



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S



PRIYADARSHINI COLLEGE OF ENGINEERING

E-POWER

• *EXPERIENCE THE POWER OF PROFESSIONALISM.*

ACADEMIC SESSION 2022-2023

E-POWER 2022-23



Message from Principal Sir

Writing a message for our popular Magazine E-POWER gives me great pleasure. The magazine E-POWER from the Department of Electrical Engineering invites a wider readership in the Institute.

The caliber of students and teachers determines an institute's name and stardom. This Magazine is a result of our student efforts and creativity.

I congratulate all the contributors and the editorial board for accentuate such an engrossing and wonderful magazine. I am sure that students and faculty will enjoy reading this magazine.

Our Institute has the exemption to have healthy and harmonious ambience and the commendation goes to our nonpareil College Management. I take this opportunity to express my sincere gratitude towards Management to stimulate us and providing us platform for freedom of expression.

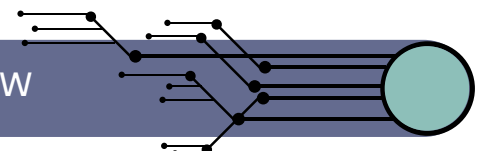
Opportunities are waiting for you. Just nail every one of them.

With best wishes and endorsement for the upcoming Session.

Principal
Dr. S. A. Dhale

If your action inspires others to dream, learn, do, and become more, you are a leader."
-John Quincy Adams

Rise and Shine, Your Time is Now



E-POWER 2022-23



Message from Vice-Principal Sir



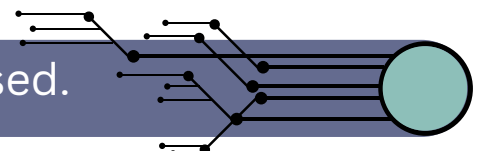
I am very blissful to speak to you through this Magazine as Electrical Engineering, Priyadarshini College of Engineering blow the lid off annual department magazine "E-POWER" for academic year 2022-2023. Publishing a magazine is indeed and herculean task.

In recent years, when our students are concerned more about their academic excellence, they have to be coaxed, persuaded and encouraged to exhibit their writing talents. The Editorial board has completed its responsibility neatly and systematically, besides of course, editing the entire annual magazine.

I congratulate the members of the Editorial board for their tireless endeavour. I also send my warm congratulations to all our budding talents who have generously contributed to this annual magazine.

Vice-Principal
Dr. G.M. Asutkar

Dream Big, Work Hard, Stay Focused.



E-POWER 2022-23



Message from

Head Of Department



The only person you are destined to become is the person you decide to be. Go confidently in the direction of your dreams. "Live the life you have imagined." First have a determinate, comprehensible practical idea, an ambition, an objective. Second have the necessary means to procure your ends; wisdom, money, statistics, and methods. Third, adjust all your means to that end.

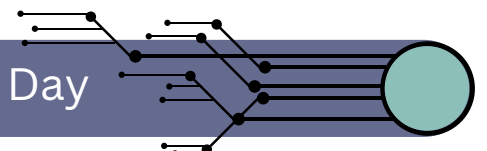
The will to win, the desire to succeed, the urge to reach full potential... are the keys that will unlock the door to personal excellence. We know what we are, but know not what we may be.

"E-POWER" 2022-2023 makes us realize our Students' knack, and their backbreaking work for this magazine. My heartfelt congratulations to the team for their astounding efforts in bringing out our Electrical Department Magazine "E-POWER",

"There is nothing impossible to them who will try." Your passion for success has no end. All the Best wishes for your future endeavours.

Head of the Department
Electrical Engineering
Dr. R. A. Keswani

Embrace the Challenge, Conquer the Day





Editors

Desk

It is a proud moment for us to present the departmental magazine "**E-POWER**"

This year has been full of pursuit by students in academics, Co-Curricular and extracurricular. This year our department of Electrical Engineering brings out a substantial magazine appositely named as "**E-POWER**". The purpose of the magazine is to provide a platform for the students to manifest their original activity and thoughts and thus it is a paramount aspect of developing their personality.

We would like to place our special thanks to all those who have contributed to making this effort successful.

Our heartfelt thanks to Dr. S. A. Dhale, Principal (PCE) for his guidance which enabled us to bring out this magazine "**E-POWER**".

Last but not least we are thankful to all the students who have sent their articles and readers who made this magazine so fascinating and admired.

Chief Editor

Dr. S. N. Dhurvey

Prof. A.A. Deosant



PRIYASARSHINI COLLEGE OF ENGINEERING, NAGPUR

VISION

To become one of the India's leading Engineering institutes in both education and research. We are committed to provide quality and state-of-the-art technical education to our students, so that they become technologically superior and in turn contribute for creating a great society.

MISSION

We commit ourselves to the pursuit of excellence in technical education and promise to uphold the spirit of professionalism to serve the humanity.

DEPARTMENT OF ELECTRICAL ENGINEERING

VISION

To become a center of excellence and to develop technically competent and socially responsible technocrats with high moral values in the field of electrical engineering.

MISSION

- To produce technically sound and innovative technocrats in the field of electrical engineering.
- To generate quality human resource for industry or to be self employed.
- To develop competent technocrats with high moral and ethical values to fulfill the expectations of society.

PROGRAM EDUCATIONAL OBJECTIVES

PEO-1: Our graduates will work on operations and practice in Electrical Engineering and Technology applications.

PEO-2: Our graduates will practice profession with an understanding of ethical, moral and social responsibilities.

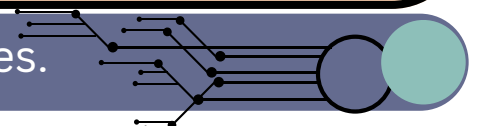
PEO-3: Our graduates will cope up with constantly evolving technologies through life long learning.

PROGRAM SPECIFIC OUTCOMES

PSO-1: To provide technical solution for the problems faced in electrical and allied engineering industries.

PSO-2: To develop electrical system keeping in view energy efficiency practices.

Turn Obstacles into Stepping Stones.



Media Speaks



लोकमत

सागर साखरे यांची निवड

लाखनी : येथील सागर सुरेश साखरे यांची जपानच्या मुख्य प्रशिक्षकपदी निवड झाली आहे. हे भारतातील प्रथम व्यक्ती आहेत ज्यांची या पदी निवड झाली आहे. नुकतीच मुंबई येथे झालेल्या आंतरराष्ट्रीय बुद्धिबळ स्पर्धेत त्यांची भारताचे प्रशिक्षक म्हणून निवड झाली व आता त्यांना जपान येथे जपानची राष्ट्रीय बुद्धिबळ संस्थेच्या अध्यक्ष मिथोको वटाई यांनी तेथील मुख्य प्रशिक्षकपदी नियुक्त केले आहे.

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लोकमत

सागर साखरे

भंडारा : सीनियर नॅशनल आर्बिटर

सागर साखरे यांना 'फेअर प्ले स्पेसिएलिस्ट' या प्रतिष्ठेच्या पदवीने पुणे येथे गौरविण्यात आले. ऑल इंडिया चेंस फेडरेशन व फेअर प्ले कमिशन यांच्या संयुक्त विद्यमाने पुणे येथे एम.एस. गोपाकुमार यांच्या मार्गदर्शनाखाली फेअर प्ले ओरिएंटेशन सेमिनार घेण्यात आले होते. यात लाखनी येथील सागर साखरे यांनी सहभाग घेतला. उत्कृष्ट कार्य केल्यामुळे त्यांना 'फेअर प्ले स्पेसिएलिस्ट' म्हणजेच 'अंटी चिटिंग आर्बिटर' या पदवीने गौरविण्यात आले.

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लोकमत

राज्यस्तरीय पंच प्रशिक्षणात सागर साखरे यांची भरारी

लोकमत न्यूज नेटवर्क
भंडारा : महाराष्ट्र धनुर्विद्या संघटनेच्या वतीने अमरावती येथे राज्यस्तरीय पंच प्रशिक्षण तसेच परीक्षा घेण्यात आली. त्यामध्ये लाखनी येथील सागर साखरे यांची भंडारा जिल्ह्यातून निवड करण्यात आली होती. त्यांनी उत्कृष्टरित्या ते प्रशिक्षण केले व परीक्षेतही उत्तीर्ण झाले.

सागरने आपल्या या यशाचे श्रेय आई-वडील, मार्गदर्शक व तसेच जिल्हा धनुर्विद्या संघटनेचे सचिव आशिक चुटे यांना दिले आहे. यशाबद्दल भंडारा जिल्हा धनुर्विद्या संघटनेचे सचिव आशिक चुटे, एकविध क्रीडा संघटनेचे अध्यक्ष सूर्यकांत इलमे, सचिव प्रकाश सिंग, सुनील कुरंजेकर, शाम देशमुख, श्यामू बांते, राजेंद्र भांडारकर, निशिकांत इलमे आदींनी कौतुक केले.

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Student Achievements



Mr. Tejas Dhawas

Sport - kabaddi
Participated in - krida mahotsav 2022
Organizer - Dr. Babasaheb Ambedkar marathvada university Aurangabad



**Departmental Sports Achievement
SPARK SPORTS-2023**

Winner in LBHM
INTERNATIONAL FIDE
RATED CHESS
Tournament



Mr. Sagar Sakhare
selected as Judge for Archery



Sagar Sakhare has been honored with the title of 'Fear Play Specialist' in Pune, achieving prestigious recognition. Under the guidance of M.S. Gopakumar in Pune, during the Fear Play Orientation Seminar organized by the All India Chess Federation and the Fear Play Commission, **Sagar Sakhare** actively participated. Due to his outstanding contributions, he has been acclaimed as a 'Fear Play Specialist' or, in other words, an 'Anti-Cheating Arbiter'.

Forum Installation



Office bearers of VIDYUT

Installation of Student Forum “**VIDYUT The Spark.....**”

11th November 2022

PCE Seminar Hall

Forum Incharge: Dr.Sonalee Dhurvey

The objective of the Forum is to enhance students' Curricular and co-curricular activities, which increase individuals' confidence and allow them to affect their personal life and development.



Dignitaries: Dr. S.A. Dhale, Principal
& Dr. P.R. Rothe Registrar, PCE,
Nagpur.



SEEM Installation



Official Professional Body with the dignitaries

“Society of Energy Engineers and Managers (SEEM) Student Chapter Installation”

Student Chapter Installation

15th-April 2023,

AryaBhatt Hall, PCE, Nagpur

Chief Guest: Dr. M.K.Khedkar

Faculty Incharge: Dr. Sonalee Dhurvey



Objective:

- To engage and deliver networking and skill development opportunities to its members, by organizing training programs, workshops, etc.
- Encourage and assist in the implementation of programs related to the objective of improvement of energy efficiency by conducting energy audits and implementing the recommendations arising thereof
- Facilitate technical exchange by organizing energy conservation/management teams in organizations and by arranging inter-plant visits
- Support /facilitate /organize energy-related research



The SEEM Students chapter was officially inaugurated at PCE, where I emphasized the critical significance of embracing cutting-edge Industry 4.0 technologies. This adaptation is pivotal for students to enhance their competence, enabling them to not only thrive in evolving job profiles but also to excel in the innovation-driven startup ecosystem.



Traditional Day



The Department of Electrical Engineering organized a Traditional day, The day comprises of representation of different cultures of India.



Teacher's day



Department of Electrical Engineering

"Teacher's Day Celebration"

5th September 2022

Seminar Hall, Department of Electrical Engg., PCE, Nagpur

Objective: Teachers' Day is celebrated to mark the birth anniversary of Dr. Sarvepalli Radhakrishnan. It aims to raise awareness about the role of teachers in providing quality education at all levels and offer gratitude to teachers for their contribution in building the society and nation.



Akshay Urja Diwas



Faculty and students of electrical department Spreading message
(CONSERVE ENERGY TO PRESERVE FUTURE 🌱)- 20/08/2022



Akshay Urja Diwas is an initiative to raise awareness for the development and efficient use of renewable energy in India. As the young generations are key to our future, the Department of Electrical Engineering, PCE, Nagpur has organized various activities like tree plantation, students formed a human chain to promote efficient and green energy sources, holding energy saving quotes by students and then displayed on notice board in Electrical Engineering.

All the staff and students of Electrical Department gathered in Priyadarshini College of Engineering and celebrated Akshay Urja Day to make the awareness about energy sources generated.



Mini project



*Student's Presenting Their Mini
Project's*



Mini Project Competition under SEEM Student Chapter

15th April 2023, 2.00 P.M.

ATF-304, Electrical Engineering Department, PCE, Nagpur

Expert / Judge: Dr. U.B. Malkhandale

Coordinator: Dr. V.G. Umale and Ms. P.N. Gaurkar

Objectives: 1. To implement small circuits or assemble the electronic components to develop the circuit by applying basic concepts of the subject taught in the 3rd and 4th Sem. 2. To explain the functioning of various components and the complete circuit.



Design of Three-phase Transformer workshop

“Design of Three Phase Transformer a Practical approach”

17th April to 21st April 2023, 10.30 to 5.30 P.M.

Room B-TF 306, Electrical Engineering Department

Resource Person: Mr. Nachiket Kulkarni

Coordinator: Dr. U.B. Malkhandale and Mr. M. Ahmed

Objectives: To understand the design parameters of 3 phase Transformer

1. To construct /develop 3 Phase Transformer
2. To perform various tests on 3 phase Transformer



E-POWER 2022-23



Workshop on Industrial Automation (PLC & SCADA)

12/12/2022 to 16/12/2022

BTf-302, Computer Center, Department of Electrical Engineering

Co-ordinator: Dr.V.G.umale, Prof.A.A.Deosant

Resource Person- Mr.Dinesh Nimbalkar, Maximum Solution, Nagpur

Objective- 1. Benefits and scenario of Industrial Automation 2. Role of PLC and its programming 3. Hands on experience on PLC



Believe You Can, and You're Halfway There.



FAREWELL



The faculty of the Electrical department with final year students on farewell day





Guest Lecture

Guest Lecture on Energy Conservation

15th April 2023, 2.00 P.M.

ATF-304, Electrical Engineering Department, PCE, Nagpur

Resource Person: **Dr K.Ramsha, Assistant Professor, VNIT, Nagpur**

Objectives: To make students aware of-

1. Energy Conservation by energy saving and use of energy-efficient devices.
2. Role of BEE in the energy sector.
3. Preparations for examination of Energy Manager and Energy Auditor.
4. Entrepreneurship opportunities in the energy sector.



E-POWER 2022-23

Skillship Summit 2022



In Association with
PRIYADARSHINI COLLEGE OF ENGINEERING
Skillship Foundation Presents
TWO DAYS NATIONAL TECH CONFERENCE
Skillship Summit 2022
Date: 9 & 10 December 2022

Registration fee (Rs. 1000/-)
Includes:
1. Participation in all events
2. Two days lunch
3. Registration kit
4. Certificate
Lots of other exciting prizes

Hackathon | Workshop | Speed Hiring
Experts Talk | Panel discussion
Continuous 24 Hours Hackathon

Scan to Register

Workshop
1. IoT Privacy & Security Concerns
2. Forensic Science
3. Artificial Intelligence in AI & Machine Learning
4. Data Science Analytics & Statistics
5. Robotics & Automation
6. Leadership & Business Strategy & Entrepreneurship

Speed Hiring
Companies are coming to hire you

Venue: PRIYADARSHINI COLLEGE OF ENGINEERING, Hingna Road Nagpur

Dr. A.C. Kalilke Co-ordinator | Dr. M.V. Vyawahare Co-ordinator | Dr. V.K. Taksande Dean (SW) | Dr. S.S. Shiramwar Convenor | Dr. G.M. Asutkar Vice Principal | Dr. S.A. Dhale Principal, PCE | Dr. Vivek Nanoti Director Engg. LTJSS

Welcome to the world of
WEB 3.0
Summit that brings brighter mind ahead

Hackathon win prize upto 20,000 INR
Get hired by partnered company

Scan to Register

Skillship Summit
December 9th-10th, 2022
Place: Priyadarshini Campus, Hingna Rd, Digdoh Hills, Nagpur
Register now: www.skillshipsummit.com

Summit Track 1: Tech | Summit Track 2: Skill Development | Summit Track 3: Startup | Summit Track 4: Entrepreneurship



Here is the most awaited event of the Skillship Foundation, This time we are focusing **hashtag#web3** we love to have participants from across India also putting the Taste of 24 Hours Continuous Hackathon calling all the winners of **hashtag#sih2022** to be part of this summit, Hear from industry experts, for job seeker this summit will give them the relaxation, In the summit, we are introducing our New Concept of Speed Hiring where the company will come and hire the participant directly so it will be the opportunity for Participant & for the companies as well...

There are a lot of things for everyone and lots of Surprises for participants

Success Is the Sum of Small Efforts Repeated Daily.

18



Industrial Visit



The students along with Industrial Supervisor- Thermal Power Plant, Rhapsarkheda



The students along with Industrial Supervisor- HVDC Station, Chandrapur

23rd ISTE NATIONAL ANNUAL STUDENTS CONVENTION





Sports

Students Sports Meet “SPARK SPORTS”
21st-23rd Feb 2023

PJPCoEd Ground
Sports Incharge: Mr.L.M.Bopche

Objective: Sports help teams make sense of their data and apply it to practical solutions in the program, satisfying the following objectives:

1. To teach various skills to students like leadership, patience, team efforts, and social skills.
2. To promote creativity and innovation in the learning of scientific concepts in the fields of fitness and nutrition.
3. To achieve maximum individual or team efficiency in a selected sports discipline limited by rules.





Ashwamedh

Students Sport Meet “ASHWAMEDH2023”

17th-18th March 2023

Event Venue: PCE Lawn

Objective:

1. To promote opportunities for everyone to experience the culture, participate in educational programs, and develop their creative abilities
2. To provide the chance to develop skills beyond reading and writing.



E-POWER 2022-23



Ashwamedh



You Are Stronger than Your Excuses.

Articles

Life Decision, Introvert & Friends

Life Decision

Every person, at some point in life, makes decisions based on gut feelings without hesitation, often driven by a desire to escape the current situation or possibly fueled by narcissism. In my own story, I've learned that an engineer is an engineer, regardless of where they graduated from. While choosing a diploma over PCM still haunts me, I don't think it was a bad decision. It's your life, so the responsibility for decisions must be taken by you after thorough research. Taking steps based solely on gut feelings is more suited to a game than to life.

Introvert

In my opinion, an introvert is someone who lives in an imaginary world or a person with multiple personalities. They may not talk in public, but when it comes to their field of interest, they go overboard. Consider one of your classmates always sitting in the corner of the class, having zero interaction with others, and remaining silent throughout the day. They seem almost non-existent. Without interacting with people, you cannot claim your existence. Little by little, interaction with people around you can help with your social anxiety.

Friends

Friends are the people who connect you to a different world. Their impact can change your personality. I had an introverted personality throughout school. After taking admission in diploma, my journey from introvert to extrovert began. I became friends with Roshan on the first day because of Jio (data sharing), Atul, and Pushpak during the first-semester exam, even though we had never talked. They are the reason I don't have social anxiety anymore. Just like Roshan, Atul, and Pushpak, I have great friends: Prashant, Samyak, Trilok, Saransh, and Shyam.

In the end, take every challenge and make every decision by yourself because it's easier to clear your own mess.

By- Jayash Binzade
(4th semester)

Zindagi...

Ek joker ne logo ko 1 joke sunaya to sab log bohat hasse.
Usne vahi joke dubara sunaya to kam log hase Usne vahi joke fir se sunaya toh koi bhi nahi
hasa.
To phir Usne 1 bohot pyari baat boli ki -
Agar tum 1 khushi ko le kar barbar nahi
khush ho sakte to phir ek gham ko le kar bar bar rote kyu ho??

By- PrashantGajbhiye
(4th semester)



UPCOMING ENGINEER'S

In the future, engineers will play a pivotal role in addressing complex global challenges. From sustainable energy solutions to advanced healthcare technologies, engineers will lead innovation and drive societal progress. Their expertise in fields like artificial intelligence, biotechnology, and environmental engineering will be crucial for creating resilient and efficient systems. Engineers will collaborate across disciplines, applying creativity and problem-solving skills to tackle emerging issues, ensuring a sustainable and technologically advanced future. As stewards of progress, engineers will shape the trajectory of society, driving advancements that improve quality of life and contribute to the overall well-being of humanity.

- Gautam Sonpitale
(4th semester)

THE HAPPIEST DAYS OF YOUR LIFE?

School days should be a happy time in a young person's life. What can make people's lives a misery during this time, then? In my opinion, there is one word which answers the question – bullying.

Unfortunately, bullying is quite common in schools where I live. It can affect students of any age, and both boys and girls. A friend of mine had a very negative experience at school last year as an older boy continually called him names and sometimes used to post nasty messages about him on Facebook. Obviously, my friend felt very upset about this and it affected his self-confidence. Some days, he didn't want to come to school at all.

What can people do to stop this problems? Personally, I think teachers need to be aware that bullying may be happening in their classes and be very strict when they have a case of bullying. Another thing teachers could do is prepare lessons to talk about the problem with their pupils, which might make bullies realize how badly they hurt their victims. As for students, if they find out a classmate is being bullied, they should support them as much as possible and let a teacher know. Bullying can be a nightmare but there are things we can do to prevent it. Hopefully, one day all students will be able to go to school without fear of being bullied.

-Mahek Sheikh
(4th semester)



Articles

HAPPINESS
— Vaidehi Khadse

"Happiness is not something you postpone for the future; it is something you design for the present."
But have you ever wondered - what being happy exactly is? Well, the word 'happiness' is a bit complex one and comes in different definitions with every different person. People have personal ways to fulfil being happy. When it comes to a small kid, happiness is - his teacher giving a star on his hand, to a young, it is the fulfilment of personal goals & desires & to a old man - it is playing with their grandchildren. Often repeating a specific action, looking at the bigger picture with positivity and eliminate stress are ways to fulfil being happy.

But, in my opinion -
HAPPINESS revolves around only one word that is 'SATISFACTION'. It is a sort of contentment that deep down I desire just as much as any person can. In my view, if you are satisfied, you are happy.

The feeling of happiness is not constant, it is always lingering. Always securing Rank 1 and winning isn't enough. Sometimes, there are tough circumstances and we have to fight against it. But, that's fine! It's all the part of life. The only thing to remember is - we have to give our 1000% and have to fight with all our might till we are satisfied and that's what really matters! When one door of happiness closes, another opens; But often we look so long at the closed door that we do not see the one which has been opened for us. So, we just have to have a broader and an optimistic outlook towards things. Don't wait for the things to get easier, simpler and better. Life will always be complicated. Learn to be happy right now. Otherwise, you will run out of time. We can't often choose our circumstances but we can control our reactions & emotions. Be happy in the moment. That's enough. Each moment is all we need, not more. Make happiness a positivity and radiate joy from the inside out.

So, this is MY IDEA OF HAPPINESS. What's yours???

21 JANUARY TUESDAY

THE DARE LIES WITHIN YOU...

Leaving high in the sky of relations,
Let every tiny star catch your attention.
"Yet, is every note of yours given justice to?"
"Is the world really so true?"
"Eudæmon, anger, dishonour and abuse,
Ladle the burdens and load your mood,
An inevitable warrior lies within you,
The dare to fight lies within you!"
"Your silence is mistaken as discouragement,
At times peace and calmness is a rage,
Let the fierce words speak for you,
The dare to rise lies within you!"
"A meek soul needs respect with delight,
Overpower the fused minds, paint them bright,
Let your actions define the warmth in you,
The dare to live lies in you!"

22 JANUARY WEDNESDAY

A small step leads a difficult path,
Let go off the judgemental wrath,
Let the spider weave a web new,
The dare to overcome fear lies within you!

Every majesty needs an artistic creator,
The one to turn blunder into wonder,
Allow the sun rays to colour the sky blue,
The dare to grow lies within you!

Be a daughter, mother, husband or a friend,
Let evils bend to make you bend,
A free spirit, have the courage,
Remember you,
Yes the dare lies within you!!

— Vaidehi Khadse
(3rd yr) (ET)

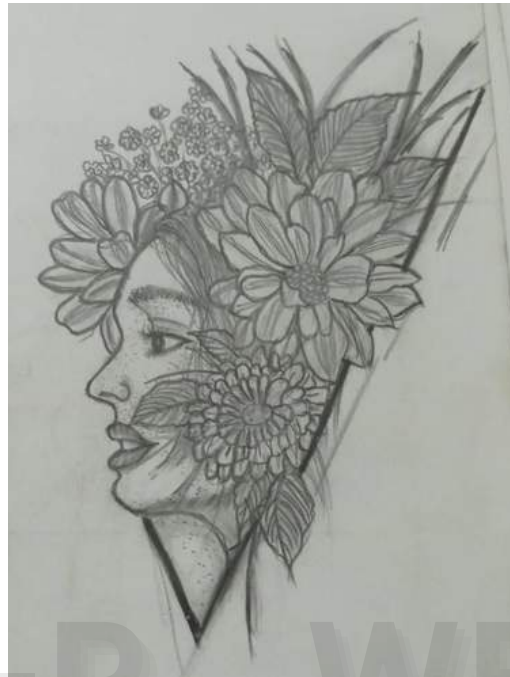
Wrote by Vaidehi Khadse 5th sem

Wrote by Vaidehi Khadse 5th sem

Fear Nothing, Achieve Everything.



Sketches



Made by Parnvi Rade 4th sem.



PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR DEPARTMENT OF ELECTRICAL ENGINEERING

PROGRAM OUTCOMES (POs)

PO **Statement** - Engineering Graduates will be able to:

- PO-1** **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an Electrical engineering specialization to the solution of complex engineering problems.
- PO-2** **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and Electrical engineering sciences.
- PO-3** **Design / Development of Solution:** Design solutions for complex Electrical engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO-4** **Conduct investigation of complex problem:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the Electrical Engineering information to provide valid conclusions.
- PO-5** **Modern tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Electrical engineering activities with an understanding of the limitations.
- PO-6** **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Electrical engineering practice.
- PO-7** **Environment and Sustainability:** Understand the impact of the professional Electrical engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO-8** **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Electrical engineering practice.
- PO-9** **Individual and Team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO-10** **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO-11** **Project Management and Finance:** Demonstrate knowledge and understanding of the Electrical engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO-12** **Lifelong Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Rohit Pipare
Editor



Achal Fulzele
Member

Dear Readers,

We are happy that this magazine provides a platform for students to exchange ideas and share their zeal, building a community that is ever-closer together. We would like to finish by thanking everybody who has contributed to this magazine, whether directly by writing for this magazine, or indirectly by taking part in events happening in the department. We hope it brings you as much pleasure reading about the achievements and experiences written through the eyes of various students as it brought us in writing these many articles for you. Happy reading!!!