EEE ASSOCIATION

ELECTRAGE

2K23

BAPATLA ENGINEERING COLLEGE
(AUTONOMOUS)

EDITORIAL NOTE

It is a matter of pride and delight of enclose, a trend carried out b y

"EEE ASSOCIATION" MAGZINE "ELECTRAGE 2K23"

We had a great Immense pleasure towards it.We are very much ecstatic to bring out it. Like every year we have tried our best to publish the elite articles submitted by students. In both technical and literary forms, in addition of photo and art gallery, highlights of technical events also included at end of the magzine .We emphasized our innovative technical ideas that are practical in their approach. It's a collective work of EEE ASSOCIATION . We sincerely thank to our HOD,STAFF advisor and faculty,Who supported us making this prestigious magzine.We are also thankful to students who paid their contribution towards events without whom the Magazinen would not have been possible. We hope that our ""ELECTRAGE 2023 "" satisfies all the readers and drives them into the;

""WORLD OF POWER AND IMAGINATION""

From President's Desk....

I am delighted to congratulate the students of EEE for the enthusiasm towards their magazine " ELECTRAGE-2K23". I think education as the means of developing our greatest abilities, because in each of us there is a private hope and dream which, can fulfil to benefit everyone and add Pride to the nation. Critical thinking and critical literacy skills are the tools. Students need to develop their active responsible participation in the global community. I believe this magazine will help you in pursuing your goals in more effective and meaningful way for your success.

Sri. Muppalaneni Srinivasa Rao

President of Bapatla Education Society

From Vice-President-1 Desk.....

I express my heartful wishes to the students, teaching & non-teaching staff of EEE Department for promulgating the departmental magazine "ELECTRAGE 2K23". These activities empower the students with the experience and ability to work in teams. I wish them a very bright future.

Sri. Doppalapudi Rama Mohan Rao

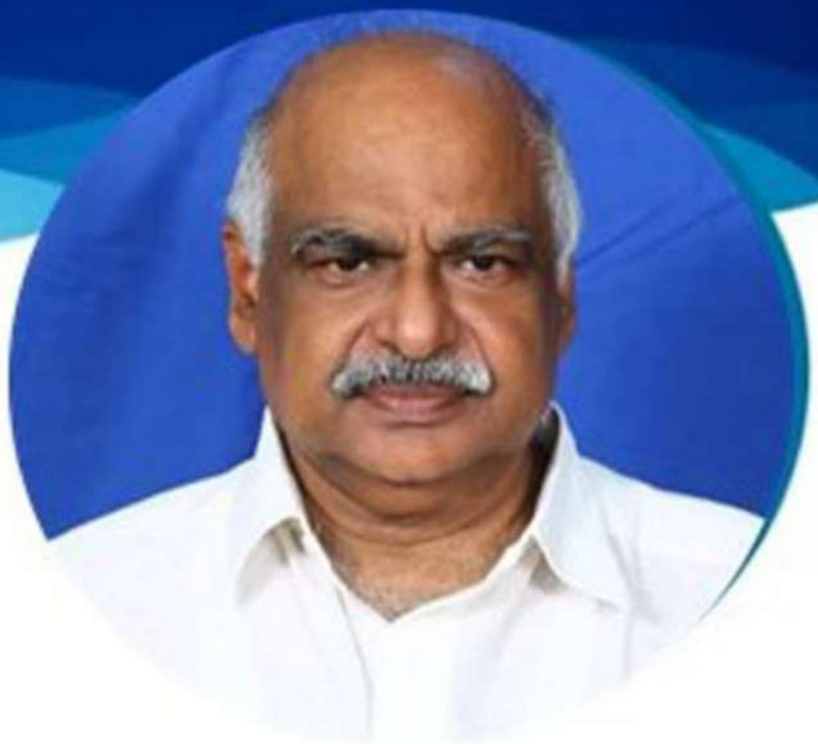
Vice-President-1 of Bapatla Education Society

From Vice-President-2 Desk.....

I am delighted to know that the EEE department is launching the magazine "ELECTRAGE-2K23" It is a perfect blend of literary articles, art, photography and wonderful memories of students which reflects their creativity and potential. I am very happy to convey my congratulations and best wishes to all the students and faculty for their efforts in bring this magazine in a good way. I wish them a very bright future .

Sri.Gelli Dileep Kumar

Vice-President-2 of Bapatla Education Society



From Secretary Desk...

It gives me immense pleasure to pen a few words as prologue to in house magazine (ELECTRAGE - 2K23) exclusively ment for churning out the latent writing talent which bears me immense potentiality as a part of our all personality development I congratulate all the contributions and the editorial board for bringing out such a response and enthusiastic participation by the students in the recent and past as well All the constituents come together and work in union. The expected results are sound to flow keep doing good work .

Sri. Manam Nageswara Rao

Secretary of Bapatla Education Society

From Joint Secretary Desk....

I feel happy that the department of EEE is bringing out the departmental magazine" ELECTRAGE 2K23" This magazine provides a platform for creative ideas among the innovative brains to exhibit their skills and talents in various spheres of technical and cultural events. I wish the organizers and students who contributed to this magazine a bright and prosperous future .

Sri . Kommineni Hari Padma Prasad

Joint Secretary of Bapatla Education Society

From Treasurer Desk.....

I feel very happy that the students of EEE brought forward the departmental magazine "ELECTRAGE-2K23".I admire them for following the academic tradition and participating in all the aspects. I congratulate all the people who involved for making this "ELECTRAGE-2K23" a glorious accomplishment .

Sri. Thalluri Ramakrishna Rao

Treasurer of Bapatla Education Society

From Principal Desk .....

Empowerment of students for their all round development through education is our motto. Today, education means not only acquisition of knowledge and skills, but also building character and leadership. Student's proactiveness in organizing and participating in different events in the campus would confidence in them and empower them with interpersonal skills, team spirit and build leadership qualities. Encouraging such spirit in the students and turning dynamic through such activities is always cherished.

I congratulate all the staff and students of the department of Electrical and Electronics Engineering for their active participation in bringing out the magazine of the department ELECTRAGE 2K23.

" I wish them all success in their future endeavours "

Dr.Shaik Nazeer
Professor,BEC

VISION OF THE DEPARTMENT

The Department of Electrical and Electronics Engineering will provide programs of the highest quality to produce globally competent technocrats who can address challenges of the millennium to achieve sustainable socio economic development.

MISSION OF THE DEPARTMENT

1.To provide quality teaching blended with practical skills.

2.To prepare the students ethically strong and technologically competent in the field of Electrical and Electronics Engineering.

3.To motivate the faculty and students in the direction of research and focus to fulfill social needs.

PROGRAMS EDUCATIONAL OBJECTIVES (PEO'S)

PEO1

Have a strong foundations in the principles of Basics Sciences, Mathematics and Engineering to solve real world problems encountered in modern Electrical Engineering and pursue higher studies/research.

PEO2

Have an integration of knowledge of various courses to design an innovative and cost effective product in the broader interests of the organization and society.

PEO3

Have an ability to lead and work in their professions with multidisciplinary approach, cooperative communications and interpersonal skills by participating in team oriented and open-ended activities.

PEO4

Have an abilty to enhance in career development, adapt to changing professional and societal needs by engage in lifelong learning.

From the HOD Desk.....

Its my great pleasure to be a part of EEE association and served as a President With great honour, to give this message to the association MAGAZINE of our department. We started this association since 2003 with a great attitude towards student . All round skills from this platform students have exhibited their through this our students are participated in various technical events conducted by country's premium institutions without any fear. I strongly believe our students are very strong in circular co-circular and spiritual activities. I hope that the same will be maintained future also. My primary focus would also be building closer ties between the EEE association and students. I hope to get more and more students being involved in our association activities. I also hope that our student and faculty members will maintain the standard of our department. Where ever they go through this association magazine, I appeal all the alumni of our department to extend their support to the development of the department . I thank the editorial board members for bringing this message in a beautiful and informative manner. Finally, all the best for our EEE students in future for getting a secure jobs or becoming an enterprener.

Dr.G Ravi Kumar
Professor,EEE Dept

From the Convener's Desk.....

As the convenor of the EEE Association, this is what I tell my students! The EEE Association is a student-run organisation that provides students with an excellent platform to promote their skills in various fields. It helps the student explore new avenues in life by motivating and enlightening his heart, mind, and soul. We always strive to bring the best out of our students to make them confident and fit for the competitive world. I would like to convey my sincere gratitude to our Honorable members of the Bapatla Education Society, president Sri Muppalaneni Srinuvas Rao sir, Vice Presidents Sri. Doppalapudi Rama Mohan Rao sir and Gelli Dileep Kumar garu sir, Secretary Sri Manam Nageswara Rao sir, Joint Secretary Sri. Kommineni Hari Padma Prasad sir, Treasurer Sri, Thalluri Rama Krishna Rao sir and our beloved Principal Dr.Nazeer Shaik sir, respected HOD Dr. G. Ravi Kumar sir for their constant support and encouragement throughout the preparation of this magazine.

I congratulate the whole team of Electrage Mr. G. Rajesh, Staff Advisor, Mr. G. Anil, Chief editor, Dr. K. Ramesh, Technical editor, Mr. S. Subramanyam, Literary editor, Mr. N. BalaKrishna, Teasurer and respective student bodies. Once again, I thank all the members for their enthusiasm and notable efforts for making a wonderful magazine ELECTRAGE 2K23 within a time limit. I take this opportunity, proudly say that every year we release a better version of our magazine than the one released earlier. I hope that the same will be continued in the future, also with the support and guidance of faculty members in our department.

Dr.N.RamaDevi
Professor,EEE Dept

Messages from...

I congratulate all the contributors and editorial group for the sincere effort in bringing out the magazine "ELECTRAGE-2K23". This is a platform for you to reflect your vibrant talents in a creative way.Through this message, I wish "All the very Best" for their future endeavors to and hope the students of EEE bring more laurels to the college on the whole.

Staff Advisor
Mr.G.Rajesh
Assistant Professor

I congratulate the students of EEE on behalf of the release of the magazine "ELECTRAGE-2K23"which has been a platform in bringing out the hidden talents of the students in making them all round developers.Always strive to be the best in whatever you do.Be humble and let your actions speak for you.May you be blessed with success and glory!

Technical Editor
Dr.K.Ramesh
Associate Professor

Welcome to our department magazine "ELECTRAGE-2K23".It gives me immense pleasure to ensure that this magazine has successfully accomplished its objective.The reflection of the students creativity,hidden talent achievements is the epitome of the magazine."My best greetings to students of EEE".I take the oppurtunity to thank all the contributors as their contribution is the reason that makes this magazine endearings with our readers.

Chief Editor
Mr.G.Anil Kumar
Assistant Professor

Messages from...

My best wishes for releasing the technical magazine "ELECTRAGE-2K23" which brings the students to share and display their ideas and creative talents. I wish all the students who have involved in bringing out the magazine for their greater success and carrer ahead, and also I wish you all the best along with each step of your journey. Think rationally and go after your dreams.

Treasurer
Mr.N.Bala Krishna
Assistant Professor

I praise all the editorial members for their persistent efforts for the department magazine "ELECTRAGE-2K23".My commendation to the students who immensily contributed to the literary articles.I wish you all the very best for your future.

Literary Editor
Mr.S.Subrahmanyam,
Assistant Professor

The global employment market has changed from what it was even a decade ago.Organizations are not only looking for individuals with a prescribed skill set but more importantly individuals with an aptitude to expand this required skill set in the course of their work.Department of Training and Placement arranges and coordinates various programs that aim at molding the students so as to meet the industry expectations in career building and in turn bring laurels to the institution.

Placement Officer
Dr.B.Vijaya Krishna
Assistant Professor

ELECTRAGE 2K23 EDITORIAL MEMBERS (FACULTY)

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Dr.ShaikNazeer PRINCIPAL

PRESIDENT

Dr.G.Ravi Kumar PROFESSOR & HOD

CONVENER

Dr.N.Rama Devi PROFESSOR

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JOINT SECRETARY

M.Akhil Srinivas 3/4EEE-A

ADDITIONAL JOINT SECRETARY

N.JayaSree 2/4 EEE-B

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SK.Hasan	4/4 EEE-B
G.V.Sai Charan	3/4 EEE-A
N.Sunil Kumar	3/4 EEE-B
B.Rupesh	2/4 EEE-A
N.Chaitanya	2/4 EEE-B

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A.Mani Kishore	3/4 EEE-A	K.Amar Phani Teja	2/4 EEE-B

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(AUTONOMOUS)
DEPARTMENT OF EEE
STAFF

ALUMNI

Ankith Royal Gunturu
Relationship Manager (SME)
State Bank of India

Bapatla Engineering College, Dept of Electrical and Electronics Engineering has been an integral part in grooming me to become the person I am. The sophisticated infrastructure accompanied by highly intellectual and supportive faculties made my learning journey memorable for the lifetime. The Department has provided a great platform for learning and enriching our knowledge. Faculties' cordial reception was instrumental in arriving at a conclusion for many complex concepts. The faculties have done a splendid job by inculcating the ability in me to learn and build the strong foundational knowledge. The cultural activities and workshops held in the Department is a platform that gave us an opportunity to grow academically and personally. Strict adherence to discipline protocols in the department is a significant initiative that has helped in orientation of lifestyle. I earnestly believe that it is the extraordinary people at Dept of EEE who make it destined for greatness .While pursuing final year of my B.Tech in 2013, I was placed in campus at Tata Consultancy Services. Having worked as Asst Systems Engineer for 2 years, I have put down papers to TCS. I've secured job in State Bank of India as Probationary Officer in 2015 and eventually elevated as Manager . I profusely thank each and every member of Faculty at BEC, Dept of EEE and I'm always indebted for their significant contribution to my career .With this short note, I urge each and every student out there reading these few lines to make best use of invaluable faculty members & other resources and strive hard with full potential to meet your career goals. Wish you all the very best !

ALUMNI

SRINIVAS RAYANI
MANAGER
Nexer Group
Hyderabad

It gives me immense pleasure to share my professional journey with you. I am currently working in Nexer Group as a Software Associate Manager, Hyderabad. Also, I am the founder of "Way2Dynamics", which is a Software Training Institute.Here at our institute, we offer a range of courses and programs designed to help students learn and master various software technologies, programming languages, and development frameworks, cloud technologies. Fourteen years ago in 2009 , I stepped into Bapatla Engineering College to earn a degree of Bachelor's Technology in Electrical and Electronics Engineering to enrich my education. I must say it was my best decision, I ever made so far, to choose BEC. My Belief is "First Believe in yourself and then Believe in the institution". Friends, always welcome difficulties and challenges in your life. These make us stronger, better and gives us an opportunity to get the best inside us.My juniors, I advise you to do Justice with your time when it's time to enjoy college life, live it to the fullest so does for your studies. You have to choose first horse among the: Skill, Luck and Mercy in the race of your professional life because only first one will be with you forever, but to ride this, you must gain the ability with passion and dedication. This is the right time for you. Imagine your future,think BIG and live it in present because one day your future will be your present.

PLACEMENTS

Still counting....

S.no	Regd. No	Name of the Student	Company	Package (in lakhs)
1	L20AEE451	Abhisek Kumar	Care Monitor	5.5
2	L20AEE451	Abhisek Kumar	KJ Systems Pvt Ltd	4.5
3	L20AEE505	S Yadagiri	Toshiba	4.5
4	L20AEE455	B Leela Sai Ram	Toshiba	4.5
5	Y19AEE423	M Jaswanth Reddy	Hexaware	4
6	L20AEE513	U Venkata Sai Kumar	Hexaware	4
7	Y19AEE423	M Jaswanth Reddy	Thundersoft	5
8	L20AEE595	P Vidya	TCS	3.36
9	L20AEE514	Vendra Naveen	TCS	3.36
10	L20AEE467	G Abhilash	TCS	3.36
11	Y19AEE422	M Sai Sandhya	TCS	3.36
12	Y19AEE437	V Manikanta	TCS	3.36
13	L20AEE508	SK Hasan	TCS	3.36
14	Y19AEE423	M Jaswanth Reddy	TCS	3.36
15	L20AEE486	M Aneesh	TCS	3.36
16	L20AEE511	T Bosu babu	TCS	3.36
17	L20AEE500	P Venkata Sivaji	surya tech solutions	2.26
18	L20AEE459	D Teja	surya tech solutions	2.26
19	Y19AEE402	A Leela Venkata	surya tech solutions	2.26
20	L20AEE481	G Abhinash Reddy	surya tech solutions	2.26
21	L20AEE488	K Siluva Raju	surya tech solutions	2.26
22	Y19AEE409	M Prasanth Kumar	surya tech solutions	2.26
23	L20AEE496	Ch Venkata Dhanush	surya tech solutions	2.26
24	Y19AEE403	P Ganesh	surya tech solutions	2.26
25	L20AEE480	B Sri Hari	surya tech solutions	2.26
26	L20AEE492	K Raja Sekhar	surya tech solutions	2.26
27	L20AEE469	N Anil Kumar	surya tech solutions	2.26
28	L20AEE453	A Y N S D S Manikanta	surya tech solutions	2.26
29	L20AEE479	K Sri hari	surya tech solutions	2.26

Winners Of Technical Events-2k23

Technical Seminar:

1.K.Amar Phani Teja	2/4 EEE-B (1st prize)-L22AEE511
2.N.Vijaya Rama Raju	2/4 EEE-B (1st prize)-L22AEE513
3.K.L S S Mallika	2/4 EEE-B (2nd prize)-Y21AEE449
4.V.Mallika	2 /4 EEE-B (2nd prize)-Y21AEE483

Technical Quiz:

1.P.Prasad	3/4 EEE-B (1st prize)-L22AEE427
2.A.Yernaidu	2/4 EEE-A (1st prize)-L22AEE507
3.D.Goutham	2/4 EEE-A (1st prize)-L22AEE509
4.G.Abhinash reddy	4/4 EEE-A (2nd prize)-L20AEE469
5.P.Dinesh Kumar	3/4 EEE-B (2nd prize)-Y20AEE463
6.J.Raju	2/4 EEE-A (2nd prize)-Y21AEE440

Think-O-link:

1.G.Ruchitha	2/4 EEE-A (1st prize)-Y21AEE431
2.G.Srivalli	2/4 EEE-A (1st prize)-Y21AEE432
3.M.Mahesh	2/4 EEE-B (2nd prize)-L22AEE500
4.I.Rohit	4/4 EEE-A (2nd prize)-Y18AEE417

Model Presentation:

1.N.Ajay Kumar	4/4 EEE-B (1st prize)-L20AEE493
2.Y.Sateesh	4/4 EEE-B (1st prize)-L20AEE515
3.K.Shankar Rao	4/4 EEE-B (2nd prize)-L20AEE483
4.K.Shankar Raja	4/4 EEE-A (2nd prize)-L20AEE480

Circuit Debugging:

1.V.Surendra	3/4 EEE-B (1st prize)-L21AEE424
2.S.Radha Krushna	3/4 EEE-A (1st prize)-L21AEE434
3.K.Amar Ohani Teja	2/4 EEE-B (2nd prize)-L22AEE511
4.N.Vijaya Rama Raju	2/4 EEE-B(2nd prize)-L22AEE513

Cricket

Winners (3rd Year's)	Runners (4th year's)
Prasad	Sai
Praveen	Chaitanya
Aravind	Teja
Bhanu	Madhu
Pavan	Shankhar rao
Johny	Manikanta
Rambabu	Saikumar
Srinu	Shankar
Dinesh	Bosubabu
Tajuddin	Narsimha
Ramanjaneyulu	Vamsi

Throw Ball

(Girls)

Winners	Runners
M.N.Margarate	CH.Swathi
V.Bala Bhargavi	R.Ramya
K.Pallavi	SD.Asfiya
SD.Azmatunnisa	S.Sai vijaya lakshmi
J.Malleswari	S.Venkata mahija
G.Likitha Mani	M.Lakshmi chaitanya
CH.Susmitha	P.Indhumathi
SK.Farheen	V.Sravani

Carroms

Winners

Y.Venkatesh Naik
M.Mahesh

Runners

K.Amar Phani Teja
N.Vijaya Raju

Chess

Winners

P.V.Chaitanya
G.Vanaja

Runners

S.Narshima
M.Hemanjani

ACHIEVEMENTS

(2022-2023)

1.A.Sai ManiKanta-L20AEE453
Paper Presentation-SRK Vijayawada-2nd prize

2.Ch.Marfi-L20AEE457
Paper Presentation-SRK Vijayawada-2nd prize

3.Ch.Marfi-L20AEE457
Quiz-SRK Vijayawada-1st prize

4.A.Sai ManiKanta-L20AEE453
Quiz-SRK Vijayawada-1st prize

5.Ch.Marfi-L20AEE457
Technical Seminar-BEC Engineers Day-1st prize

6.Shaik Hasan-L20AEE508
Technical Seminar-BEC Engineers Day-2nd prize

7.P.Jahnavi-Y20AEE462
Group Discussion-BEC Engineers Day-1st prize

8.Shaik.Hasan-L20AEE508
Group Discussion-BEC Engineers Day-2nd prize

contd...

9.M.Aneesh-L20AEE486
Technical Quiz-BEC Engineers Day-1st Prize

10.I.Rohit-Y18AEE417
Technical Quiz-BEC Engineers Day-1st Prize

11.K.Sreenu-L20AEE409
Technical Quiz-BEC Engineers Day-1st Prize

12.M.Venkata Vamsi-L20AEE487
Technical Quiz-BEC Engineers Day-2nd Prize

13.D.Ruthvik-L20AEE460
Technical Quiz-BEC Engineers Day-2nd Prize

14.G.Alekha Varaprasad-L20AEE465
Technical Quiz-BEC Engineers Day-2nd Prize

15.S.Yadagiri-L20AEE505
Circuit Debugging-BEC Engineers Day-1st Prize

16.N.Sunil Kumar-Y20AEE453
Circuit Debugging-BEC Engineers Day-2nd Prize

contd...

17. V.Manikanta-Y19AEE437
Quiz-VIVA VVIT-1st prize

18. N.Sunil Kumar-Y20AEE453
Circuit Debugging-BECTAGON 2K23-1st Prize

19. S.T.Murthy Babu-L22AEE504
Circuit Debugging-BECTAGON 2K23-2ndPrize

20. S.Srinivasarao-L21AEE415
Circuit Debugging-BECTAGON 2K23-3rd Prize

21. G.V.Satyanarayana-L21AEE435
Circuit Debugging-BECTAGON 2K23-3rd Prize

22. V.Vinay Kumar-L21AEE418
Think-O-Link-BECTAGON 2K23-1st Prize

23. Sk.Galib Shareef-L21AEE417
Think-O-Link-BECTAGON 2K23-1st Prize

24. V.Surendra-L21AEE424
Think-O-Link-BECTAGON 2K23-2nd Prize

contd...

25.S.Radha Krishna-L21AEE434
Think-O-Link-BECTAGON 2K23-2nd Prize

26.S.Naga Ganesh-L21AEE416
Think-O-Link-BECTAGON 2K23-3rd Prize

27.Reddy.Upendra-L21AEE430
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"As we say goodbye,you shall be waving hello to new opportunities in your upcoming life, and we wish you all the best for that....."

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ELECTRIC VEHICLES

INTRODUCTION TO ELECTRIC VEHICLES:

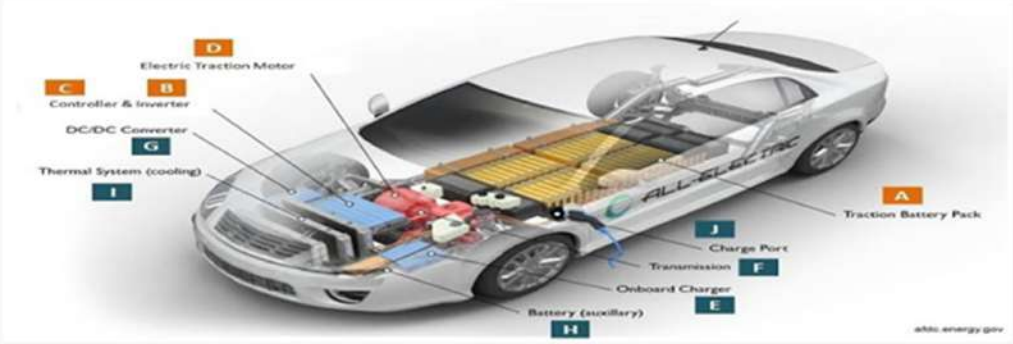
EV's are considered as the likely replacement of ICE vehicles in the future of transportation. Electric vehicles have low running costs as they have less moving parts for maintaining and also very environmentally friendly as they use little or no fossil fuels(petrol or diesel).

Working of the EV's:

The Electric cars work on the principle of transforming electric energy into mechanical energy, which is then used to obtain kinetic energy and enable motion in a vehicles. EV's feature an electric motor instead of a conventional fuel engine. The electric motor gets energy from a controller, the controller takes power from the batteries and delivers it to the motor. The accelerator pedal hooks to a pair of potentiometers (variable resistors),and these potentiometers provide the single that tells the controller how much power it is supposed to deliver. The controller can deliver zero power (when the car is stopped),full power(when the drives floors the accelerator pedal), or any power level in between.

Parts of the EV's:

1.Battery 2.Charge port 3.DC/DC converter
4.Electric traction motor 5.Power Electronics controller
6.Thermal system(cooling) 7.Transmission(electric)



Types of EV's:

1.Battery Electric Vehicles(BEV)
2.Hybrid Electric Vehicles(HEV)
3.Plug-in Hybrid Electric vehicles(PHEV)
4.Fuel Cell Electric vehicles(FCEV)

Advantages of EV's:

1.Lower running costs
2.Easy to Drive
3.Tax and financial benefits
4.Convenience of charging at home
5.Low maintenance costs
6. No fuel, no emissions
7.Better performance
8.no sound

Conclusion:

Every day are new things that make our life better,faster ,healthier environment with the help of the technologies.at preset the concept has been put in to maximum utilization by electric vehicles manufacturing , is important to have efficiency and conserve the energy. the electric vehicles are quiet produce no exhaust emission and are very efficiency.

Marketing of such products will really play an important role as a stepping foot towards greener environment. There are various challenges includes financial,technical,challenges for development of EV's. charging stations can be increased once the sales of EV's increase.

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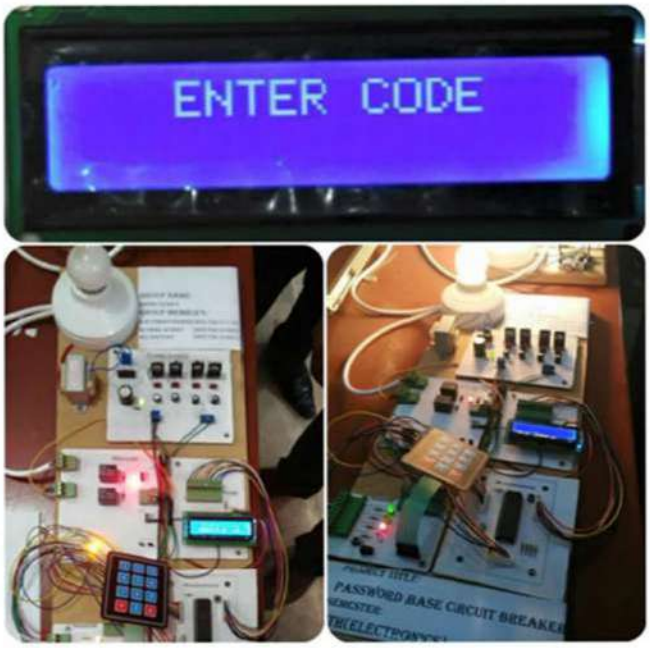
PASSWORD BASED CIRCUIT BREAKER

A password based circuit breaker is an electronic device that is designed to prevent unauthorized access to electrical circuits by requiring a passwordto be entered before the circuit can be activated. This type od circuit breaker is commonly used in industrial settings where safety and security are paramount.

The password based circuit-breaker works by using a microcontroller and a keypad. The user must enter the correct password into the keypad in order to activate the circuit. If the wrong password is entered, the circuit will not activate, and an alarm may sound to alert the user to unauthorized access attempt.



One of the main advantages of using a password-based circuit breaker is that it provides an extra layer of security. By requiring a password to be entered before the circuit can be activated, it helps prevent accidental or intentional damage to the circuit, which can result in costly repairs or even injury to person. Another advantage of a password-based circuit breaker is that it can be easily customized to meet the specific needs of the user. For example, different passwords can be set up for different users, and the device can be programmed to log each access attempt, providing an additional level of accountability.

In conclusion, password-based circuit breakers are an effective way to enhance the security and safety of electrical circuits. They provide an extra layer of protection against unauthorized access, and can be customized to meet the specific needs of the user. If you're looking to secure your electrical circuits, a password-based circuit breaker may be a wise investment.

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HARNESSING SOLAR ENERGY

Meeting the world's ever-growing energy demands in an environmentally responsible and sustainable manner is one the issues facing by today's generation. Solar energy is an abundant, clean, safe and free resource, providing approximately 1,000 watts of power per square meter to Earth's surface every day.

How can we most effectively capture, convert and store this tremendous natural resource?

One of the first technologies that come to mind when discussing solar energy is the growing use of solar cells, also known as photovoltaic cell, which convert sunlight directly into electricity. Solar cells are silent, non-polluting and long-lived devices that typically convert 10 to 15 percent of the energy received into energy that can be used.

They are not the only way to get electricity from solar energy, though. Sunlight can also be intensely focused onto a small area, using concentrators such as an array of mirrors or lenses to heat water and create steam. High-pressure steam can be driven through a turbine to generate electricity.

There are at least two other ways to store solar energy for use later. The sunlight can be stored in the heat capacity of a molten salt (the liquid form of an ionic compound like sodium chloride) at a high temperature. When electricity is needed later, heat is transferred from the molten salt to water, using a heat exchanger to generate steam to drive a turbine.

A second method of harnessing and storing solar energy is to employ sunlight to produce a fuel. For example, a photo electrochemical cell uses solar energy to split water into hydrogen and oxygen gases, which can be stored as fuels. These gases are then recombined to generate electricity in a device known as a fuel cell. An attractive feature of this approach is that the byproduct of the fuel cell reaction is simply water.

While many of the technologies described here are in use on a small scale today, we must continue to develop innovative methods of storing solar energy and promote sustainable energy policies that benefit generations to come.

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THE FUTURE OF POWER IN INDIA

India, with its booming economy and humongous population of over 1 billion, has always faced shortage of energy. Even though the country is among the largest producers of electricity in the world, it is hardly ever able to meet the electricity requirements of its ever-so-rapidly increasing population. At present, almost 53% of India's energy requirements are met with coal; going by the predictions, the coal reserves of the country will not last beyond 2050. It is common knowledge that over 72% of the population of this third world country still resides in villages, with only about half of its rural population getting access to electricity. It is high time India moved to renewable ways to feed its population its fair-share of electricity.

1. MICROGRIDS WILL IMPACT THE ENERGY MARKET ARYA K S S8 EEE

Imagine customers who decide to take control of their energy destinies by installing a combination of distributed energy resources (DERs). DERs can include solar, wind, batteries, combined heat and power (CHP), fuel cells, and more. These elements can be combined to form a microgrid, giving customers the capability to isolate themselves from the electric grid. If the power grid goes dark for any reason, microgrids can keep facilities operating. When properly designed, microgrids can help deliver costeffective, reliable, relatively clean power. These qualities are immensely important for facilities that must operate around the clock, such as hospitals, data centres, airports, manufacturing plants, or wastewater treatment facilities—and the list is growing.

The proliferation of microgrids will have a huge impact on how the energy market works both for those that use microgrids and those that don't. The growth of microgrids has the potential to create a have/have-not situation in energy, as those without microgrids could face higher costs and more disruption, while those with microgrids will have access to reliable power, even if the electrical grid experiences problems.

2.SOLAR ENERGY

India, with its booming economy and population of over 1 billion and still counting, has always faced shortage of energy. Even though the country is among the largest producers of electricity in the world, it is hardly ever able to meet the electricity requirements of its ever-so-rapidly increasing population. At present, almost 53% of India's energy requirements are met with coal; going by the predictions, the coal reserves of the country will not last beyond 2050 [coal power plant]. It is common knowledge that over 72% of the population of this third world country still resides in villages, with only about half of its rural population getting access to electricity. It is high time India moved to renewable ways to feed its population its fairshare of electricity.

Solar energy has emerged as the most viable and environment-friendly option for India to cater to the energy requirements of one and all— including the 50% of its rural inhabitants who still live without electricity.

3. WIND ENERGY

Wind energy is affordable. As wind generation agreements typically provide 20-year fixed pricing, the electric utility sector is anticipated to be less sensitive to volatility in natural gas and coal fuel prices with more wind. By reducing national vulnerability to price spikes and supply disruptions with long-term pricing, wind is anticipated to save consumers $280 billion by 2050. Wind energy reduces air pollution emissions. Operating wind energy capacity avoided the emission of over 250,000 metric tons of air pollutants, which include sulphur dioxide, nitric oxide, nitrogen dioxide, and particulate matter, in 2013. By 2050, wind energy could avoid the emission of 12.3 giga tonnes of greenhouse gases.

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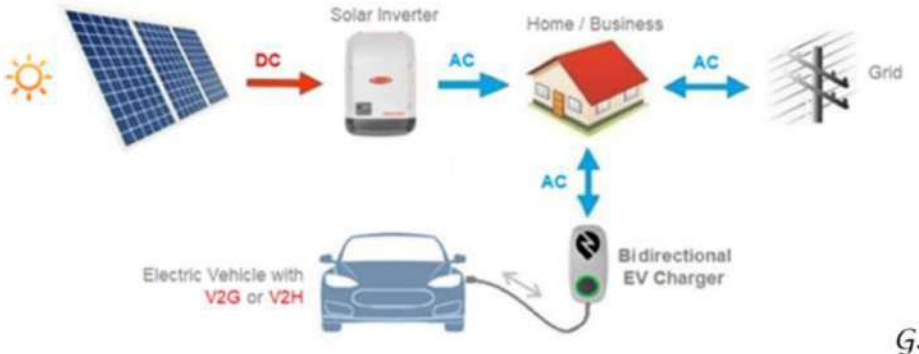
Vehicle to Grid (V2G)

vehicle to grid (V2G) allows EV owners to use the excess energy stored in the EV battery to power homes and buildings when the car is not being used, reducing the use of grid energy and providing a source of income for EV owners. This technology works by sending the excess energy stored in the EV battery back to the electrical grid, which can then be used by other customers. Customers with a compatible vehicle and charger can charge during the day from their own solar or by using cheaper daytime energy from the grid, and then export some of that energy back to their home or the grid to offset usage at peak times.

There are many benefits of V2G technology, including: Reducing the demand on the electrical grid during periods of peak usage, which helps to reduce the risk of blackouts and brownouts .Reducing the costs of energy for EV owners by allowing them to use their excess energy to power their homes, and then recharging from cheap day time energy.Reducing the overall carbon footprint of the electrical grid by reducing the need for energy from fossil-fuel powered generators .The availability of new and improved EV models, and a reduction in upfront costs, is resulting in an increased uptake and popularity of EVs and helping to drive the development of new and improved V2G technology.The shift towards EVs and enabling vehicle to grid technology is an important step towards a more sustainable and eco-friendly future. V2 G technology will help to reduce the demand on the electrical grid, reduce energy costs, and reduce the overall carbon footprint.



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Dreams of pretty little girl

Ammu was a little girl with big dreams. She lived in a small village in India with her parents and two younger siblings. Her father was a farmer, and her mother was a homemaker. Despite the challenges of growing up in a rural area, Ammu was determined to make something of herself.

From a young age, Ammu loved to learn. She would spend hours reading books and asking her parents questions about the world around her. Her thirst for knowledge was insatiable, and she was always eager to discover something new.

As she grew older, Ammu began to realize that her opportunities were limited in her small village. She knew that if she wanted to achieve her dreams, she would need to leave her home and go to a bigger city.

With the support of her parents, Ammu moved to the city to attend school. She was excited to be in a new environment and to have access to better resources. However, she quickly realized that the city had its own set of challenges.

Ammu was often teased by her classmates for her rural accent and lack of sophistication. She struggled to keep up with the pace of the lessons, and she often felt like she didn't belong.

Despite these challenges, Ammu persevered. She worked hard in school and spent countless hours studying and practicing. Slowly but surely, she began to improve.

One day, Ammu's hard work paid off. She won a prestigious scholarship that would allow her to attend college. Her parents were overjoyed, and Ammu was thrilled to have the opportunity to continue her education.

Over the next few years, Ammu worked tirelessly to earn her degree. She faced many obstacles along the way, but she never gave up. She knew that her hard work would pay off in the end.

After graduation, Ammu landed a job at a top company in her field. She was thrilled to have the opportunity to put her education to use and make a real difference in the world.

Looking back on her journey, Ammu realized that it was her determination and hard work that had led her to success. She knew that if she could achieve her dreams, anyone could. And she was determined to inspire others to never give up on their own dreams, no matter how impossible they may seem

Written by
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Talking toaster riddle.

Once upon a time,in a land far far away,there was a magical talking toaster that could talk.Yes,you heard that right,a toaster that could talk! One day,a curious boy named Timmy stumbled upon the talking toaster while exploring the forest.Timmy was so shocked to hear the toaster speak that he dropped his peanut butter and jelly sandwich,which landed right in the toaster's slot.

"Hey,what are you doing?"the toaster exclaimed."I'm not a trash cap!" I'm sorry,I didn't mean to put my sandwich in you,Timmy said apologetically."it's okay, I forgive you," the toaster said kindly.`"But if you want me to give your sandwich back,you're going to answer a riddle."

"A riddle?"Timmy asked,confused."Yes a riddle.Here it is:What has a heart that doesn't beat?"Timmy thought hard far a moment, but he couldn't come up with an answer.

"I give up",he said.The toaster chuckled."The answer is atichorke,of course!But don't worry,I'll still give you your sandwich back."

Suddenly, the toaster popped out Timmy's sandwich,but it wasn't just any sandwich.It had transformed into a giant peanut butter and jelly monster! The monster sandwich started chasing timmy through the forest,leaving a trail of peanut butter and jelly everywhere. Timmy ran as fast he could,but the sandwich was gaining on him. Just then Timmy thought he was done for,he remembered something his grandma had taught him."If you ever encounter a monster,just offer it a snack."she had said.Timmy quickly pulled out a bag of potato chips from his pocketand held it out to the monster sandwich. To his surprise,the monster sandwich stopped chasing him and started eating the chips instead.Phew,Timmy thought to himself.That was close.He thanked the toaster for his sandwich and ran all the way back home,where he told his family about his crazy adventure with the magical talking toaster and the peanut butter and jelly monster. From then on,Timmy always kept a bag of potato chips in his pocket,just in case he ever ran into any more hungry monsters.

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ALWAYS DEVELOPING COUNTRY

Beginning

A small kid and his grandpa walking on a seashore the kid run towards to fisherman, the fisherman is busy in his work separating fishes,prawns and crabs from the net then that kid asked his grandpa why lower crabs pulling down upper crab in the basket. Grandpa replies "likeour humans, they don't come up and they don't let others either"later grandpa deeply thinking about this society flaws, On that night that small kid irritating his grandpa to tell why people are compared with crabs? Then grandpa starts narrating the story.

" A HARMFUL CIGARETTE"

In early 1980's there is a village named as SIRIPURAM.In that village there lived a small family ofRamarao with his wifeRajyalakshmi andson Ramesh. Ramarao is a farmer,Rajyalakshmi is a homemaker and Ramesh finished his intermediate studies but he is much interested in farming so he decide to start farming with his father. Everything is going good but one fine day the villagers becomes abnormal and fallen illand some are suffering with cancer because of consuming cigarettes. Ramesh worried about his father Ramarao because he is addicted to cigarettes. His worry about his father increasing day by day,then he got an idea. Why the Healthy cigarettes are not available?. "Like a cigarette which doesn't cause any cancer". Ramesh starts to make a cigarette which doesn't harm to health.After so many attempts he made a cigarette for his father. It give same feel as original cigarette and it is not harmful too. He also gave those cigarettes to his villagers and it became very popular in his village as well as his surrounding villages. Because of this cigarettes the normal cigarettes consumption is decreases gradually. The popular ITC company warns Ramesh to stop his cigarettes and he also received many warning letters but he doesn't care about it. After some days Ramesh and his cigarettes are disappeared but nobody knows what happened to Ramesh till now..

"Long lasting battery cell"

In 1990a person named as Karthik living with his parents. His parents runs a hotel to live Karthikis student of 20 years old,He loves to listen songs very much .In early 1990's there was a gadget named as Walkman it is nothing but the older version of IPOD. Karthik saves his six months pocket money to buy Walkman he felt very happy when listening song through Walkman. But here the problem is decreasing in the lifespan of battery cell less than a week on usage, this Walkman requires 2 batteries per a week.The price of each battery is 6.50 rupees so he requires 13 rupees for every week to consume the batteries which is very expensive for him Walkman has been stopped working due to the lack of battery cell. Karthik is addicted to Walkman so he makes a plan to stole the batteries from the shop.

He went to a shop and asked a battery cells after that he stolen the batteries andran away from shopkeeper without givingmoney. After a week Karthik again faced the same situationthis time he tried to stole money from his parents hotel but catched by his father he got punished from his father badly. Karthikparents are very sad about that. He realized his mistake and decided to stop using of Walkman but he can'tFM radios, television songs always attracting so he decided to make a own battery cell . After so many trails he made a battery cell whose lifespan last for 6 months.Hisparentsare very proud about him and encourage him to do more batteries. His fathers sales those battery cells in their hotel proudly.. slowly the batteries became popular but other battery companies sales becomes down some battery cell companies ask to join their company but Karthik has other plans to have his own company but Karthik passed away early…

"WATER ENGINE"

In the Year 2000petrol price increased days. A BTECH student named Akhil is from a middle class family he has a dream to have his own bike he asked his parents for a bike but due to financial issues Akhil parents couldn't afford it. One day one of his friend named Surya has bought a new bikeand Akhil asked him for a ride but Surya insulted him badly for not having a own bike to Akhil those words hurts him a lot so he asked his parents to buy at least a second hand bike , as Akhil's wish his parents bought a second hand bike. But Akhil didn't expected that maintaining bike is very difficult but not easy as buying it all his pocket money is afforded to bike petrol and also sometimes due to the lack of petrol the bike stopped while travelling on the road for many times. Akhil thought he can't maintain a bike. His friends said that petrol in not a water and u can't maintain it. Then Akhil gets a idea why bikes are not running with water. He want to change his vehicle to petrol to water engine ,he started working on it and he decided to make a trail on his own bike he also taken suggestions from his college faculty. It took him a year to invent a water engine after that invention he become very popular and he wanted his invention to be useful to the society but some people has taught that this invention can make a impact on Indian financial economy due to the reduction of tax payments on petrol by using this water engine, he fight against a lots of people but after somedays he passed away mysteriously ..
Finally ,grandpa said this is the reason why I compare people with crabs.

MORAL OF THE STORY:

If this inventions are made in this country then this will not be a developing country ,may be it can be a developed country.

Written By
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THE BEAUTY BEHIND LOVE

In a Industrious occupied city there lived a wife and husband in a delighted and joyful home who were leading their lives happily and creating memories and cherishing their lives .They show up great love towards each other.In a mean while husband got transferred for a distanced city.The wife gave a sorrowful sendoff to her husband and leading her life alone. Suddenly one day wife got affected with dangerous disease named "Pemphigus Vulgaris" which leads to depletion of skin and face. Rapidly,the wife's face turns ugly and the glow of her face got diminished .She was worried about her face and frightened thoughts like "How can I show my face to my husband?" "Will he stay with me after seeing my unattractive and distressed face" "What if he leave me?" took place and filled her brain with these thoughts and got mentally weak.

After a long time while her husband returns to home suddenly he met with a road accident . She got a call from hospital that her husband admitted in hospital .She was shocked and deeply depressed on seeing her husband on the hospital bed in a critical condition.On the other hand she felt somewhat happy as her husband can't see her unattractive and unpleasant face and as well as he can stay with her. Later sometime doctor revealed the truth that her husband lost his vision and both eyes in road accident,Later some days husband got discharged and they were back to home. Months passed and she slowly accepting the truth that her husband can't see her face and became normal and they were happy together like before .One day on following daily routines she got in a hurry and suddenly she felt from upstairs and got heavily injured head and admitted in hospital.She left her husband and the world.After hearing the death news of her wife he thrown himself mentally and collapsed right away where he was standing. On realizing that his wife won't come back he accepted the truth and started living alone.One day he was visited by his friend and he was still living alone in his house,His friend asked '"How you been pulling the things off ?" without her you can't see how can you lead your life? He replied with a mild smile" I am not blind I'am just acting like a blind one."WHY ?" asked by his friend,Then he said,to remove the guilt and fear of my wife to face me and showing her face to me,I wanted to remove her fear and wanted to tell her that,**"Love don't need beautiful face but all it needs is a beautiful soul"**.

He remained blind for rest of his life .LOVE itself is a moral because it ends up with teaching lessons ,like he learnt to accept her disease and love her beyond the beauty,like she learnt to accept his blindness and loving back him beyond the flaws.

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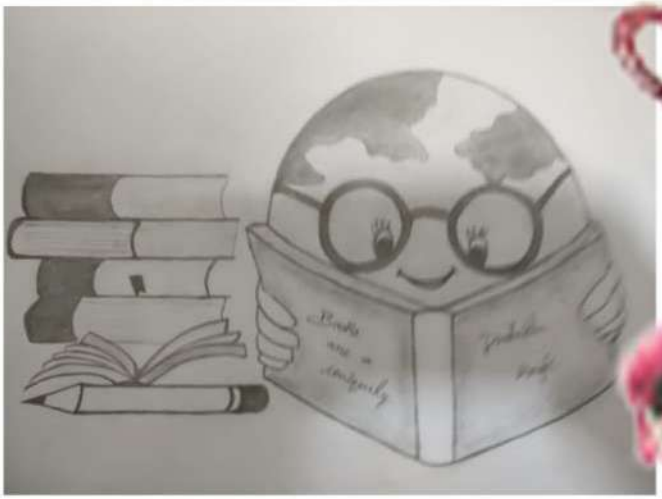

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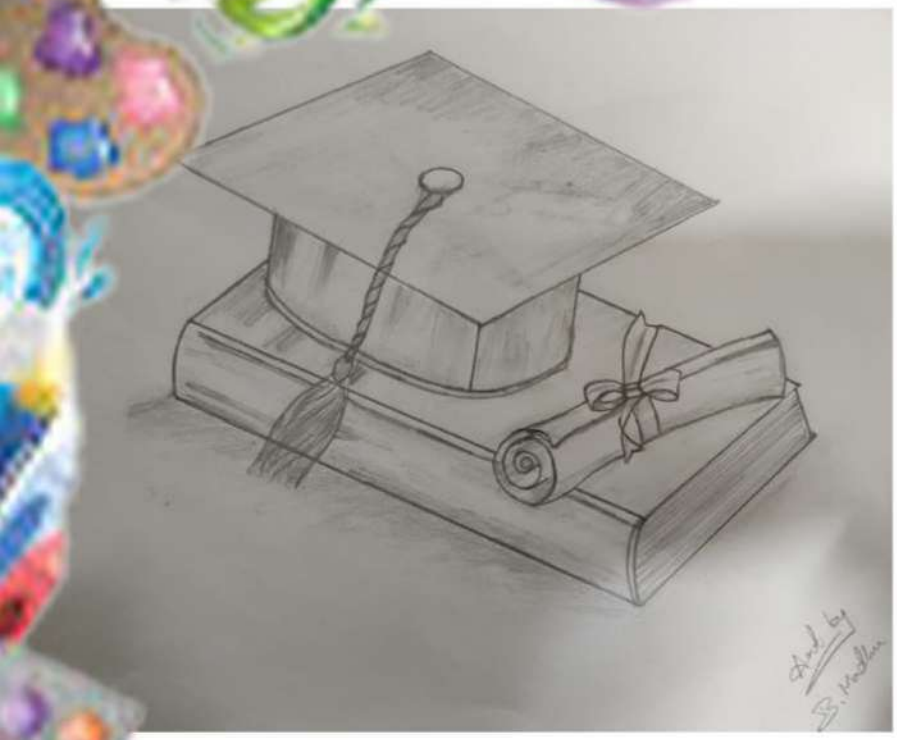

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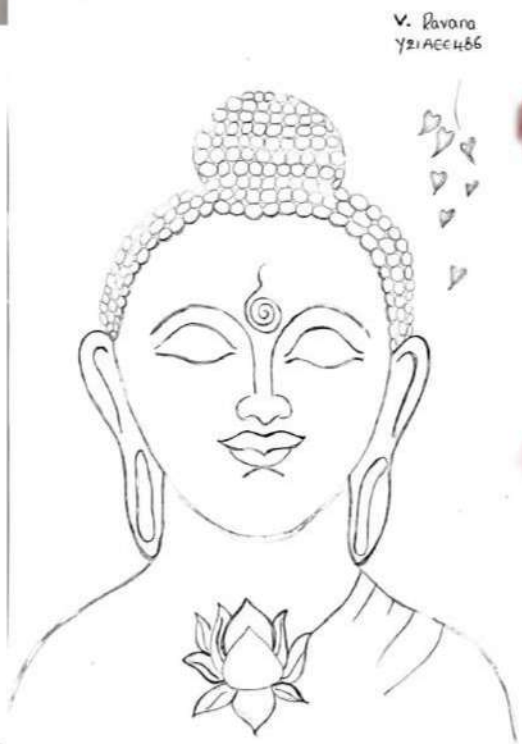

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K.Pallavi

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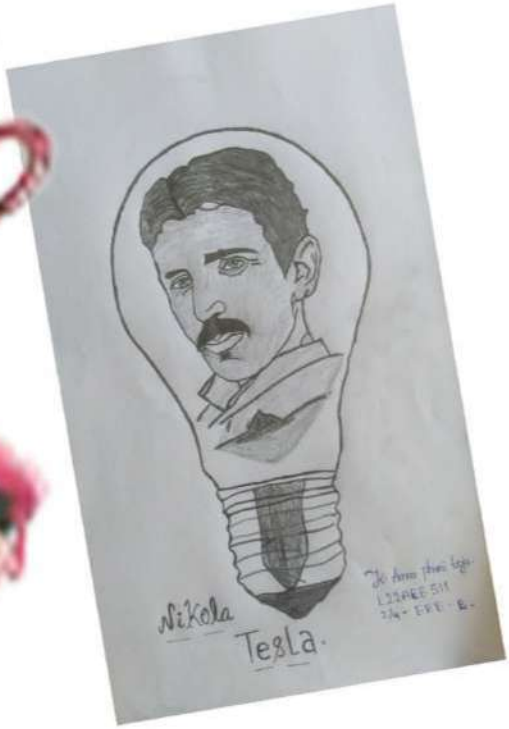

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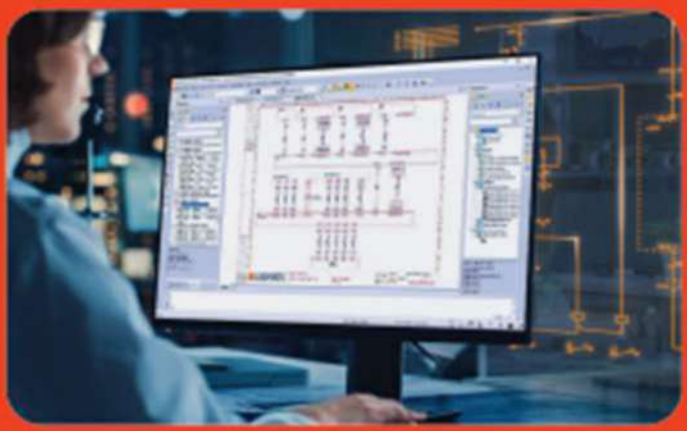

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