the exam, and the guest responded everyone by giving his advice and guidance. the event was a great success, giving the students present in the event an edge in preparing for their career in army as well as for exams.



IOT WORKSHOP

From 24th April 2023 to 26th April 2023, three days offline Workshop on “Arduino Programming and IOT using Node MCU ESP8266” was conducted. The Workshop was coordinated by Asst. Prof. Mrs. Radha Ranjekar in association with Dolphin Labs.

The workshop was based on Internet of Things, various outcomes of Internet of Things. The resource person for this event was Mr. Chittaranjan Mahajan of Dolphin Labs. Various application areas, societal benefits of using IOT were discussed by Sir.

On day 1 the students were taught about Arduino IDE and Arduino Programming. On Day 2 and Day 3 of workshop students were introduced to Node MCU Development Board and programming was done on Arduino IDE using ESP 8266 module. The workshop was a huge success and was appreciated by the participants.



HEALTH WORKSHOP

The health checkup event was held by EESA on 26th April 2023, at Conference Hall. The purpose of this event was to provide all the teaching and non-teaching staff of our college with an opportunity to access their overall health and receive guidance on how to maintain a healthy lifestyle.

The event was inaugurated by our Principal Dr. M R Tarambale. The event was free of cost for all the members. Upon arrival at the event, participants were asked to give basic information such as name and contact details. They were also asked if they had any current medications, or any health concerns. After completing the registration process, participants were directed to various health screening stations.

These stations included:

- Eye Checkup
- Body mass index (BMI) calculation
- Blood pressure measurement
- Blood glucose level measurement
- Pulse oximetry

Each station was manned by a qualified healthcare professional who conducted the health screening and provided guidance on how to maintain good health. Approximately 70-80 staff members attended the health check-up event. Overall, the health check-up event was a success. The members were able to access their overall health and receive guidance on how to maintain a healthy lifestyle. The event was well-organized and the healthcare professionals were knowledgeable and helpful.



Yashraj Jambhale from PVG's COET & GKPIIM was invited for the IMTEX 2023 under the 15th JAGRUTI IMTMA YOUTH PROGRAMME 21-22nd January 2023.

Venue: Bengaluru International Exhibition Centre

The 15th "JAGRUTI - IMTMA Youth Programme" gave me the opportunity to explore IMTEX 2023 and TOOLTECH 2023 in a more meaningful way. On the 21st and 22nd of January 2023, I explored the 20th edition of South and South East Asia's biggest exhibition on machine tool and manufacturing technologies at the Bangalore International Exhibition Centre (BIEC) in Bengaluru. Indian Machine Tool Manufacturing industry also contributes to 15% of the country's GDP.

The exhibition, took place over 77,000 square metres and hosted in five halls, featured more than 950 exhibitors from 23 countries. It showcased various products and solutions that provide quick and effective solutions for manufacturing problems.

IMTEX 2023 was an exhibition for the Indian metal cutting industry, displaying the latest advancements, trends, and improvements from India and other international participants. ToolTech was an event of great repute, offering a showcase of machine tool accessories, metrology and CAD/CAM cutting tools, tooling systems, and the latest trends in the tooling industry.

Visitors to the event were able to experience various sensors, robots, software and Cobots connected seamlessly throughout 'Digital Manufacturing'. Companies were able to acquire technologies that exceeded the capabilities of Industry 4.0.



The background is a soft, watercolor-style illustration of various green leaves and white flowers, possibly hydrangeas, scattered across a light green, textured surface. The colors range from pale mint to a deeper forest green, with delicate white petals and buds. The overall feel is fresh, natural, and serene.

ACHIEVEMENTS

SPORTS PARTICIPATION

Name	Class	Tournament – Month	Sports
Anurag Lad	TE	AIT PACE MIT – January 2022 University – November 2022	Badminton
Adityawardhan Sabnis	TE	University – January 2022	Basketball
Aditya Agarwal	TE	University – November 2022 Flames – January 2022 AISSMS – March 2022	Cricket
Harsh Deshpande	TE	University – November 2022	Cricket
Harsh Deshpande	TE	AISSMS – March 2022	Cricket
Uday Patil	TE	MIT – February 2022	Chess
Akshay Bade	BE	University – November 2022 Flames – January 2022 AISSMS – March 2022	Cricket

ACHIEVEMENTS

Name	Class	Category	Competition	Achievement
Omkar chavan	FE	Acting	Firodia Karandak – Jan 2023	Prize for Human Formation Event
Anurag Lad	TE	Sports	COEP ZEST	Semifinalists
Harsh Deshpande	TE	Sports	AISSMS IOIT Engineer's Cricket League	Runner up
Aditya Agarwal	TE	Sports	AISSMS IOIT Engineer's Cricket League	Runner up
Mahamada Mursal	TE	Acting	Vinodattam Karandak – 17th Sept 2022 Firodia Karandak – Jan 2023	Consultation Prize Prize for Human Formation Event

ACHIEVEMENTS

Name	Class	Category	Competition	Achievement
Mohit Kudagi	TE	Acting	Vinodattam Karandak - 17th Sept 2022 Firodia Karandak - Jan 2023	Consultation Prize Prize for Human Formation Event
Simran Bankar	TE	Acting	Vinodattam Karandak - 17th Sept 2022	Consultation Prize
Samruddhi Pawar	TE	Acting	Vinodattam Karandak - 17th Sept 2022 Firodia Karandak - Jan 2023	Consultation Prize Prize for Human Formation Event
Akshay Bade	BE	Sports	AISSMS IOIT Engineer's Cricket League	Runner up

ACHIEVEMENTS

Name	Class	Category	Competition	Achievement
Prajwal Mergal	BE	Acting	Vinodattam Karandak - 17th Sept 2022 Firodia Karandak - Jan 2023	Consultation Prize Prize for Human Formation Event
Akshay Badhe	BE	AISSMS state level tournament "Engineers Cricket League"		Won 2nd Prize. Also won Man of the Series Award.

ACHIEVEMENTS

Name	Class	Category	Competition	Achievement
Prajwal Mergal	BE	Acting	Vinodattam Karandak - 17th Sept 2022 Firodia Karandak - Jan 2023	Consultation Prize Prize for Human Formation Event
Vedang Kulkarni Narendra Dikole Yashraj Jambhale Jivan Pawar Devawallabh Kulkarni	BE	State level project competition, organized by AISSMS College of Engineering, Pune	Secured 3rd Rank	
Gaurav Patil Varad Ninal Hrithik Waje Kunal Marulkar	BE	National Level Competition (Pro-Electra) of Modern college of Engineering	"Development of Automated FC-TCR" of BE Electrical under the guidance of Bhawalkar sir	First Prize
Aditya Yeole Atharva Bharti Pranav Shinde	BE	International level Robotics Competition E yantra organized by IIT Bombay		Secured 4th Place. They competed with 370 teams at international level for their theme.

ACHIEVEMENTS

Name	Class	Category	Competition	Achievement
Parth Vaze	BE		<p>Completed Solar Energy Engineering MicroMaster's program on edX (offered by TU Delft)</p> <p>Received an admit from Chalmers University of Technology and was granted an IPOET scholarship consisting of a 75% tuition fee waiver .</p>	<p>Adjudged as the Best Outgoing Student from Department of Electrical Engineering at Samsara 2023</p>
Varun Talwalkar	BE	Clemson university USA	MS in Electrical Engineering with focus area of Energy Systems	

ACHIEVEMENTS

Name	Class	Achievement
Aman Usman Aga	SE	Got selected in India's biggest uniform wearing youth organisation that is in NCC
PRAJWAL SHARAD GAWHALE	SE	Circuit making competition
Bade Rushikesh Devidas	TE	College level Essay Competition(आजादी का अमृत महोत्सव)
PRAJWAL SHARAD GAWHALE	SE	Circuit making competition

SPORTS



NON-TECHNICAL SECTION



PO&TRY



Smile pure of a child, Faked by adults
Smile it hides many reasons behind it ,
Watching your crush dancing in rain enjoying
, Smile when someone lies and you now what truth is,
When the fake promises,
Smiles hide many tears,
Some smiles don't even know
how many hearts they have pierced,
Some smile in the shadows watching others enjoy,
But deep down they also deserve that enjoyment,
Some smile to not to worry their closed once
but end up crying because of closed ones,
Some smile just by smell of wet soil,
some smile on others loss in their life,
This smile hurts many, makes you love many...

-Adityawardhan Sabnis
TE Electrical



चंद्र

अंधारी ती रात्र लुकलुकणारे ते
तारे..
चौहीकडे फक्त शांतताच
मनात वाढलाचे वारे ..
शांत करावयाला हे वारे ती चंद्र
माझा टाक देई
पाहता पाहता मी चंद्राकडे त्याच्या
कुशीतच झोपी जाई..
- साक्षी मर्ढेकर
TE Electrical

उगाचचं

कशाचे हवे पुत्रावे कायम

तूची जाणीते तुलाच

तरी कशाला नकी ते जगाचे औझी

कशाला नकी त्या वेदना....

खरे जाणीते तुच

मग कशाला नकी ते विचार

उगाचच मनावर औझी कल्पनेचे

कशाला ?

कशाला ?

-साक्षी मर्ढेकर

TE Electrical

सौबती फौजीची

दूर नमतानाही तू आणि मी
कायम मनाने जवळचं नमतो

अश्रु झोपी जातात उशाशी

तेव्हा या काळ्याभौर रात्रीला तू

चंद्र बनून प्रकाश देत नमतो

तो चंद्र बाजूला माकून चांदणे

काळ्याभौर रात्रीचे दुःख पाहत नमतो

चंद्र येतो खिडकीतून बीलायला ,समजावयाला

आणि तिकडे काय व कशी नमेल अवस्था तुझी

हे विचार मात्र जाळून काढतात

तरीही दोघांमध्ये नमूनही अंतर

त्याग व तडजोड यांनी जपलयं

आपल्या सुखी संभाराला

त्याग आपले कोणी नमजू शकत नाही

एका फौजीची पत्नी हीण काय नमतं

हे प्रत्येक जण जाणू शकतं नाही

तू नमतानाही कर्तव्ये मी येथे पात्र पाडली

तू फौजी आहेस देशाचा

पण मी सुद्धा देशभक्ति निभावली

घर तयार होते भीतीचे तुझी अवस्था बघून

पण झाले मी शांत या अस्वस्थ मनाला नमजावून

प्रत्येक अश्रूना तुझापामून मी लपवलयं,

तुझामुळेच तर आज मला तुझी सौबती हीण्याच सौभाग्य मिळालयं

तुझामुळेच तर आज मला तुझी सौबती हीण्याच सौभाग्य मिळालयं....

-साक्षी मर्ढेकर

TE Electrical



SILENT TALKS

When in a pleasant morning the sunshine wrote
it's lines on my window,
I woke with a hope like singing birds on tree ropes.
The walls of my room shared
their part of story about me,
The heartbeat gave it's speech,
with passing breeze making feel more rich.
The mirror showed to accept myself with flaws I
had,
Also showing me my smile
which made even the fresh Rose look bad.
The unwritten pages showing me
that their is alot to write,
the written ones can't be corrected
and made attractive.
These silent talks made me realise
to be free as morning air pure as a waterfall .

-Adityawardhan Sabnis
TE Electrical

धरती

जननी थी वो स्वप्न की पत्र किन्तकी
उसकी आन थी
मीला जो जीवन मुफ्त में इनकी
किमत किन्तकी राग थी
उजाड़ दी थी धरती जिन्ने मन में
मुखता की बाग थी
प्रदूषित किया था प्रकृति की
शायद बुद्धि इनकी नाका थी जब
न जकड़ा जीवन देखो घड़ी ये आई
सर्वनाश की
जननी थी वो स्वप्न की
पत्र किन्तकी उसकी आन थी

- सात्वीक कुशले
TE Electrical

विकास

हरित श्रृंखला प्रज्ज्वलित सी धारा
विकास पग की एक नई कारा
विधान प्रवक्ता आज भी बैठे आगे बड़ेगा देश कैसे
युवा व्यक्ति है रक्त से ज्वलित निर्भयता से है जो रहित
सक्षमता से परिपूर्ण है विकास की धारा अर्थपूर्ण है
चलो हम भी करे भागीदारी पीछे ना रहे कोई भी नर-नारी
जन- कल्याण का एक ही नारा सुरक्षित रहे देश हमारा

- सात्वीक कुशले
TE Electrical

लेखन

लेखन स्वतंत्र हो तो
हर शब्द में ज्ञान होता है
प्रेम हे सिर्फ कवि ही नहीं प्रेरणा
देने वाला हर शक्स महान होता है,

- आत्वीक कुशले
TE Electrical

CITYLIGHTS

As moon rises from the dark,
streets light up from a spark,
Nature turns silent,
Horns start to bark.
The Moving cars with headlights on become an art,
Sea waves glowing up in moonlight,
Fountains in coloured,
People travelling some are tired,
some are depressed,
Some carrying their small small happiness,
to make their loved ones feel blessed.
Some are patrolling borders to
maintain peace and order,
Some are working to complete their deadline,
And some are trying to find the equation of line.
Photographers from their windows
try to capture this beautiful momento,
Some artist are setting up to
create a blissful work.

-Adityawardhan Sabnis
TE Electrical



PAY TO CRY

Deep in jungle , high on mountains
There was a face In that peaceful place Face.....
crying by eyes Smiling by heart
He remembered The day he born
He was crying His parent's where Smiling
He payed his cry For his parent's Smilies
The day he went to school All class was laughing At him
Because he was crying
The day she left He was crying For her
She was happy to leave him
The day he got married Bride was crying
He was happy He got married
The day he became father His son was crying
He was happy By looking at him
The day he got divorce
He was crying His wife was satisfied
The day he was sitting there
He was crying For no reason
He realized..
He payed every smile Of people surrounding him
By his cry
People surrounding him Payed his smile
By their cry
They said Nothing is free You have to pay
Pay to smile Pay to cry
Even if It means Other smile or cry
Mostly for your No Matter you cry or smile
He payed Every dept Of cry in his life
But now He was Smiling And crying too
His eyes were paying To make his heart smile
He said to his son That you will... Cry or smile in your life
Just don't forget to know Who paid that for.....
If you are smiling somewhere Someone is crying somewhere

**-Mahesh mustapure
S.E Electrical**

Talk about dead one

A boy was passing Road attached To grave yard
He saw some people passing by
They were holding Flowers in their hand For someone in the grave
Boy thought It's was similar
Just like de ja bu
He always used to see People going there
Having Flowers with them
That kid asked his mom Why people go their If that place makes them cry
Do They like to cry ? I don't like to cry
Mom replied It's possible you don't like To cry
But there will be some people Who will cry for you
Not in your presence But in your absence
When you will be gone Somewhere from where
You are not going to come Or you may will come back
Come back In their dream Or perhaps memories
Those people willing to see you
But when you comes to see them They will Cry ,
Dying is painful Than death People dies in minutes
But those who remain behind Die day by day In memories of who died
Kid ' if that's the case ' I am not going to let someone cry For me
I don't like to see people cry Either
Mom smiled She said No. Matter you want or don't
People will come in your life
Who will cry for you
A normal person Born as a baby in hospital
Played as kid Lived as young man Married to fine women
Had children's , job Happy life And then...
Died as a man in hospital It's all where you come In the end
You found so many people Between your journey From life to death
Those who cry for you Are no one but your partners In your journey
So it's good to have them Even sometimes It's good to cry for someone
It's proves your love to them Or their love to you as well
Kid was listening He wasn't getting all the things

**-Mahesh Mustapure
S.E Electrical**

स्वातंत्र्याची ७५ वर्षे

एकच तारा समोर, प्राणिक पायनकी अंगर
गर्जा जयजयकार कॉलीचा गर्जा जयजयकार।"

कवी कुसुमाग्रज यांनी केलेल्या या आवाहनाचे सार्थक होण्यास ३५ ऑगस्ट १९४७ चा दिवस उजाउला पक्षी पिंजयातून उडाला. स्वातंत्र्याची राग्य प्रभात माली, असंख्य बलिदानांचे सार्थक आले आणि भारताला पारतंत्र्यातून मुक्तता मिळून स्वातंत्र्य मिळाले. बघता बघता स्वातंत्र्याचा प्रवास ७५ वर्षांचा होत आहे. आज आपण भारतीय स्वातंत्र्याचा अमृत महोत्सव साजरा करीत आहोत. एखादया वादाच्या जीवनात ७५ वर्षांचा कालखंड हा

जरी फार मोठा टप्पा नसला तरी, राष्ट्रातील नागरिकांच्या जीवतात. ७५ वर्षे आहे. पूर्ण करणे अनन्यसाधारण महत्त्वाचे स्वातंत्र्याच्या अमृत महोत्सवात आपली स्वातंत्र्याविषयी कोणती स्वाने होती? स्वातंत्र्यातून आपल्या कोणत्या अपेक्षा होत्या? आज 'सत्य' काय आहे? कुठे होतो आपण आणि आता कुठे आहोत? उणिवा काय राहिल्या आणि आता भविष्यात कशी पावले आलावी लागतील? याचा विचार आपल्याला करावा लागेल. स्वातंत्र्याच्या अमृत महोत्सवाच्या कालावधीपर्यंत आपण काय कमावल आणि काय गमावलं? याचे सिंहावलोकन करायाच्या टपयावर आपण येऊन पोचलो आहोत भारत हा नैसर्गिक लाहान संपत्ती आणि खनिज समृद्ध देश आहे. माथी हिमालय उमा आहे, पाय सागराच्या लाटा भोळण घालत आहेत. देशातून गंगा गोदावरी, ब्रह्मपुत्रा सारख्या रक्त वाहिन्या, आहेत. निजात पक्षी आकाशी भरारी वाहतू भारतो आहे. सैनिक आणि जवान कोळशात तेज घालून देशाची सीमा रक्षण करताहेत. किसान लोकराजा बनला आहे. आपल्या देशाला शिमला, कुनू, मनाली तसेच भारताच्या सर्वत्र भागात नैसर्गिक त्याप्रमाणे मानवनिर्मित समृद्ध पर्यटन स्थळे लाभली आहेत. एकूणच आपला भारत देश 'सुजलाम सुफलाम आपल्या देशाला पौराणिक आणि ऐतिहासिक संस्कृतीचा वारसा लाभला जातो, धर्माचे, सापांचे लोक येथे गुण्यागोविंदाने एकत्र नांदत आहेत.

संत ज्ञानेश्वर, संत तुकाराम, संत कबीर यांसारख्या, भोर संताची भूमी असलेल्या आपल्या देशाची आज जागतिक पातळीवर सर्वश्रेष्ठ संस्कृती मानली जाते. एकाच वेळ अध्यात्मात आणि 10 अनेक खेळ विज्ञानातही अग्रेसर होत आहे. प्रकारात भारताने जागतिक बाजाची कामगिरी स्वातंत्र्याच्या

केली आहे. अमृत महोत्सवात गेली ७५ वर्षे साहित्य, कला, क्रिडा, संस्कृती या क्षेत्रामध्ये नामवंत लेखक साहित्यिक व कलावतांनी आपला अमीट ठसा उमटवला आहे. पण असे असले तरी एकीकडे प्राली ले आहे आणि दुसरीकडे अनेक गोष्टी झपल 3-4/5 वेदना देत आहेत. स्वातंत्र्यासाठी अनेक वीरानी ऐन तारुण्यात बलिदान दिले. आपले संपूर्ण आयुष्य स्वातंत्र्यासाठी व मुझे स्वातंत्र्यासाठी त्यांनी रक्ताचा सडा सोडला.

पण आम्ही मात्र रक्ताचा घाऊक बाजार मांडला. असं कधीकधी उगाचच वाटते. आज चीन- पाकिस्तान सारख्या परकीय शक्ती सीमेवर आक्रमणाच्या तयारीत असतात देशामध्ये दहशतवादी हल्ले होतात बुरी, सारख्या रक्ताळलेल्या भाठवणी पुलवामा आपल्याला दुः ख देतात. या देशातल्या शेतकऱ्याला आपल्या हक्कांसाठी आंदोलन करावे लागते. अनेक गरिबांना एक वेळचे जेवण सुद्धा मिळत नाही. स्वर्गासारखा कायमीर मुलांबाच्या सुगंधाने दरवळत राहण्याऐवजी वक्ताले रंगताना पाहायला मिळतो. धर्माच्या नावावरून जातीय दंगली होतात, तेव्हा स्वातंत्र्याच्या टिकर, या ठिकर उडतात. भारत मातेच्या हृदयाचे शेकडो तुकडे होतात. एकाच आईची लेकरे एकमेकांच्या रक्तासाठी तहानलेले असतील तर त्या आईची काय अवस्था होत असेल? या सान्या आक्रमणांमध्ये अतिशय सामान्य माणूस भरडला जातो. जळणारी झोपडी करपणारे एके, मात्र भारतीयच आहे हे आपण विसरतो आहोत? हा खरा प्रश्न स्वातंत्र्याच्या अमृत महोत्सवात आपल्याला एक गोष्ट मात्यच करावी लयोन की भारतीय स्वातंत्र्याने आपल्याला खूप काही दिले आहे. परंतु जी असमाधानाचा असंतोषाचा सूर निश्चत आहे. त्याला आपणच सर्वस्व जबाबदार आहोत. आपली आर्थिक, सांस्कृतिक, भौयो प्रगती साली. पण नैतिक मूल्यांचा हास होतच गेला. म्हणूनच एकीकडे आपण वैज्ञानिक प्रगतीच्या भागाने अपाख्याने परिवर्तन करीत आहोत. परंतु त्याच वेळी दुसन्या बाजूने वेगाने वाढणाऱ्या भौतिक व विळख्यात खास अभौतिक समस्यांच्या दृष्ट आपण अडकल्याने स्वातंत्र्याचा गुदमरतोय अशी अवस्था झाली. याचे निराकरण करण्यासाठी देशाशी संबंधित "प्रथम देश, कायम प्रथम" या उक्तीबा अवलंब करणे योग्य असेल. 'भारत मातेच्या ७५ वर्षपूर्तीच्या बदल भारत सरकारकडून हा अमूल महोत्सव न भूतो न भविष्यती' करण्यासाठी 'आज़ादी का अमृत महोत्सव ही संकल्पना राबवण्यात येत आहे. यासाठी जनतेचा उत्स्फूर्त सहभाग असणे गरजेचे आहे आणि लौ मिळेलही यात बांका नाही.

“शेवटी एवढेच म्हणेन, सदैव फडकत राहो निरंमा आपुला..

सर्व जगात देश आपुला प्रिय देश आपुला.. “

ENGINEERING CONCEPTS IN THE ANCIENT INDIAN ARCHITECTURE

The Indian Vedas and other ancient Indian literature have contributed greatly to the development of engineering, technology and science. The article contains ample evidence that there were innovative scientific methods and technical concepts, demonstrating the greatness of the Rishis who we believe to be true engineers. Being the Engineers of our country, we should know about the rich and vast scientific heritage of our Ancient Literature.

A shloka from a scripture gently states that the Indian Vedas are full of knowledge and most of the concepts of modern subjects were already present in the Vedas.

स सर्वोऽभिहितो वेदे सर्वज्ञानमयो हि सः । (मनू स्मृती २.७)

Means the 'Sutras of Knowledge' concerning all arts, engineering and sciences (social life, politics, economics, medicine, etc.) are present in the Indian Vedas.

All Vedas declare that energy is universal and omnipresent and has the power of transmission. [Yajurveda: 15.33-34].

Maharshi Bhardwaj is the world's first scientist. Three of his inventions are mentioned in Rigveda, Yajurveda, and Atharvaveda.

1. He explained the fire production by friction.

त्वामग्ने पुष्करादघ्नथर्वा निरमन्थत । {Yajurveda:11.32}.

Fire was produced by friction of two stones [Rigveda: 2.12.3].

2. He produced Hydroelectric, Hydel from waters of a Pond through friction.

[Rigveda:6.16.13] [Yajurveda: 11.32][Samveda: 9].

3. He produced Oil and Natural Gas from the inner Earth and Ocean through excavation. [Yajurveda: 11.32; 11.28; 11.29; 11.31]

There are many Sanskrit books dealing with engineering and technologies like Yantra Sarvaswa, Samarangana Sutradhara, Tantra Pradipika, Shilpatantra Rahasya, Yukti Kalpataru etc.

Several books on other sciences such as Artha Shastra, Rasa Shastra, Ganita Shastra, Vastu Tantra and Sthapatya Shastra also contain technical sections.

- **AIRCRAFTS**

There is an article “Aircrafts in ancient India” written by P. H. Thatte and published in Vedic Magazine Gurukul Samachar, Lahore, Vol.21, No.7, Dec.1923. The article mostly deals with information in Agastya Samhita. Maharshi Agasti has mentioned some interesting aspects about the aircrafts mentioned below:

व्योमयानं विमानं स्यादग्नियानं तदेवहि । {अगस्त संहिता}

Vimanas are given many names in the Agastya Samhita. Thus, this vehicle seems to have been common during the Agastya period.

**लघुयत्सुघटं काष्ठं कोमलं ब्रह्मजाति तद ।
विमानो सर्वदा ग्राह्यं लघुत्वादुत्तमं स्मृतं ॥{अगस्त संहिता}**

The wood used in the construction of these vehicles used to be top class with properties such as light in weight, flexible and easy to work (soft). The lighter it was better.

- **IRON PILLAR OF DELHI**

Another very interesting piece from this field is the Iron Pillar of Delhi, which does not rust at all. The pillar is said to have been built by ‘King Chandra’, possibly Chandragupta II and now stands in the Qutub complex at Mehrauli in Delhi. R. Balasubramaniam of IIT Kanpur explains that the column’s corrosion resistance is due to a passive protective film at the iron-rust interface.

- **ZINC BY DISTILLATION PROCESS**

The next important technology of ancient India is that India was the first to smelt zinc by the distillation process. Zinc is the metal responsible for the innovation of silverware and gold coins. Since zinc has a low boiling point, Pure Zinc could be produced only after the mastery of distillation techniques which have been described in our ancient chemical treatise. The mines of Rajasthan have given definite evidence of Zinc production going back to 6th Century BC. Therefore, it is no exaggeration to say that the distillation process was not applied until the 12th century AD. India was the first to produce zinc by the distillation process.

There is much such evidence mentioned in our ancient Indian texts that can paint a picture of how admirable our technology was before we entered the ‘Macaulay education system.’ The ancient texts contain a wealth of hidden knowledge and have elevated the status of learning to such an extent that they could produce high class engineers, and above all, responsible citizens who would better serve the nation. Every citizen of India is responsible for deciphering them and letting the world know that Bharat was, and always will be, in "**The Vishwaguru's position.**"

IS STOCK MARKET RISKY

Hello Readers,

We are always fascinated by the stock market from our childhood, some people get interested in teenage but never dared to do research or enter it because, we always have been told that the Stock Market is gambling, or it is very risky. But no one had an interest in finding out the truth. Also in our surroundings there is hardly anyone who can tell you what is stock market and how it works, but now because of the revolution in the telecom sector the internet got very cheap and

everyone has a decent amount of internet availability, so we also have used this internet for many useful things like education and entertainment purpose and to gain some skill. We know how much the power of the internet is because we are the GenZ. We have been experiencing the internet form more than half of our age.

So, even after having an interest and the internet, we are afraid to search on the internet 'what is stock market', That is because people will tell you about any person had lost his money in the stock market' but no one wants to discuss about what wrong went in his story. for example: how does he buy the share, is he checked the fundamental of the stock, or is he only trading by watching the news or on basis of tips.

Let's talk about the risk management in the stock market in short.

Risk is the possibility or chance of loss:

From this statement, you get what is a risk and there is always risk present in every activity you perform in your daily life. For example, you came to college with your bike, now there is a possibility of a small or big accident but even

knowing the risk you came to college because you have confidence in yourself which is not developed in one day but it is because of you know that you learned the bike and had an experience of riding it much time. In the same way, if I told you that there is a risk in the stock market but by managing it properly you can invest with zero risk in a stock market yes you heard it correctly, I said, "ZERO RISK". Again, how that is possible I will give you a small task it is quite simple and easy to perform which will bring out maximum doubts from your mind and may change your way toward the stock market.

Task:

1. Take one coin of 1 or 2 rupees and take one paper and pen and flip it ten times. Now, whenever you flip the coin if the head comes to write +3000 on paper and when the tail comes to write -1000 on paper.
2. As you know that the probability of a head or tail is 50-50 in a single flip and if you had a winning ratio of 30%, that is from 10 flips head comes only 3 times you will make +9000, and the remaining 7 times you get tail then -7000 if you do the simple maths between $[(+9000) + (-7000)]$ then net values come +2000. or
3. In your case, if you have a winning ratio of more than 30% then your net amount will be even more.

Now tell me in the above example where is risk present? It is just a simple game of probability in which if you get the tail then you are going to lose one thousand rupees and if the head comes then you will make three thousand rupees. Like the above example, the stock market is somewhat game of Probability with the addition of fundamental analysis and technical analysis. and you know the average winning percent required in the stock market to make money is between 49% to 52% only. when you want to enter the stock market you check the risk and plan your task accordingly, and then your risk gets automatically eliminated.

If you ask a question to the Professional Investor or Trader about what is important while coming into the stock market the answer will come “Firstly you have to define Risk and then select Stock accordingly”. If you know how “RISK MANAGEMENT” is done and with the use of Proven Strategies (examples: Support and Resistance, Price action, etc) you can make decent money in the Stock market. Also with Risk management, Discipline is particularly important but will touch on this point in other articles. This article was especially for RISK.

“RISK COMES FROM NOT KNOWING WHAT YOU ARE DOING”

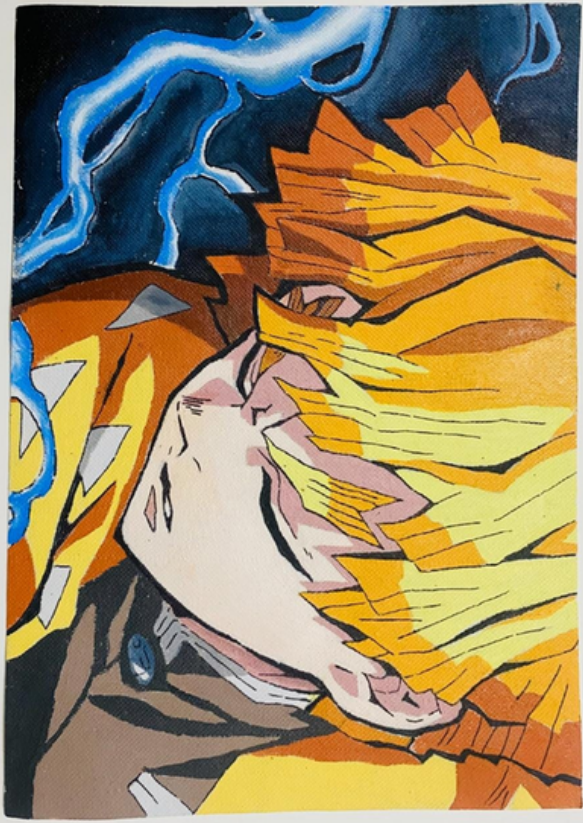
-Warren Buffett (Successful investor)

In the end, I want you to question yourself “IS THE STOCK MARKET RISKY?”

HRUTVIK NIMBOLKAR
BE Electrical



ARTISTRY



**-VIRAJ SAWANT
SE ELECTRICAL**

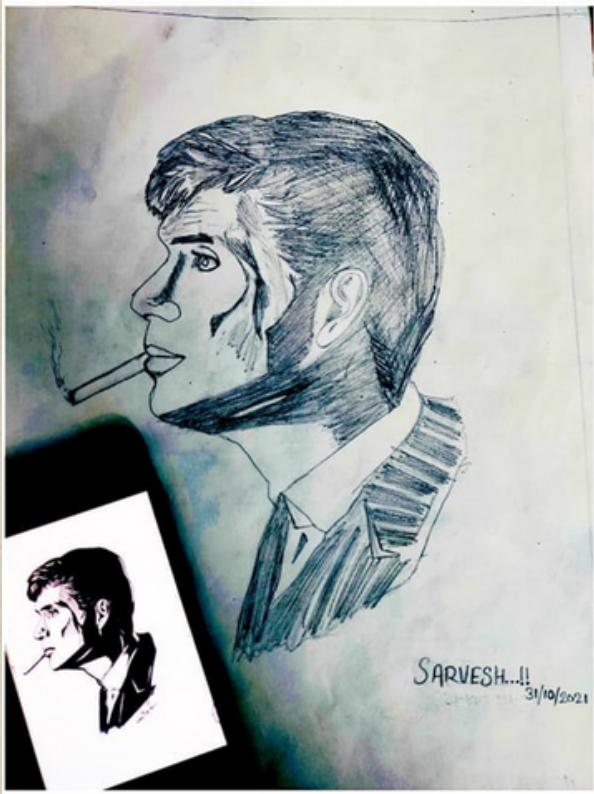


**HARSH DESHPANDE
TE ELECTRICAL**

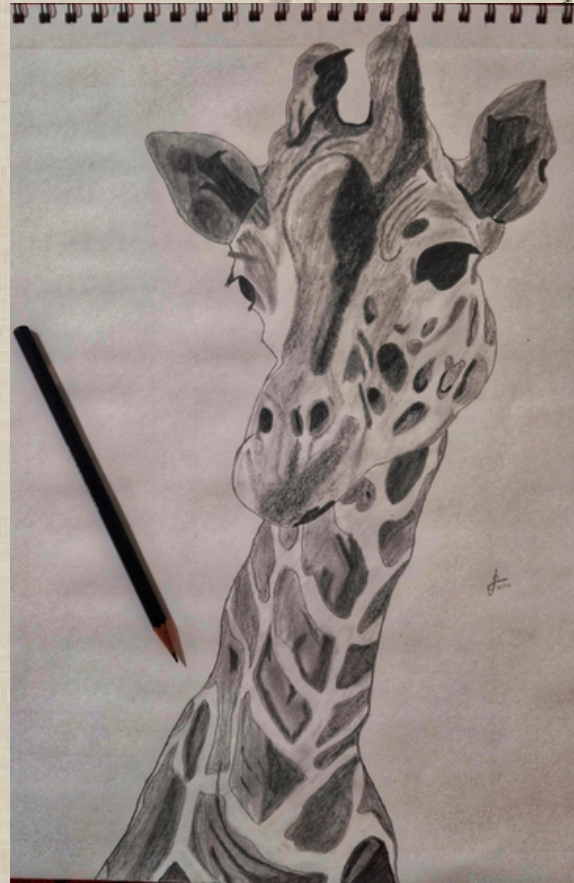


**TANISH DHAGE
SE ELECTRICAL**





SARVESH TILEKAR
TE ELECTRICAL



SARTHAK SUTAR
FE Electrical

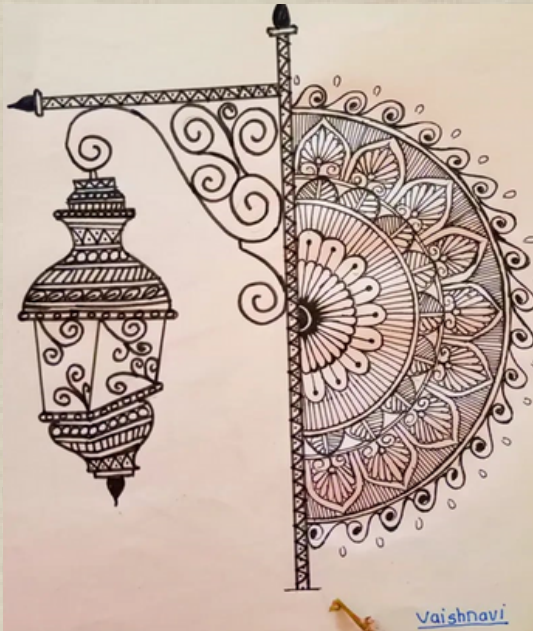


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TE ELECTRICAL

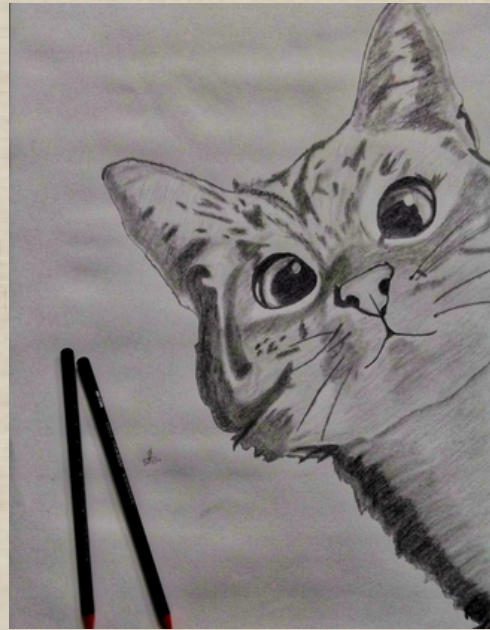


ABHIJIT BHADANE
TE ELECTRICAL

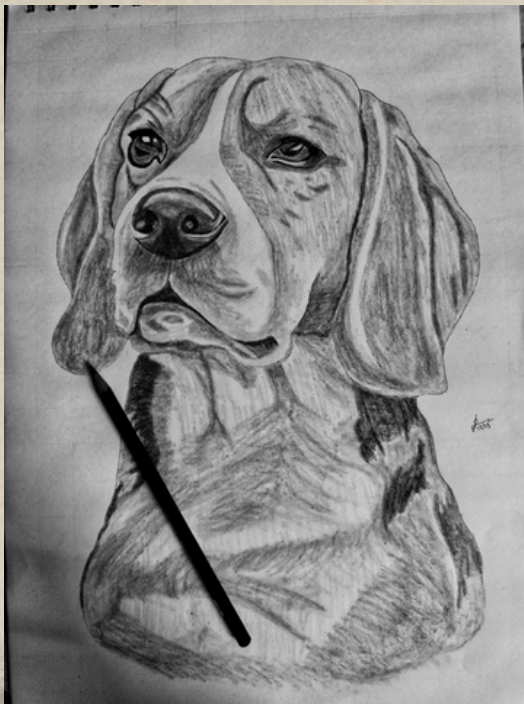




VAISHNAVI SHEWALE
TE Electrical



SARTHAK SUTAR
FE Electrical

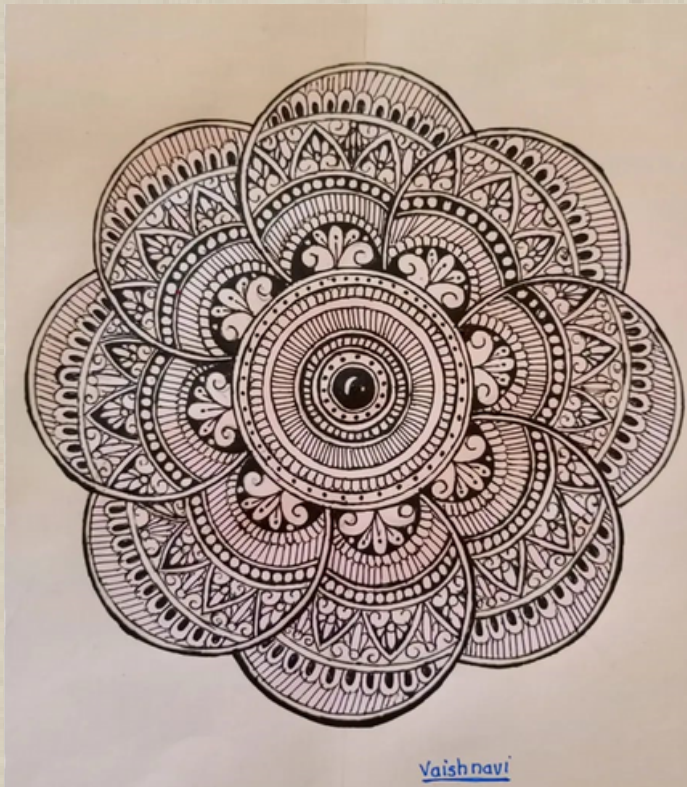


SARTHAK SUTAR
FE Electrical



SAKSHI MARDHEKAR
TE ELECTRICAL





VAISHNAVI SHEWALE
TE Electrical



SARVESH TILEKAR
TE ELECTRICAL



SATVIK KUSHLE
TE Electrical



HARSH DESHPANDE
TE ELECTRICAL





MANALI NANDANE
SE Electrical



MANALI NANDANE
SE Electrical





**PRAJAKTA PANDHARE
TE ELECTRICAL**

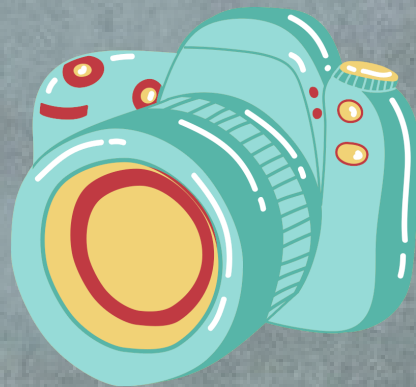


**PRAJAKTA PANDHARE
TE ELECTRICAL**



**PRAJAKTA PANDHARE
TE ELECTRICAL**

PHOTOGRAPHY





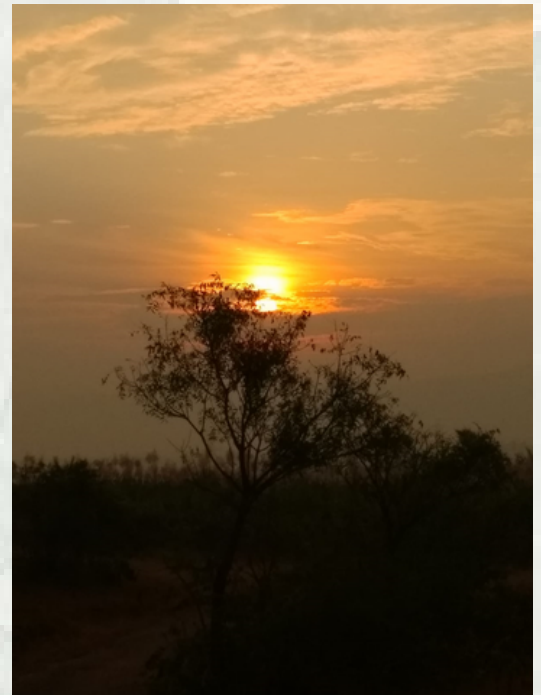
PRACHI GARUD



**YAYATIRAJ BAWASKAR
SE ELECTRICAL**



**SHRIRAJ SONAWANE
TE ELECTRICAL**



PRACHI GARUD



**SHRIRAJ SONAWANE
TE ELECTRICAL**



**YAYATIRAJ BAWASKAR
SE ELECTRICAL**



**YAYATIRAJ BAWASKAR
SE ELECTRICAL**

STAFF ADVISOR'S WORDS



Prof. Dr. S. T. Gaikwad



Prof. P. G. Jamdade

We are proud to present the 29th issue of the annual magazine of EESA "OHM 2022-23". The annual magazine gives a platform for the students to express their hidden talents. Ohm reflects artistic minds of young engineers.

This year EESA was inaugurated on 13th October 2022 at the hands of Mr. Kashinath Deodhar and Mr. Ashutosh Parandkar. However EESA activities started informally before the inauguration function. After inauguration EESA committee started the activities very enthusiastically. There were many cultural program and presentations arranged by EESA for the students.

EESA had also organized industrial visits of various classes to industries in Maharashtra State for various academics subjects. These visits helped the students to keep pace with theoretical knowledge and practical implementation.

The success of issue of OHM 2022-23 is due to hard work & dedicated efforts taken by the magazine committee entire EESA team & the students of Magazine Committee. We are thankful to them showing interest in this effort of perfect merging of engineering and artistic skills.

We are thankful to Prof. Dr. M.S. Thakare, Head of Department Electrical Engineering for his inputs and guidance. I would also like to thank teaching & non-teaching staff members for their support.

We also thank Dr. M. R. Tarambale Principal PVG's COET for his valuable guidance and support.



