

Lokmanya Tilak Jankalyan Shikshan Sanstha's
PRIYADARSHANI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING

E - POWER

Experience the Power of Professionalism

2021-22

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L

"I am somewhat exhausted; I wonder
how a battery feels when it pours
electricity into a non-conductor?"

— Arthur Conan Doyle



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

(Approved by A.I.C.T.E., New Delhi & Govt. Of Maharashtra, Affiliated to R.T.M. Nagpur University, Nagpur)
Priyadarshini Campus, Near CRPF, Hingna Road, Nagpur – 440 019, Maharashtra (India)

Department of Electrical Engineering

E-Power 2021-22

DR. SONALI DHURVE
Chief Editor

DR. R. A. KESWANI
HoD

DR. S. A. DHALE
Principal

Editorial Team

Isha Thul



Rahul Dholne

Cover Page Designed
By
Rohit Pipare

DEPARTMENT OF ELECTRICAL ENGINEERING

Vision:

To become a centre 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 innovative technocrats in the field of electrical engineering.
- To generate quality human resource for industry.
- To encourage student to become self with relevant technical employed knowledge.
- To develop competent technocrats with high moral and ethical values.
- To fulfill the expectation of society by creating resourceful and responsible engineers.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

| PEO | Statement |
|-------|---|
| 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. |

PRINCIPAL MESSAGE

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

~John Quincy Adams



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's flair and drudgery.

I congratulate all the contributors and the editorial board for accentuating such an engrossing and wonderful magazine. I am sure Students and faculty will enjoy reading this magazine. Our College has the exemption to have a healthy and harmonious ambience; the commendation goes to our nonpareil College Management. I take this opportunity to express my sincere gratitude towards Management for stimulating and providing us with a 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

VICE-PRINCIPAL MESSAGE



I am very blissful to speak to you through this College Magazine, as Priyadarshini College of Engineering blows the lid off the annual College magazine "E-POWER" for the academic year 2021-2022. Publishing a magazine is indeed a Herculean task.

In recent years, when our Students are concerned about their academic excellence, they have to be coaxed, persuaded and encouraged to exhibit their writing talents. The Editorial Board has done therefore 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

HOD MESSAGE



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

"E-POWER" 2022 makes us realise our Student's knack and their backbreaking work for this magazine. Congratulations to the team for their astounding efforts in bringing out our Electrical Department Magazine "E-POWER". "There is nothing impossible to those who will try." Your passion for success has no end. All the Best wishes for your auspicious future.

HoD, Dept. of Electrical Engg.

Dr. R. A. Keswani

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 to 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, we are thankful to all the authors who have sent their articles and to readers who made this magazine so fascinating and admired.

Chief Editor

Dr. S. N. Dhurvey

EDITORS DESK



We are delighted to provide our department's magazine "E- POWER". Students have worked hard this year in academics, co-curricular, and extracurricular activities. This year, our department of Electrical Engineering publishes a large magazine aptly named "E-POWER". The magazine's objective is to provide a forum for students to express their activities and thoughts, making it an important component of their personality development. We would like to express our heartfelt gratitude to everyone who helped make this effort a success.

We extend our heartfelt gratitude to Dr. S.A.Dhale, Principal (PCE), for his direction in allowing us to publish this magazine "E-POWER". Last but not least, we are appreciative to everyone.

Chief Editor

Mr. Ankush A Deosant

THE EDITORIAL DESK

Dear Readers,

Many landmarks have been set and many milestones to par, before we rest' every PCEian has joined hands to make PCE, so big, so mighty, so there is nothing that PCE can't do. PCE has been an enlightening source of knowledge and observes transformations in the context of its face-lift, academics, and cultural and brought a sociological change in the belt of Nagpur, Maharashtra. This issue covers all the achievements, the colourful events celebrated and activities held in the year 2020 to enlighten all about the happenings of the college. We hope this newsletter will be informative to all the readers.

This magazine is a compilation of the activities and achievements of the college held during the year 2020. Any modifications and suggestions are most welcome !!!

- Isha Thul

I hope that reading this magazine will have an impact on and encourage you to have an impact on others. We may never know how much our words or actions influence the lives of those around us. But we can choose daily to be a positive influence on others in a way that could change the rest of their lives even if it's just within the walls of where you work.

I am thrilled to bring forth this publication, which showcases the creativity, innovation, and passion of our students. Happy Reading !!!!

- Rahul Dholane



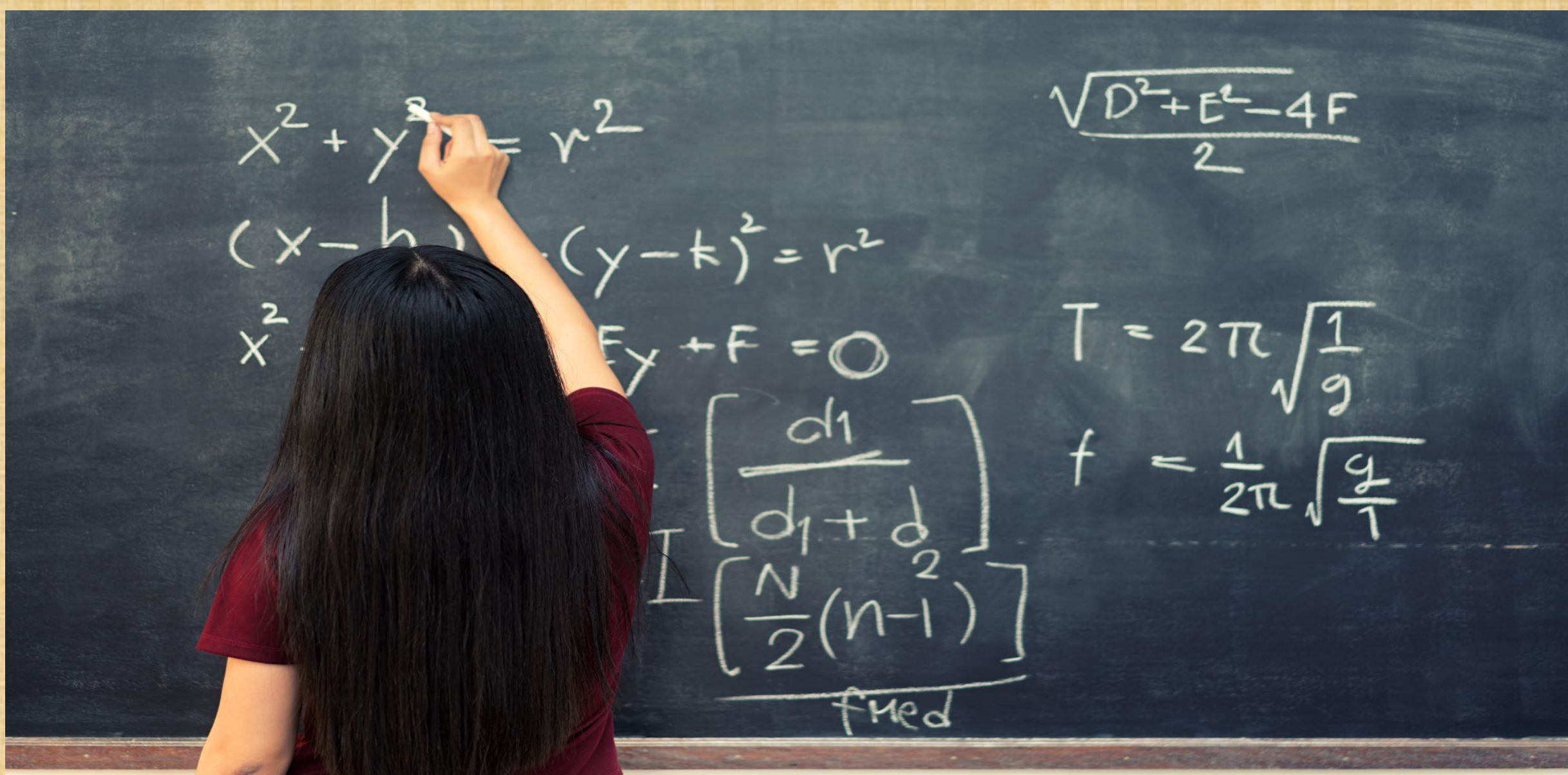
STUDENTS MEMORIES

Both College and School life are one of the most unforgettable & lovable life spans of an individual life. Because, from getting up from bed to being ready in a neat manner, going to college, being attentive to sessions & also after college carrying out & completing tasks and then going to bed with satisfaction, is literally like playing the Dart Board game of real life. "Because in both better the efforts the best will be the result".

I feel so lucky that I got the chance to enjoy my college life. Because, of the way we enter the college, the enhancing greenery of the nature around us & crowd of students with joyful faces gives us gracious vibes. Each year passing up gives us different inspiration and teaches us a lesson. And the main thing is the craziest memories that are from the canteen, freshers, traditional day, other programs etc. because these days are very special & exclusive days.

These fests give us new opportunities to explore hidden talent. And last, the only thing I would like to suggest is that, deal with college life in a better way & give your life the best memories. Thank you.

- Rahul N. Dholane



Social Media

Social Media is one of the most fast growing platforms in our era. We are able to communicate with other people very easily by using social media. Social media has enabled us to keep in touch with our friends who don't live close to us. We are also able to know the news in other parts of the world much easily by using social media. We can create a group of many people together in social media to discuss about a particular issue.

We can see the variety of opinions which arises by discussing and debating about a particular subject or incident.

Some people whose voice was not heard before are able to bring out the truth to the public. We are also able to share videos, pictures, etc. with just one click through social media. We are able to build better relationships with our friends.

Thus, we can say social media is very useful for an individual in many ways.

Social media also has a harmful effect if it is not used wisely or judiciously. Some people get addicted to

Social media like Instagram, Facebook, etc. This leads to decrease in their productivity in real life.

People who hooked on their phones and face to face meeting have become very uncommon because of social media.

People are doing very less exercise these days and are engrossed in social media. It makes them unhealthy.

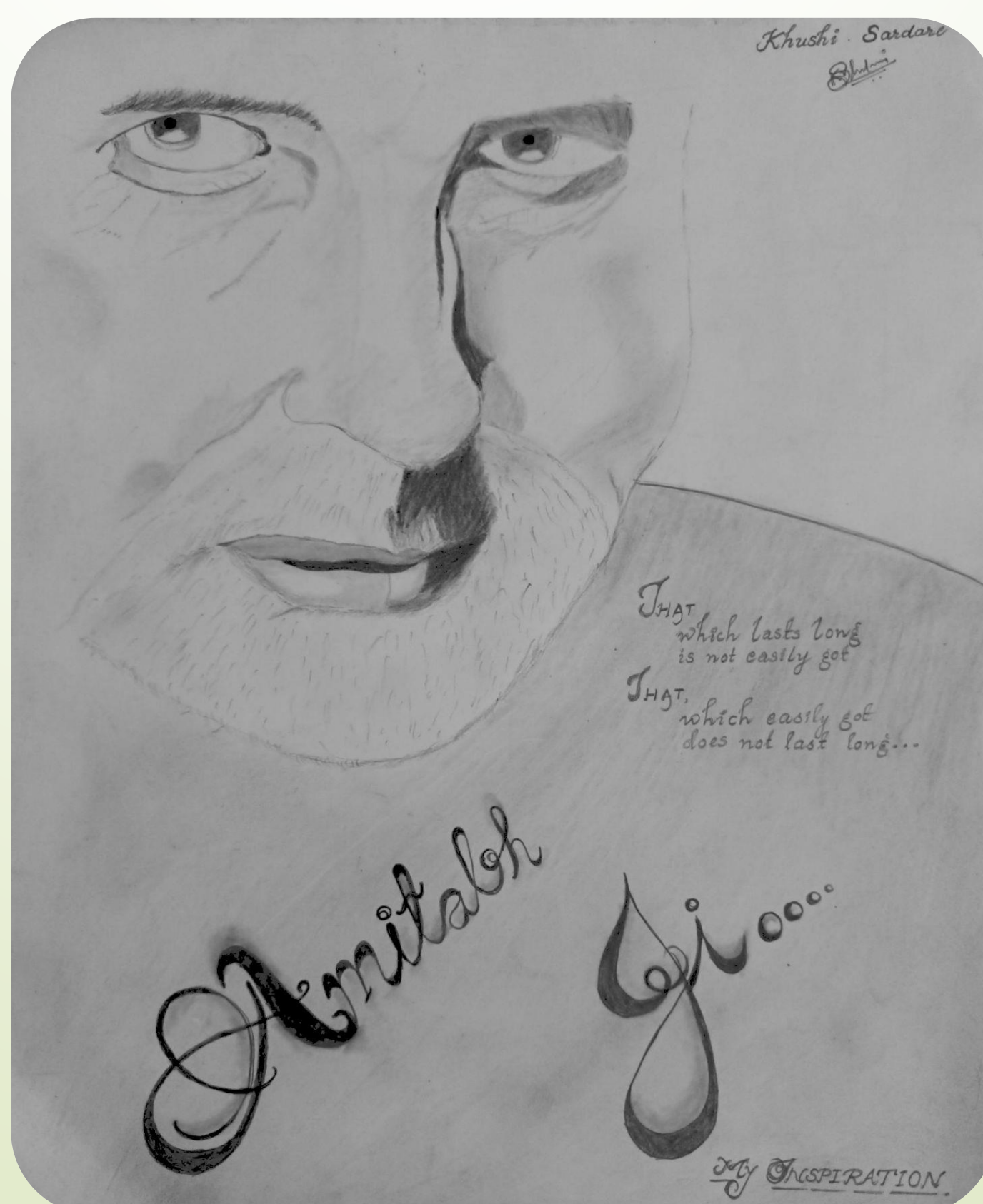
Overusing of social media will lead to many eye problems for the user because of staring at their eyes. and can lead to eye problem.

People are now very eager only thinking about new posts, new notifications, etc. Thus, social media has a negative effect on the life of an individual.

PORTRAY

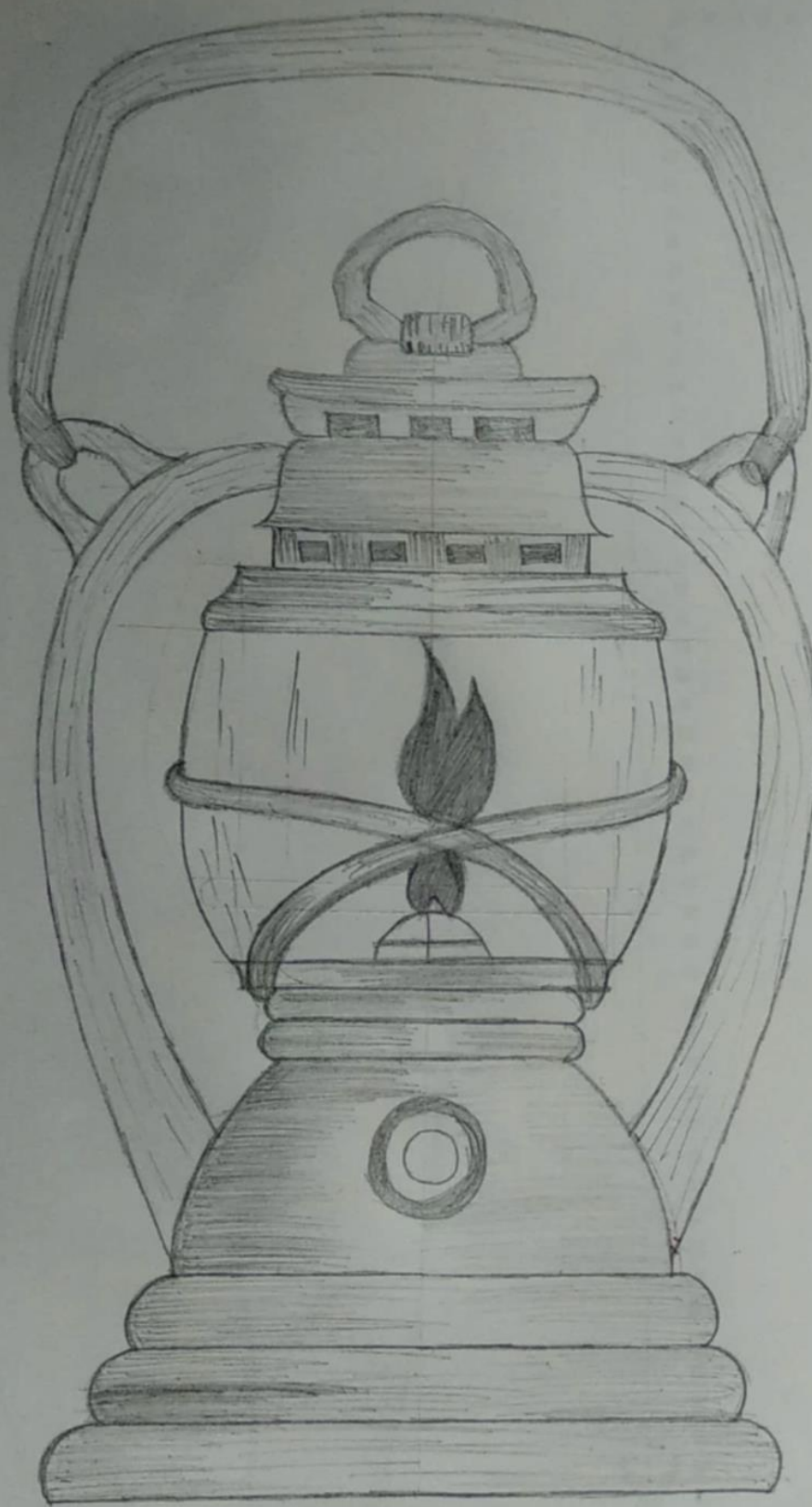


Artist:- Khushi Sardare



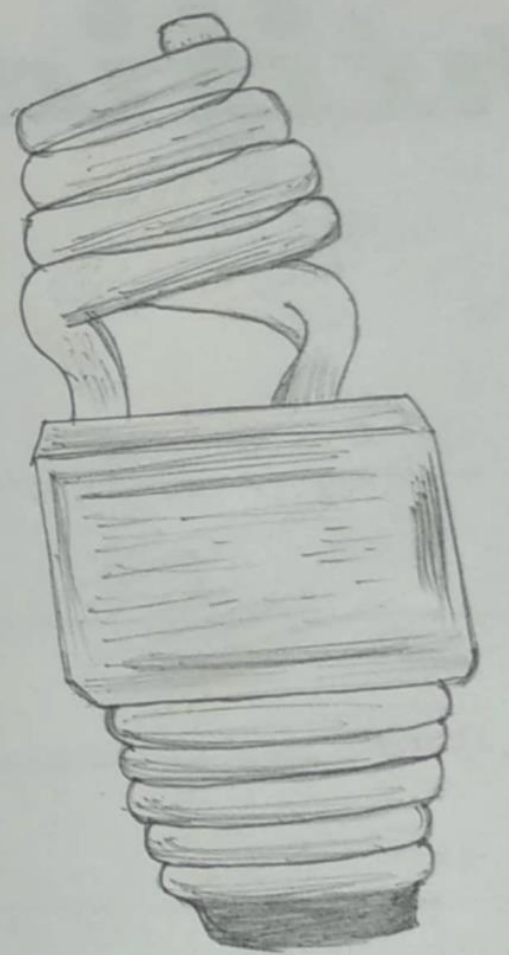


Radhika V. Gauzkhede
Sem :- 6th Sem
Branch :- Electrical

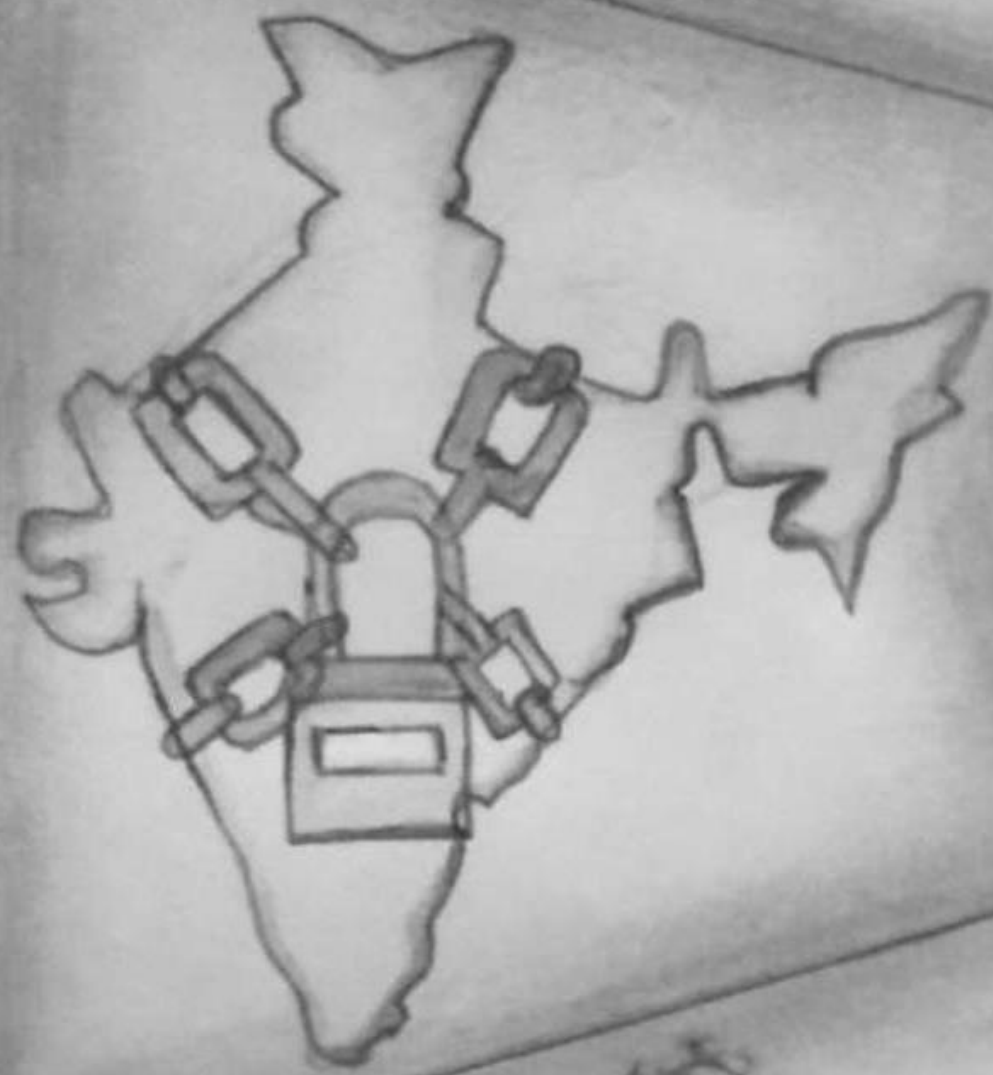


Then

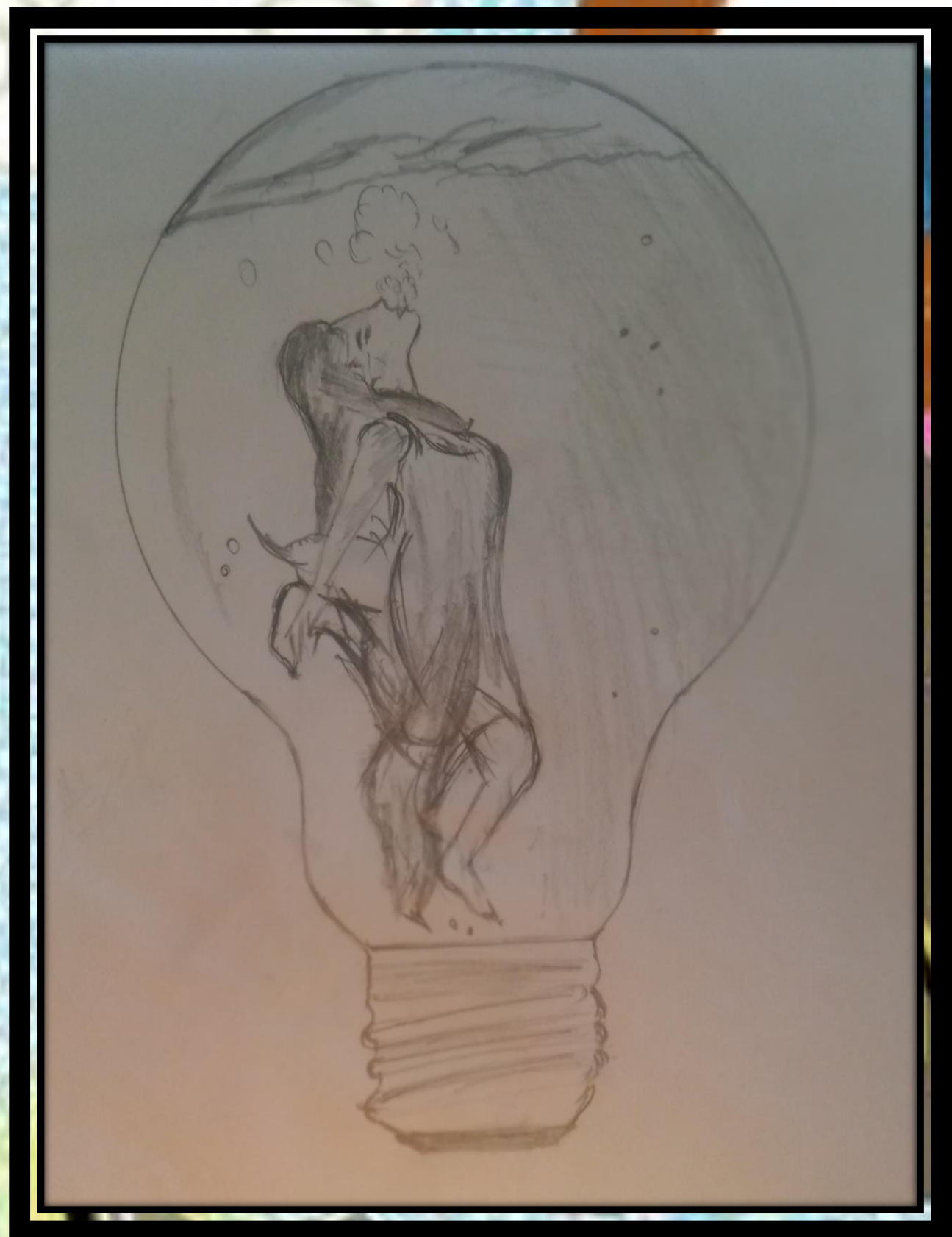
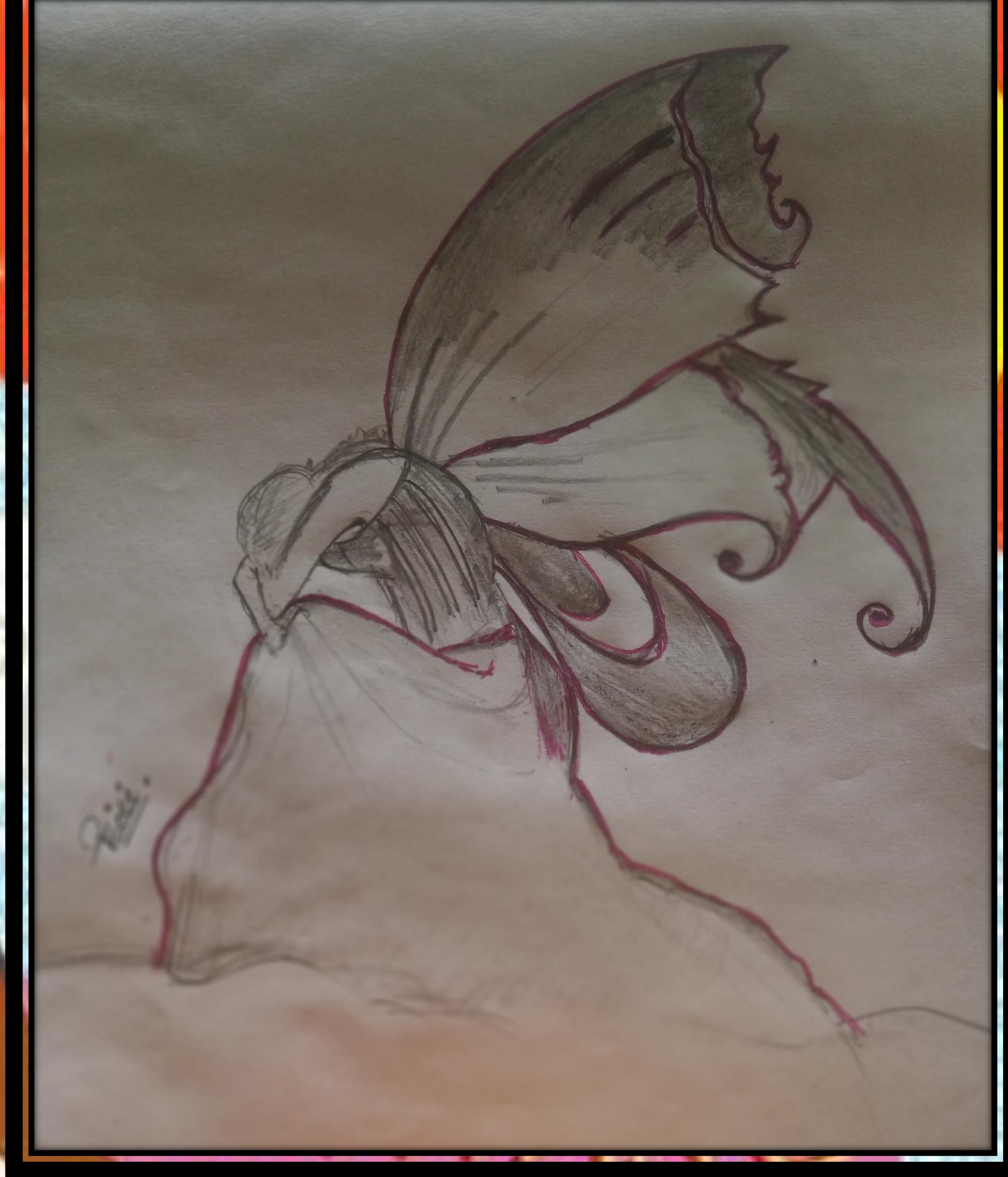
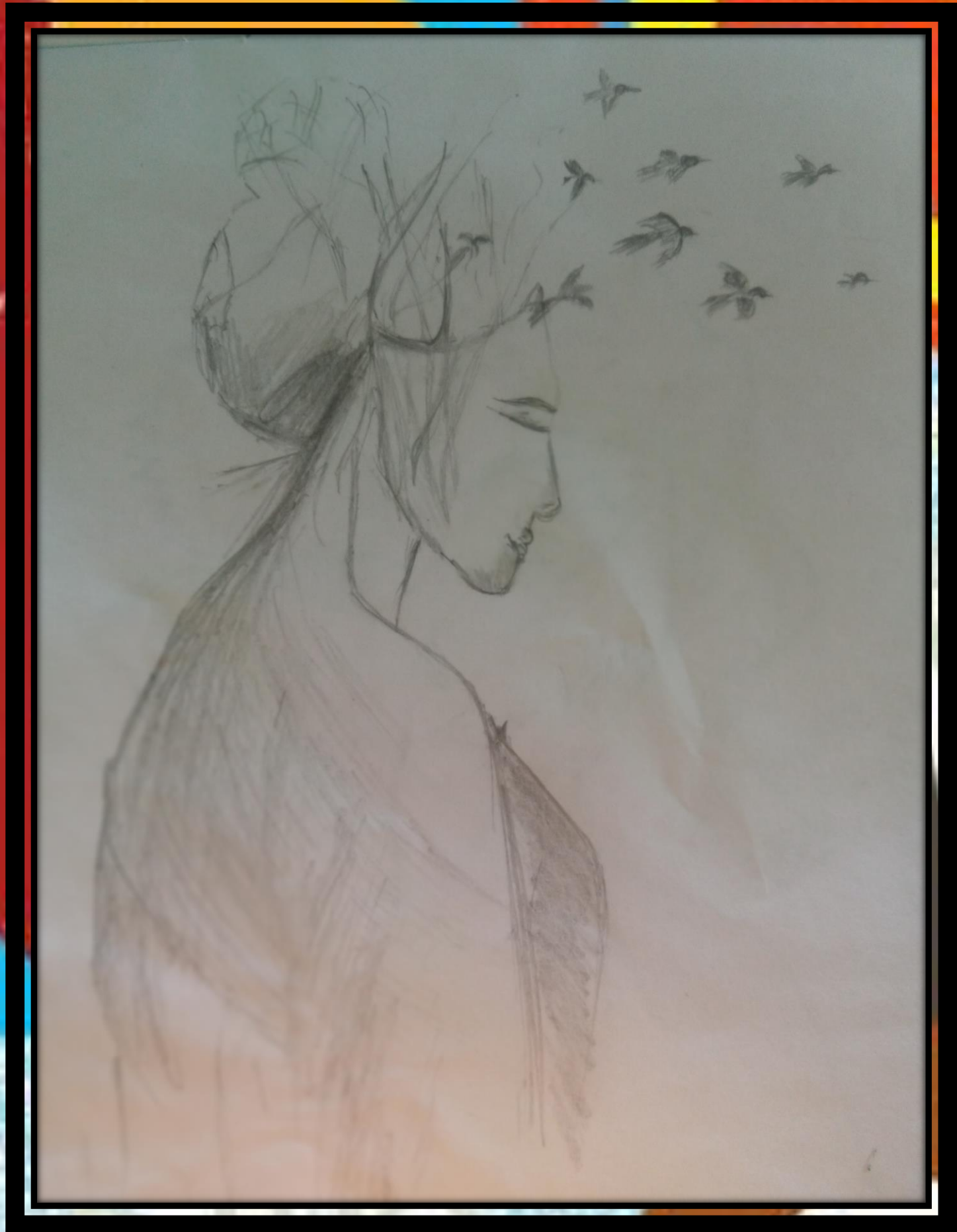
Radhika V. Gauzkhede
Sem :- 6th
Branch :- Electrical



Now



Puja N.
Choudhary
5th Sem EE



LEGENDS

NONFICTION

ADVENTURE



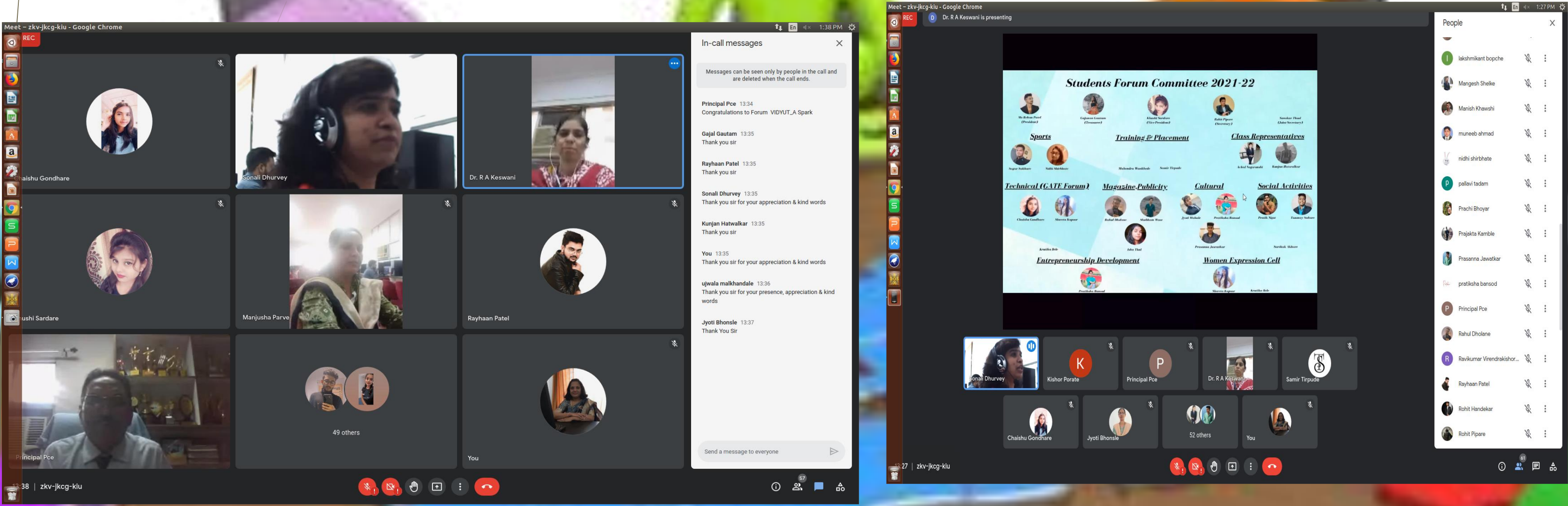
FORUM INSTALLATION

Session 21-22

Installation of Student Forum

“4VIDYUT, A Spark.....4”

Date-29/10/21



FORUM INSTALLATION 2022



FORUM INSTALLATION 2022



ISHA THUL

Magazine, Publicity Head
FORUM, EE dept., PCE



RAHUL DHOLANE

Magazine, Publicity Head
FORUM, EE dept., PCE



SHUBHAM WASE

Magazine, Publicity Head
FORUM, EE dept., PCE



ACHAL NAGWANSHI

Class Representative
FORUM, EE dept., PCE

FORUM INSTALLATION 2022



KUNJAN HATWALKAR

Class Representative
FORUM, EE dept., PCE



PRASANNA JAWATKAR

Head Cultural
FORUM, EE dept., PCE



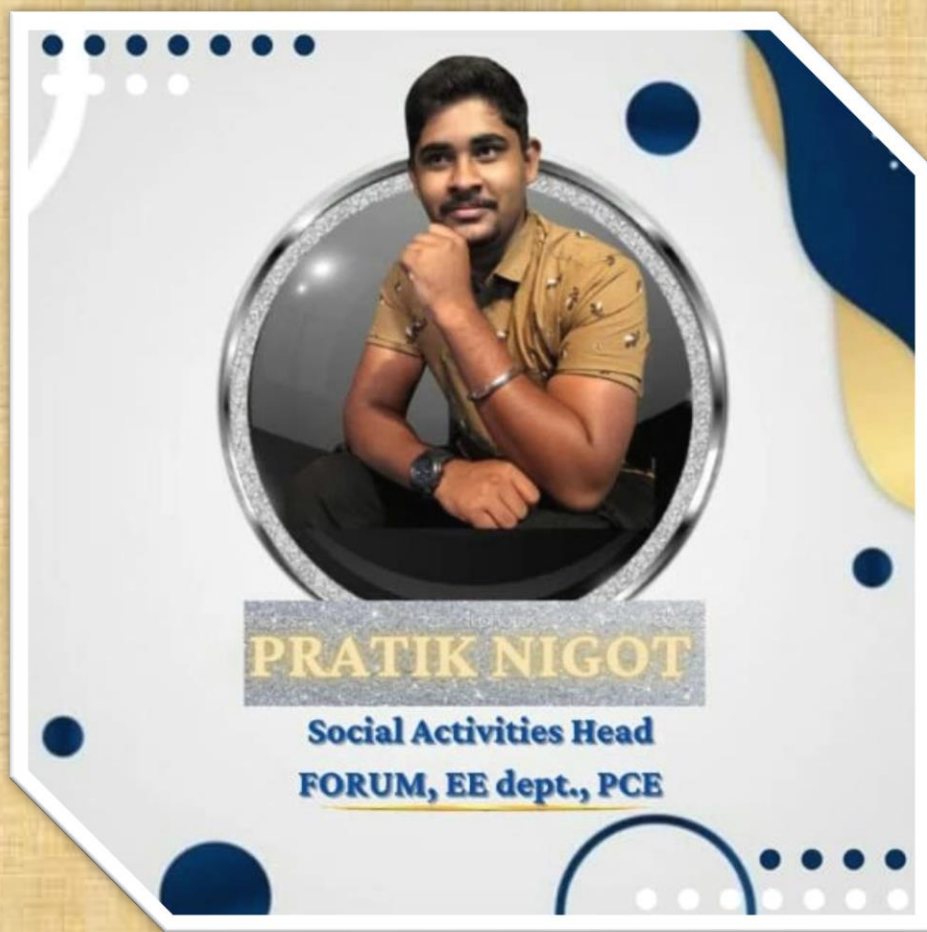
JYOTI MAHULE

Head Cultural
FORUM, EE dept., PCE



CHAISHU GONDHARE

Technical Head
FORUM, EE dept., PCE



MoU signed between SEEM, a National level Professional Society and our Institute, PCE, Nagpur with point of contact through Electrical Engineering Department. Also initiated SEEM Student Chapter.

Date-18/01/22



MoU with Maximum Solutions, Nagpur
Date- 14/02/2022





GUEST LECTURE

Guest Lecture on Electrical System Design 25/03/2022



Guest Lecture on Industrial Automation 14/02/2022

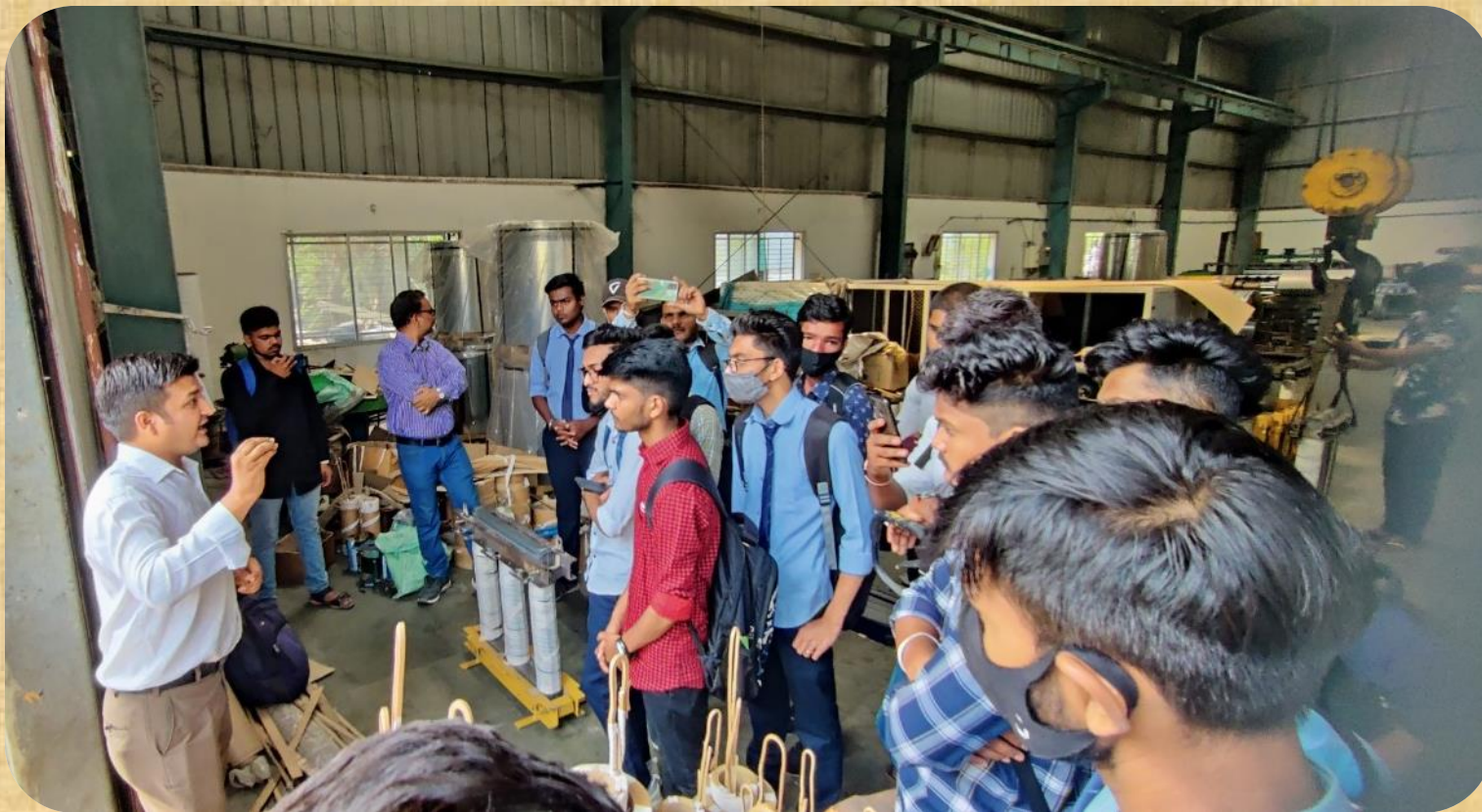




WALL MAGAZINE INAUGURATION



INDUSTRIAL VISIT at HI-Rise Transformer Hingna MIDC Nagpur



INDUSTRIAL VISIT at Thermal Power Plant, Khaperkheda



Founder's day Celebration by donating Stationary to students

Date-10/10/21



SAY NO TO PLASTIC



A Drop box placed in front of the house by wall side of the garden for plastic waste.



आयुष्य



आयुष्यभर सोबत असुन
जवळ कधी बसत नाही
एकाच घरात असुन आम्ही
एकमेकास दिसत नाही ||

हरवला तो आपसतला
जिव्हाळ्याचा सवाद
एकमेकास दोष देऊन
नित्य झाले वादविवाद || १ ||

धाव धाव धावतो आहे
दिशा मात्र कळत नाही
हृदयाचे पाऊल कधी
हृदयाकडे वळत नाही || २ ||

इतक जगुन झाल पण
जगायला वेळच नाही
जगतो आहोत कशासाठी
काहीच कसला मेळ नाही || ३ ||

क्षण एक येईल असा
घेऊन जाईल हा श्वास
अर्ध्यावरच थांबलेला
असेल हा जिवन प्रवास || ४ ||

अजूनही वेळ आहे
थोड तरी जगुन घ्या
सुंदर अशा जगण्याला
डोळे भरून बघुन घ्या || ५ ||

Payal B. Gawande
: EE 5th Sem B

॥ बेटिया ॥



बेटिया यह बेटीया
घर चलाती बेटीया ॥
बहु बनकर जब चली
दहेज की बली बनी,
चुल्हा न था इनसे जला
फिर क्यो जली यह बेटीया ॥
जन्म भी ना ले सकी
गर्भ मे वह मर गई,
जिनसे परिवार तेरा बढा
फिर क्यो बची ना बेटीया ॥

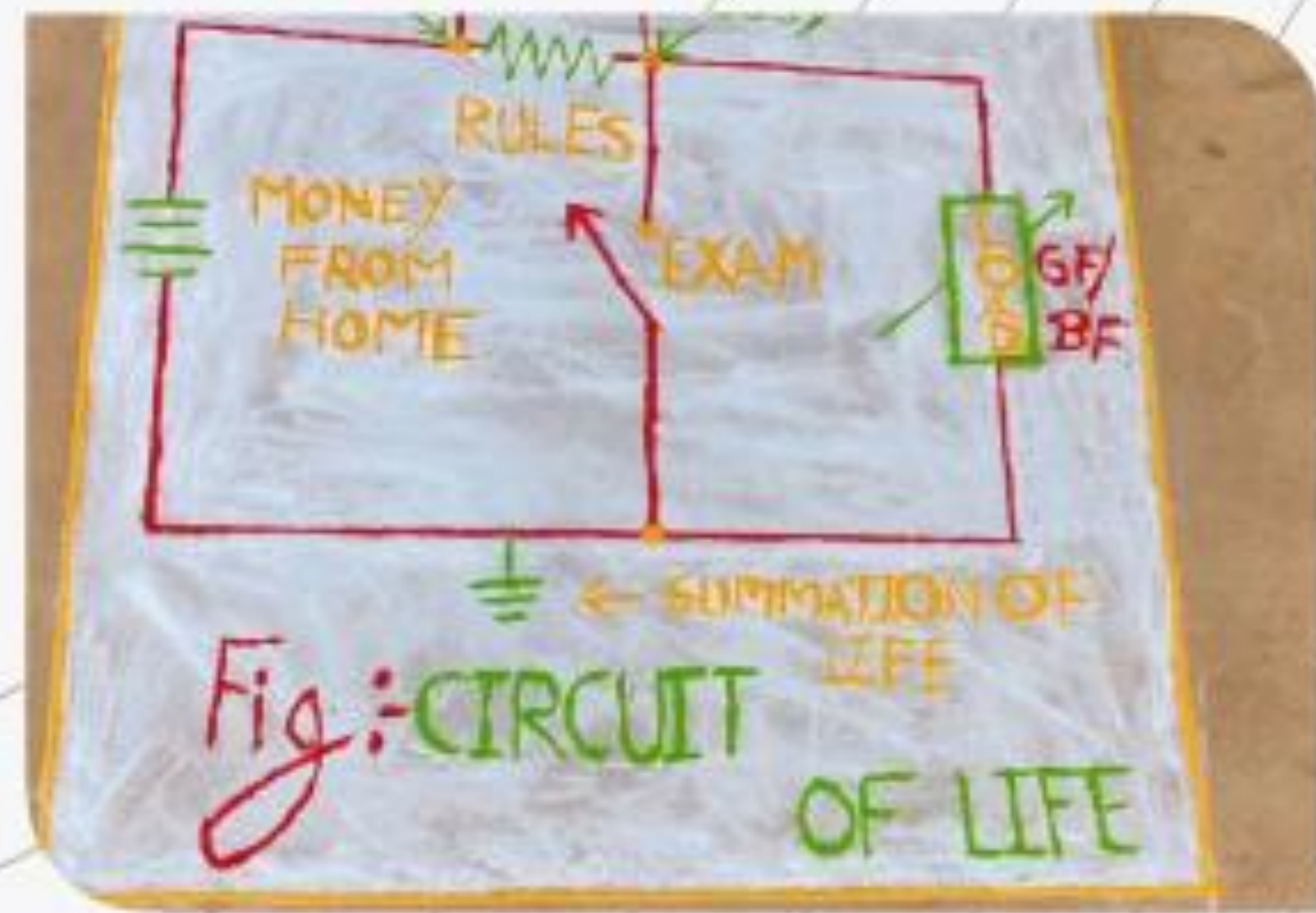


Payal B. Gawande
EE 5th Sem (B)



ELECTRO TECHFEST 2022

**ELECTRO
TECHFEST
2022**



VIDYUT THE SP ⚡ RK



ELECTRO TECHFEST 2022



Project Competition of Electro-of Techfest 2K22”

5th-April 2022



Workshop on Industrial Automation (PLC and SCADA)

9th May to 13th May 2022



Workshop on High Voltage Engineering (Theory to Practical Approach) 13th to 19th March 2022



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.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- 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.

