



ROHINI

COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

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RONIX 2K24

ANNUAL MAGAZINE

2023-24

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

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Address:

ROHINI College of Engineering & Technology
Near Anjugramam Junction, Kanyakumari Main Road,
Palkulam, Kanyakumari - 629 401 Tamilnadu, India

Phone: 04652 - 266665 Email: admin@rcet.org.in. Website: www.rcet.org.in

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MESSAGES

FROM THE DESK OF THE CHAIRMAN, RCET



“Learning gives creativity, creativity leads to thinking, thinking provides knowledge, knowledge makes you great” - Dr.A.P.J.Abdul Kalam.

These words by - Dr.A.P.J.Abdul Kalam perfectly describe our aim at Rohini College of Engineering and Technology. Our aim is to teach students to LEARN, not just STUDY. Hence, we strive to travel beyond the boundaries of mere books.

I can proudly say that Rohini College of Engineering and Technology is the most modern and sophisticated multidisciplinary institution, imparting quality education and providing a wide and varied arena for the staff and students to showcase their academic and extracurricular talents.

RCET has made a tremendous progress in all areas crossing several milestones within a very short span of time. I feel happy to know that the students and faculty of ECE department of RCET bringing out the technical magazine RONIX 2k24.

The role of a department magazine is therefore vital in promoting what an institution offers. It brings out into the open things hitherto unrevealed. It brings to light the names of the unsung heroes and their mighty deeds.

I am proud to say that once our students step in RCET, they step out with self-confidence and knowledge to face all future endeavors with full conviction. Fly in the plane of Ambition, Land in the Airport of Success, the luck is yours the wish is mine. May your future always shine. Good Luck.

Cordially,
Shri.K.NEELA MARTHANDAN
Chairman Rohini Groups

PRINCIPAL'S MESSAGE



Dear All,

It gives me an immense pleasure to note that Department of Electronics and Communication Engineering of ROHINI College of Engineering and Technology is bringing out the Magazine 'RONIX2k24'

Dear All, it gives me great pleasure, as a Principal of this college, to say a few words about Rohini College of Engineering and Technology. Any Institution, if it aims at reaching greater heights, needs to have clearly spelt Vision and Mission. Our college has set its Mission as to impart Quality Education to all the people, thereby developing the nation as a whole. UGC has conferred the Autonomous Status to the college starting from the academic year 2024-2025 for a period of 10 years.

Our long term vision being to achieve greater heights in the field of education by providing an opportunity to each and every individual to choose the right path, realize the value of education and achieve their goals by adding values through quality education. We give more emphasis to the overall molding of every student through quality education and In-plant training, right from the initial stage of education. The pleasing and peaceful environment in which the college is located, favors the students in focusing more on their studies. Well-equipped laboratories and work shop with most modern and sophisticated instruments/machineries are provided to impart state-of-the-art education to the students. Ample opportunities are being provided to the students in Personality Development and other extracurricular activities.

The placement cell has a vital role in placing the students in the reputed companies. With all these facilities in place and with the right attitude of the Management, The students who continue education in this esteemed Institution would be greatly benefited in future.

Each issue of this News letter is a milestone that marks our growth, unfolds our imaginations, and gives life to our thoughts and aspirations. My heartfelt Congratulations to staff members and Students for their fruitful effort. Best Wishes.

Best Wishes,
Dr. R. RAJESH, M.E., Ph.D.
Principal, Rohini College of Engineering
& Technology Palkulam,
Kanyakumari

HOD'S MESSAGE



Dear All,

It is a matter of great joy and pleasure to note that the Department of Electronics and Communication Engineering is going to publish the Magazine “RONIX 2k24” reckoning the various activities and achievements of our faculty and students.

The department offers excellent academic environment with a team of highly qualified and dedicated faculty members to inspire the students to develop their technical skills and inculcate the spirit of team work in them. In keeping with the department’s vision, the holistic development of the students is engrossed upon that inspires a habit of continued learning and a sense of responsibility in them to contribute towards the benefit of the society. This Magazine unleashes a wide spectrum of creative skills ranging from writing to editing and even in designing the Magazine.

I extend my heartfelt greetings to Editorial board, all authors, report writers, faculty staff & students associated in this Magazine. On behalf of the Department and also on my personal behalf I would like to congratulate to the Magazine committee for their untiring efforts & wish all the best for publishing this “RONIX” 2024.

Best Wishes,
Dr. Jasmine J.C. Sheeja, ME., Ph.D
HOD/Electronics and communication Engineering
RCET

FROM THE DESK OF EDITOR



On behalf of the faculties and students of the Department of Electronics and Communication Engineering, Rohini College of Engineering and Technology it gives me immense pride and happiness to launch the Department Technical Magazine "RONIX 2K24".

The world today is progressing at an unimaginable pace. This magazine shall provide enough insights for readers to get the knowledge about the state-of-the-art technical advancements and activities. It is solely dedicated in bringing out the latest talents of students and holds immense potential over sharpening the students' skills as a part of their overall Personality Development. With this, we will be able to represent the Creative Excellence of our entire Students' Community. I am confident that this piece of technical work shall not only develop the taste for reading among students' but also bring a new blooming hope in the minds of our young budding engineers.

I acknowledge my sincere gratitude to our Management, faculties, staffs and students for their continuous support to prepare this magazine. I also extend my heartfelt thanks to our editorial crew for their ceaseless effort and support in bringing out the magazine in the present form. Last but not the least, I am thankful to all the authors who have contributed excellent articles to build this magazine. I wish all the readers shall have a great experience reading and exploring the magazine just as much as we enjoyed making it.

With Thanks and Sincere Regards,

Dr. SUMI M S

Associate Professor, Dept. of ECE.

Associate Editor

Editor's Desk

The Creative minds of the Electronics and Communication department of Rohini college of Engineering & Technology have come together to present what they have always wanted to and we congratulate every student who has given their contribution. They can't be appreciated enough and we can't explain how difficult it was to compile all their accomplishments into a single magazine. We take pride in showing you of how our very own Velammalians have imaginations which spread across the horizons. We would like to thank the Management and all the staffs who have supported the 'Evolve' initiative and for having trust in the Editori-al board by giving us full freedom to choose the contents and design for out magazine. The magazine should serve as a pillar of motivation for every other student who is yet to emerge as an Achiever and to carry the legacy of Evolve. The students who follow in the next academic years, we advice you to do the same. Go Mad, B.E. productive but at the same time B.E. creative! (pun intended)



Mr. R. V. Nagarajan
Assistant Professor



B. J. Godwin
IV Year ECE



I. Balasubramani
III Year ECE

INSTITUTE VISSION

To foster and promote technically competent graduands by imparting the state of art engineering education in rural regime.

To enunciate research assisted scientific learning by dissemination of knowledge towards science, agriculture, industry and national security.

INSTITUTE MISSION

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DEPARTMENT VISION

To promote Ethical and Innovative Electronics and communication Engineers through excellence in teaching, training and research so as to contribute to the advancement of the rural society and mankind.

DEPARTMENT MISSION

To impart high quality technical education and exposure to recent trends in the industry, to ensure that the students are moulded into competent Electronics and communication engineers.

To inculcate research capabilities and exemplary professional conduct to lead and to use technology in agriculture, industry and national security for the progress of our country.



ABOUT



ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY

Rohini college of Engineering and Technology (RCET), founded in the year 2012 by Shri.K.Neela Marthandan, a great Industrialist and philanthropist, stands out as a prestigious Institution of higher learning with a mission of pursuing excellence in education and research. The Institution is run by Dr.N.Neela Vishnu as the pro chairman and Dr.V.M.Blessy Geo as Managing Director.

The institution, with dynamic community of students offers 7 undergraduate programs, 5 postgraduate programs and a research program in the Department of Mechanical Engineering with accomplished faculty, high class facilities and premium hostels. RCET is located at Palkulam near Anjugram which is 5 kms from Kanyakumari and 14 kms from Nagercoil junction.

UNIQUENESS

- An ISO Certified institution Ø Project cost of Rs.26,75,000/- sanctioned by AICTE under the Modernization and removal of Obsolescence Aspirational- (MODROB-ASP)
- Project sanctioned worth Rs.5, 00,000/- by Tamil Nadu State Council for science and Technology (TNSCST) for the proposal “Mapping of Science and Technology needs of Tamil Nadu”.
- Received fund of Rs.1.5 Lakhs for the Scheme Unnat Bharat Abhiyan under the Ministry of Human Resource and Development (MHRD).
- The outcome of the faculty research is published in major research journals and reputed international conferences in India and abroad.
- The Institute boasts of about 42 patents including 1 Australian patent, out of which 39 patents have been published and 3 granted till date.
- All the departments have set up Product Development Centre to inculcate research practices in the student community.
- The Institute facilitates the placement training activities with the help of industry experts and corporate trainers to prepare the students industry-ready, apart from providing placement training right from First year in the regular schedule for the Distinctive Syllabus framed.
- Over 90% of the eligible students are placed in reputed companies such as Cognizant Technology Solutions (CTS), Capgemini, Infosys, Tata Consultancy Services, Wipro India Limited, Ramco Systems, Nggawe Nirman Technologies etc., with a salary package ranging from 2.5 LPA to 4 LPA.
- RCET has signed Memorandum of Understanding (MoU) with certain leading industries and Premier Institutes to attain symbiosis and to reduce the gap between Industry expectations and Academics. The Institute has MOU with:
 - ◆ SWAYAM - NPTEL Local Chapter.
 - ◆ Nodal Centre for Virtual Lab of IIT, Kharagpur.
 - ◆ Siemens Centre of Excellence in Manufacturing, NIT Trichy.
 - ◆ IREL (India) Limited
 - ◆ Natural Resources Development Project -Vivekananda Kendra.

ABOUT DEPARTMENT

The primary objective of the department is to impart quality education and to deepen the knowledge and skills of the students in the basic concepts and theories in various areas of Electronics and Communication Engineering.

SCOPE:

Electronics is now part of our everyday life, from the mobile phones to televisions, computers and even the high-end advanced satellites that are helping us to lead a smooth life. Ever since the evolution of technology, Electronics and Communication has become an essential discipline which is required by all the industries. Hence, Electronics and Communication engineering is one of the most sought after branches by students. Electronics and Communication Engineering has also penetrated into other areas like healthcare, instrumentation, automation, remote sensing, signal processing etc.

So students pursuing electronics and communication engineering have a lot of scope in varied industries. Taking the educational scope and career choices into consideration, here are the popular areas of study in the field of Electronics and Communication.

- ◆ Internet of Things
- ◆ Robotics · Mechatronics
- ◆ Embedded System
- ◆ Digital Image Processing
- ◆ Artificial Intelligence and Machine Learning
- ◆ 5G Technology

FACTS

LIFI TECHNOLOGY

Li-Fi, short for Light Fidelity, is a wireless communication technology that utilizes visible light to transmit data. Li-Fi employs light-emitting diodes (LEDs) to encode and transmit data through the modulation of light intensity. This method enables high-speed data transmission over short distances, offering advantages such as increased bandwidth, enhanced security, and reduced interference.

Li-Fi technology was first proposed by Harald Haas, a professor of mobile communications at the University of Edinburgh, during a TED Global talk in 2011. Haas demonstrated the concept of using LED light bulbs to transmit data at high speeds.

Li-Fi and Wi-Fi are wireless communication technologies with distinct characteristics. Li-Fi uses visible light for data transmission, offering high speeds and enhanced security, ideal for indoor environments. Wi-Fi, on the other hand, relies on radio frequency signals, providing broader coverage but may encounter interference. While Li-Fi excels in speed and security, Wi-Fi offers versatility and compatibility across various applications and settings.



BY;

Abishek.R

IV Year ECE -'A'

TRANSDUCER

A transducer is a device that converts energy from one form to another. It can take many different physical forms and functions, depending on its intended application.

TYPES OF TRANSDUCER DEVICES

1. **Piezoelectric Transducers:** Convert mechanical stress/strain to electrical signals and vice versa, commonly used in sensors and ultrasound devices.
2. **Transducers:** Measure changes in capacitance to detect physical quantities like
Electromagnetic Transducers: Operate on electromagnetic induction, converting electrical energy to mechanical energy (or vice versa), used in speakers, microphones, and generators.
3. **Optical Transducers:** Convert light energy to electrical signals and vice versa, found in photodiodes, solar panels, and optical sensors.
4. **Thermoelectric Transducers:** Generate electrical voltage from temperature differences using the Seebeck effect, applied in thermocouples and temperature sensors.
5. **Capacitive displacement or pressure,** used in touchscreens and proximity sensors.

Working Principles: The working principle of a transducer device depends on its type and the energy conversion mechanism involved. Generally, transducers operate based on physical phenomena such as piezoelectricity, electromagnetic induction, or changes in capacitance due to mechanical deformation or temperature variations.



BY;
Ananth.K
IV Year ECE -'A'

SILICON CONTROLLED RECTIFIERS (SCRs)

Introduction: Silicon Controlled Rectifiers, commonly known as SCRs, are semiconductor devices widely used in power control and electronic switching applications. With their ability to handle high voltages and currents, SCRs play a vital role in various industries, including power electronics, motor control, and telecommunications.

Structure and Operation: SCRs consist of four semiconductor layers: anode, cathode, gate, and p-type semiconductor material (usually silicon). The device operates in one of two states: forward blocking and forward conduction. In the forward blocking state, SCRs block current flow until a gate trigger signal is applied, causing the device to enter the forward conduction state. Once triggered, the SCR conducts current until the forward voltage drops below a certain threshold or the current drops below a certain level.



BY;
Harish.S
IV Year ECE -'A'

OPERATIONAL AMPLIFIERS (OP-AMPS)

Introduction: Operational amplifiers, commonly known as op-amps, are fundamental components in the realm of analog electronics. Their versatility, high gain, and wide range of applications have made them indispensable in various fields, including signal processing, audio amplification, instrumentation, and control systems.

CHARACTERISTICS:

Op-amps are active electronic devices with two input terminals (inverting and non-inverting), an output terminal, and a power supply connection. They are designed to amplify the voltage difference between their input terminals and produce an output voltage proportional to this difference. Op-amps typically have a very high gain, often exceeding 100,000, and are characterized by their differential and common-mode voltage gain, input impedance, output impedance, and bandwidth.

Op-amps amplify, condition, and control electrical signals. They regulate variables, filter signals, and generate waveforms. Op-amps compare voltages, stabilize power, and amplify precise measurements. They are crucial in signal processing, control systems, and instrumentation. Op-amps are versatile tools in electronics, enabling a wide range of applications with their compact size and high performance



BY;

Raja Sunil.R

IV Year ECE -'B'

RASPBERRY PI

Introduction: The Raspberry Pi, launched in 2012 by the Raspberry Pi Foundation, revolutionized computing with its affordability and accessibility. This credit-card-sized computer was designed to inspire creativity and experimentation in computer science education and innovation.

KEY FEATURES:

- Powered by a Broadcom ARM processor.
- Offers RAM ranging from 1GB to 8GB.
- Equipped with HDMI output, USB ports, and GPIO pins.
- Provides Wi-Fi and Bluetooth connectivity in some models

Applications: The Raspberry Pi finds applications in education, home automation, media centers, IoT projects, robotics, and digital art/music. Its versatility makes it a go-to tool for DIY enthusiasts and professionals alike.

Community and Innovation: The Raspberry Pi community is a vibrant ecosystem of users and developers who share knowledge, collaborate on projects, and push the boundaries of innovation. Online forums and resources facilitate learning and creativity, driving the evolution of the Raspberry Pi platform.



BY;

Subanesh Kumar .S

IV Year ECE -'B'

PIERRE-SIMON LAPLACE

INTRODUCTION :

Pierre-Simon Laplace (1749–1827), later known as the Marquis de Laplace, was a remarkable French mathematician, astronomer, and physicist. His contributions spanned various fields, including engineering, mathematics, statistics, physics, astronomy, and philosophy. Let's delve into some fascinating facts about this extraordinary scientist.

FACTS :

Celestial Mechanics and *Mécanique Céleste*:

Laplace's magnum opus was his five-volume work titled *Mécanique céleste* (Celestial Mechanics), published between 1799 and 1825. In this monumental work, he summarized and extended the study of classical mechanics using calculus, revolutionizing the field of celestial mechanics.

His research helped establish the stability of the solar system, and he made significant contributions to mathematical astronomy.



Bayesian Probability:

Laplace played a pivotal role in developing the Bayesian interpretation of probability. His work laid the foundation for statistical inference and probability theory.

The Bayesian approach considers prior knowledge and updates it based on new evidence—a powerful framework still widely used today.

Laplace's Equation and Transform:

He formulated Laplace's equation, a fundamental partial differential equation used in various scientific disciplines.

Laplace pioneered the Laplace transform, a mathematical tool that appears in mathematical physics.

It allows us to solve differential equations more effectively.

Nebular Hypothesis and Black Holes:

Laplace restated and developed the nebular hypothesis, proposing that the Solar System formed from a rotating cloud of gas and dust.

Remarkably, he also hinted at an idea similar to that of a black hole, long before the concept gained prominence.

Stephen Hawking even acknowledged that "Laplace essentially predicted the existence of black holes."

Mathematical Genius and Influence:

Often referred to as the French Newton or the Newton of France, Laplace possessed an exceptional natural mathematical talent.

He examined a young Napoleon Bonaparte when the latter graduated from the École Militaire in Paris in 1785. Laplace received titles such as Count of the Empire (1806) and Marquis (1817) during the Bourbon Restoration.



By
Godwin B.J
IV ECE-'A'

POEMS

FRIENDSHIP

You are my best friend; you belong in my heart.
We go through ups and downs, but still nothing can tear us
apart.

I know you as a sister, and I will always care.
Love, respect, and trust are the things we share.

I know you as a person; I especially know you as a friend.
Our friendship is something that will never end.
Right now, this second, this minute, this day,
Our sisterhood is here, is here to stay.

My friendship with you is special and true.
When we are together, we stick like glue.
When I'm in the darkness that needs some light,
When you're by my side, I know things are all right.

Our friendship is so strong; it breaks down bars.
Our friendship is also bright, like the sun and the stars.
If we were in a competition for friendships, we would get a
gold,
Because responsibility and cleverness are the keys we hold.

I met you as a stranger, took you as a friend.
I hope our long friendship will never end.
Our friendship is like a magnet; it pulls us together,
Because no matter where we are, our friendship will last
forever!



BY;
I.Balasubramani
III Year ECE-'A'

FAMILY LOVE FOREVER

**Have u ever thought actually
What it would be like, without a family.**

**Family is the only one,
Where one experiences best of fun.
Family is an elegant necklace,
Whose bond may appear broken
But deep inside, their hearts are still one.**

**When the unwanted sorrows seem longer than a mile,
Your dear old family makes you smile.**



BY;
S.Anbu Raja
III Year -'A'

LOVE AND LUST POEM

Love and lust are poles apart.

Lust is chaos, love is art.

Love infinite, lust is finite.

Love is sustained, lust is short.

Love is spiritual, lust is physical.

Love is ideal, lust is sensual.

Love is selfless, lust is selfish

Love immortal, lust is mortal.

Love is productive, lust is destructiv



BY;
A.Asvanth
III ECE-'A'

THE FAKE PEOPLE

People may pretend to care
And volunteer to work
But after work they turn on the cold stare
In their hearts hate is what lurks
I hate that kind...
So fake and selfish
Me and them think different in our mind
Good people are the ones who are selfless
I am no exception
I can be selfish at times
I cast a self-deception
My personality can be like wind chimes
It changes momentarily
And i catch it in the act
I cure my myself singularity
And change it back
In a world of fakes
Where people take for granted every meal
Where people expect bithday cakes
Dare to be real



BY;
I.Balasubramani
III Year-'A'

OLYMPIC GAMES

Only for those of a special breed,
Living a dream, a chance to succeed,
Yesterday's hopes and desires coming true,
Making your mark with records anew
Proving hard work and the daily grind,
Instructing the body, conditioning the mind
Can capture a medal for the whole world to see, with
Glamour and Pride for your country,
As you stand aloft and your flag is flown high, there's
Memories forever, and a tear in your eye,
Enjoying the moment, the admiring looks,
Securing your name in the history books.



BY;
K.Amsathith
III Year ECE-'A'

COLLEGE LIFE

Stepping into a new life where
One faces oneself

Some consider everything a race
and chase after them all,
While others find it difficult
to even tie their shoe lace.

Many here care for you,
but you care for a select few

Lots of leisure, lots of pressure
In the midst of which, some search for treasure.

The greatest invention being the headset
without which no one's heads are fit
More sleep, less work, but still
feeling tired every other minute.

Sudden decisions rare output
even don't care for taking next
More dance, more wishes,
Many an exam and test.

Suddenly, when you look back
The poster says 'The End',
The 35040 hours of these four years
Are just like the three hours of a movie

Passing by in the snap of your fingers
Leaving behind many a memory that lingers.



BY;
Bala Ram.S
III Year ECE-'A'

என் இனிய நண்பியே!

புயலுக்கு பின்னே வரும் தென்றல் போல வந்தாயே நீ
என் வாழ்க்கையிலே, அரசனின் சிம்மாசனத்தை விட
பெரிய இடமான உன் மனதில் எனக்கு இடம் தந்தாயே

நாட்டை ஆளுபவனை விட உயர்ந்தேனே! காணா
கடவுளை நம்பிக் கொண்டிருத்த - என்னை காணும்
கடவுளை காண்பித்தாயே - உன்னால் உன் அன்பினால்,

என் வாழ்க்கையில் மலர்ந்த வாடா மல்லி நீ
உன் அன்பினால் செதுக்கிய சிற்பி நீ
என் உலகத்தில் உதித்த சூரியன் நீ
என் இறவில் தோன்றும் மதி நீ

கடல் கரையில் வரும் அலையை போன்ற
என் மனதை; கடல் நடுவில் இருக்கும் நீரை போல
சமாதானம் செய்தாய்

உன்னோடு பேசும் மணிதுளிகள்,
மின்னலை விட வேகமாக செல்கிறது.

நீ என்னிடத்தில் இருக்கும் வரை, என்னுடைய
கவலைகள், பெர்முடா தீவுக்குள் செல்லும்
கப்பல்களை போல் மறைகின்றன,

நீ என்றும் என் நெஞ்சில், கலந்திற்க்கும்
இரத்தமாய் இருப்பாய், - உன்னை
என்னிடமிருந்து பிரிக்க இயலாது
என் இனிய நண்பியே!



இவண்;

ச. ஸ்ரீ ஈஸ்வர்

II Year ECE

YOUR BEAUTIFUL SMILE

Life is a mystical winding
Woven around happy and sad things
It flows like ripples of water
Turned me into perpetual carter
Mirth & peace play games of guile
But I never realized
It's next to me, your beautiful smile

Rarely, blink my eye on odd notion
Life's filled with dreary commotion
Whole year seems concised in a day
My own shadow made me partying bay
Happiness seemed to be so labile
But I never realized,
It's always next to me, your beautiful smile

The Smile

Beautifully unzips around your face
Annihilate griefs without trace
Arouse me to pinnacle of elation
Embraces me this beautiful creation
Melodramatic life made me fragile
Protected and cared by your beautiful smile



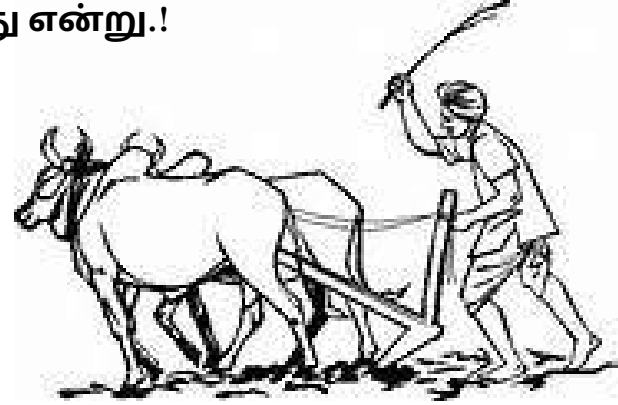
BY;
Aishwarya .W
III Year ECE-'A'

விவசாயம்

சினிமா பார்ப்பவர்கள் எல்லாம்
சினிமாவில் நடிக்க ஆசைப்படுவார்கள்..
ஆனால் சோறு சாப்பிடும் நாமெல்லாம்
விவசாயம் செய்ய ஆசைப்படுவதில்லை.

ஒருநாள் அரசனும் ஆண்டி ஆவான்,
வரும் நாள் உழவனும் அரசன்
ஆவான்..
வீழ்வது நாமாக இருந்தாலும்
வெல்வது விவசாயமாக இருக்கட்டும்!.

காட்டில் வேலை செய்பவனை
கேவலமாகவும்.. கணினியில் வேலை
செய்பவனை கௌரவமாகவும்
நினைப்பவர்களுக்கு தெரியவில்லை..
“அரிசியை” இன்டெர்நெட்டில்
டவுன்லோட் செய்ய முடியாது என்று!.



இவள்;
க. பாரதி,
III Year ECE-'A'

அப்பா

கடவுளுக்கும் அப்பாவுக்கும்
சின்ன வேறுபாடு தான்
கடவுள் - நாம் காணாத தெய்வம்
அப்பா - நாம் தினம் காணும் தெய்வம்

எத்தனை பேர் நான்
இருக்கிறேன் என்றாலும்..
அப்பாவை போல
யாராலும் இருக்க முடியாது..

உலகத்தில் எத்தனை
சொந்தங்கள் இருந்தாலும்
என் கண்கள் தேடுவது
அப்பாவை
மட்டுமே..



இவள்;
ஏ. ஜெபஷனி,
III Year ECE-'A'

காலையும் காதலும் மழையும்

காலையில் எழுந்ததும் மழை சத்தம்
பிசிறு பிசிறாய் சன்னலின் வழியே
துளிகளாய் இலைகளிடை தங்கி
மண்ணின் மடியினிலே வீழ்ந்து சிதறி
புதிதாய் இனம் புரியா மோகத்தினை
தெளித்திடும் இக்காலை வேலையில்
பூக்கள் இல்லா மரமும்
மழைத்துளிகளை தாங்கி கொண்டு
தாய்மையின் பூரிப்புடன் நெகிழ்ந்திட
மழை தந்த ஈரத்துடன்
சாலை கருமையும் மின்னிட
ஒன்றை தான் மனது நினைக்கும்
நினைவுகளில் ஏக்கம் கூடும்
அவைகளின் அழுத்தம் ஓங்கும்
எனவே
உடனிருத்தல் வேண்டும் என்றும்
மௌன மொழி போதுமென்றும்
போர்வையில் உறைந்து கொண்டு
புருவ அசைவே காதல் சொல்ல
தருணங்கள் தளிர் நடனம் புரிய
மழை வரும் காலை காதலும் தரும்
என்றாய் என் மனம் அங்கலாய்க்க

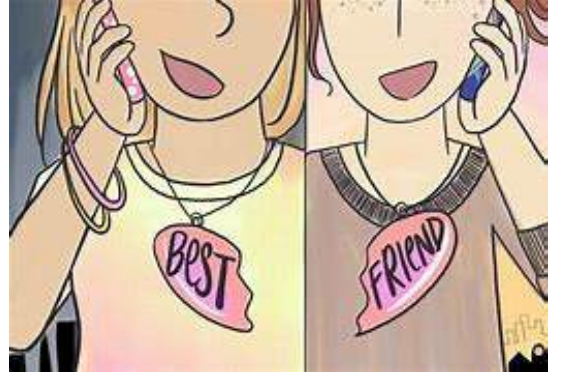


இவள்;
சி. கெத்சியா ஜலட்சி
III Year ECE-'A'

நீண்ட தூர நட்பு

தூரம் எங்கும் பிரிக்காது நம் நட்பை,
உள்ளம் போல் உறவு வளர்த்திடும் இந்த காற்றை.
நினைவுகள் சேர்க்கும் நம் கதைகளை,
கனவுகள் கொண்டு செல்லும் நம் பயணங்களை.

விண்ணில் பறக்கும் பறவைகள் போல,
நம் நட்பு எல்லைகளை தாண்டிடும்.
நீ இங்கே இல்லை என்றாலும்,
உன் நினைவுகள் என்னை விட்டு நீங்காது.



இவள்;
ம.தனலெட்சுமி
III Year ECE-'A'

அவள் ஆடுகின்றாள்

கதிரவனின் ஒளி வந்து உமிழுமுன்
இருண்ட மரங்களின் அசைவுகள் சூழ்ந்திருக்க
பேச்சரவமின்றி சூழல் அமைதியுற்றிருக்க
நவீன பூங்காவின் மத்தியிலே
சீரற்று கிடக்கும் மேடை தளத்திலே
தனியாய் ஓர் நிழலுருவம்
அவள் ஆடுகின்றாள்
கைகளை மேலுயர்த்தி ஒன்று சேர்த்து
ஓங்கார வடிவமாய் நிற்கின்றாள்
மதியென்னும் பொருளியந்து
காலத்தின் இருப்பை உணராது
தன் என்னும் பாரத்தை வெளி யெங்கும்
இறக்கி விட்டு அவள் ஆடுகின்றாள்
இலைகளின் மறைவில் ரீங்காரமிடும்
காக்கை குருவிகளின் இசை யொலியினிலே
சலங்கையில்லா அவள் பாதம் மண்தொட்டு
பின் காற்றில் அளவளாவ அவள் ஆடுகின்றாள்



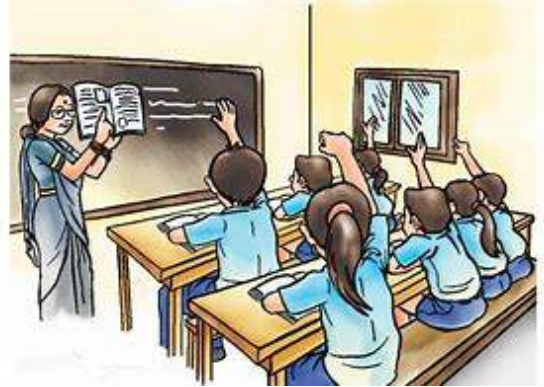
இவள்;
மகாலெட்சுமி . அ .ப
II Year ECE

கல்வி

கல்வி எனும் கடலில் அறிவின் முத்துக்கள் தேடி,
அறிவின் பாதையில் நாம் பயணிக்கின்றோம்.
புத்தகங்கள் எனும் படகில் ஏறி,
ஞானத்தின் தீவுகளை நோக்கி செல்கின்றோம்.

கற்றல் என்பது வாழ்வின் தொடக்கம்,
கல்வி என்பது வாழ்க்கையின் அடிப்படை.
அறிவின் வெளிச்சம் எங்களை வழிநடத்த,
கல்வி எனும் கொள்கை எங்கள் கைவிடாது.

கல்வி இல்லாத மனிதன் குருடன் போல,
அறிவின் ஒளியில் நாம் புதிய உலகை காண்போம்.
கல்வி எனும் பொக்கிஷம் நம் கைகளில்,
அதன் வழியில் நாம் உயர்ந்து நிற்போம்



இவள்;
தனுஷா ச
II Year ECE

ஆணின் வாழ்க்கை

விடியலின் முதல் கிரணம் போல்,
உழைப்பின் வெளிச்சம் தரும் ஆண்மகன்.
குடும்பத்தின் தூணாய் நிற்கும்,
அவன் பெருமை பேசும் அனைவரின் நாவும்.

கனவுகளை நிஜமாக்க பாடுபடும்,
தன் வியர்வையை முத்தமிடும் மண்ணில்.
சோதனைகள் எத்தனை வந்தாலும்,
துணிவுடன் முன்னேறும் அவன் பாதையில்.

குடும்பம் எனும் கோவிலில் அவன்,
பூஜை செய்யும் பூஜாரி.
அவன் வாழ்க்கை ஒரு பாடம்,
உழைப்பின் மகத்துவம் காட்டும் காவியம்.



இவள்;
ரக்ஷினி .சு
II Year ECE

இரவு பயணம்

இரவின் மடியில் பயணம் தொடங்கும்,
விண்மீன் கூட்டம் வழி நடத்தும்.
அமைதியின் சாரலில் மனம் கலங்கும்,
நிலவின் ஒளியில் கனவுகள் பலவிடும்.

வானம் தான் எங்கள் பயண பாதை,
தூரத்து நட்சத்திரம் எங்கள் நண்பன்.
இருளில் மறைந்து போகும் பாதைகள்,
நம்பிக்கையின் ஒளியில் தெரியும்.

இரவு பயணம் என்பது மனதின் தேடல்,
அதில் கிடைக்கும் அமைதி அரிதானது.



இவள்;
ஹரினி .ம
II Year ECE

உடன்பிறப்பே

என் இனிய உடன்பிறப்பே!
என் முதல் நண்பனே! நண்பியே!

என்னைக் காப்பாற்ற அப்பாவிடம் பொய் கூறினாய் -
அம்மாவிடம் அடி வாங்கினாய்.

இது எல்லாம் நீ செய்தாய் !
உனக்கு கிடைத்த இனிப்பை நீ எனக்கு பங்கிட்டாய்

உனக்கு பிடித்த நொறுக்குத்தீனியை என்னிடம்
பங்கிட்டாய்

தொலைக்காட்சி காணும்போது அதையும் என்னிடம்
பங்கிட்டாய்; ஆனால் உன் பாசத்தை மட்டும்
முழுவதுமாக தந்துவிட்டாய்;
அது ஒன்று மட்டும் நான் போதும் என ஒருபோதும்
உரைக்க மாட்டேன்.

நான் இருந்த இருட்டு அறைக்குள் நீயும் இருந்தாய்,
நான் பிறந்த மண்ணிலே நீயும் பிறந்தாய்;

நான் பிறந்த அன்று என் உடல் முழுமையாக
இருந்தது;

என் உயிர் பகுதியாக இருந்தது;

நீ பிறந்த அன்றே என் பகுதி உயிர் முழு உயிர் ஆனது !

என் உடன்பிறப்பே!



இவண்;
ச. ஸ்ரீ ஈஸ்வர் ,
II Year ECE

அம்மா

உன்னுள் என் உயிர் தந்த என் அம்மா;

உனக்கு நான் என்னுயிர் தந்தாலும் அதற்கு ஈடாகாது.

நான் யார் என்று அறியும் முன்னே என்னை நேசித்தாயே !

இதெல்லாம் எனக்காகவா நீ செய்தாய்?
என் முதல் ஆசிரியரே", என் முதல் தெய்வமே",

மதங்கள் பல இருப்பினும் அனைத்து மதத்தினறும்
வணங்கும் ஒரே தெய்வம் நீயே !

நீயே என்னை வளர்த்தாய்!
நீயே என்னை செதுக்கினாய்.

ஆயிரம் காதல் மலரும் பூமியில்
என் முதல் காதலியும் நீயே!

என் முதல் தோழியும் நீயே!

என்னை அடித்தால் உனக்கு வலிக்கும் என தெரிந்தும் நீ
அடிப்பாய் - பின்பு கண்ணீரால் நீ தவிப்பாய்!



இவண்;
ச. ஸ்ரீ ஈஸ்வர் ,
II Year ECE

QUIZ

1. The waste of the factory the river.

- A.Pollutes
- B.Dirties
- C.Wastes
- D.Extinct

CORRECT ANSWER

A. Pollutes

2. Margie didn't learn French she lived in Paris for a year.

- A.Because
- B.Because of
- C.Before
- D.Therefore

CORRECT ANSWER

C. Before

3. The emperor the sounds of wind blowing through the garden.

- A.Saw
- B.Tasted
- C.Heard
- D.Felt

CORRECT ANSWER

C. Heard



4. I have been sitting here three hours.

- A.For
- B.Since
- C.About
- D.To

CORRECT ANSWER

A. For

5.A : Mom, I'm going to school now. B: OK.

- A.Don't move!
- B.Be careful!
- C.Look out!
- D.Watch out!

CORRECT ANSWER

B. Be careful!

6.We couldn't get there on time there was a traffic jam. (Select all that apply)

- A.Because
- B.Due to
- C.Since
- D.As

CORRECT ANSWER(S)

- A. Because**
- C. Since**
- D. As**



7. Is this sentence grammatically correct: "The man whom is running around the field is a thief."

- A. True
- B. False

CORRECT ANSWER

B. False

8. Is this sentence grammatically correct: "The boy whom you hit is my son."

- A. True
- B. False

CORRECT ANSWER

A. True

9. She failed on her exam the fact that she had studied hard. (Select all that apply)

- A. Although
- B. Despite
- C. Even though
- D. In spite of

CORRECT ANSWER(S)

B. Despite

D. In spite of



10. Is this sentence grammatically correct: "I need an advice on what to do next."

- A. True
- B. False

CORRECT ANSWER

B. False

11. Is this sentence grammatically correct: "I managed to find the books I wanted."

- A. True
- B. False

CORRECT ANSWER

A. True

12. Who is honoured as Father of Modern Chemistry?

- (A) Antoine Lavoisier
- (B) David Joseph
- (C) Rinky Martin
- (D) Newton

CORRECT ANSWER

Ans . A



13. Which toxic element present in automobile exhausts?

- (A) Lead
- (B) Iron
- (C) copper
- (D) Tustin

CORRECT ANSWER

Ans . A

14. Which gases cause acid rain?

- (A) Sulphur dioxide, Nitrogen oxides
- (B) Hydrogen
- (C) Carbon-di-oxide
- (D) Helium

CORRECT ANSWER

Ans . A

15. Which metal is used in the making of microchips?

- (A) Silicon
- (B) Iron
- (C) copper
- (D) Tustin

CORRECT ANSWER

Ans . A



BY;

I. Balasubramani

III Year ECE-'A'

PUZZLE

SUDOKU

4	2				3	8		
1		9	6		7	4		
		8	3			1		6
	9			3				4
	2	3	9	6	4	7	1	
8				1				6
9		7			6	5		
		5	8		9	6		2
	4	6				8		9

ANSWER

4	6	2	5	9	1	3	8	7
1	3	9	6	8	7	4	2	5
7	5	8	3	4	2	1	9	6
6	9	1	7	3	8	2	5	4
5	2	3	9	6	4	7	1	8
8	7	4	2	1	5	9	6	3
9	8	7	4	2	6	5	3	1
3	1	5	8	7	9	6	4	2
2	4	6	1	5	3	8	7	9

SUDOKU

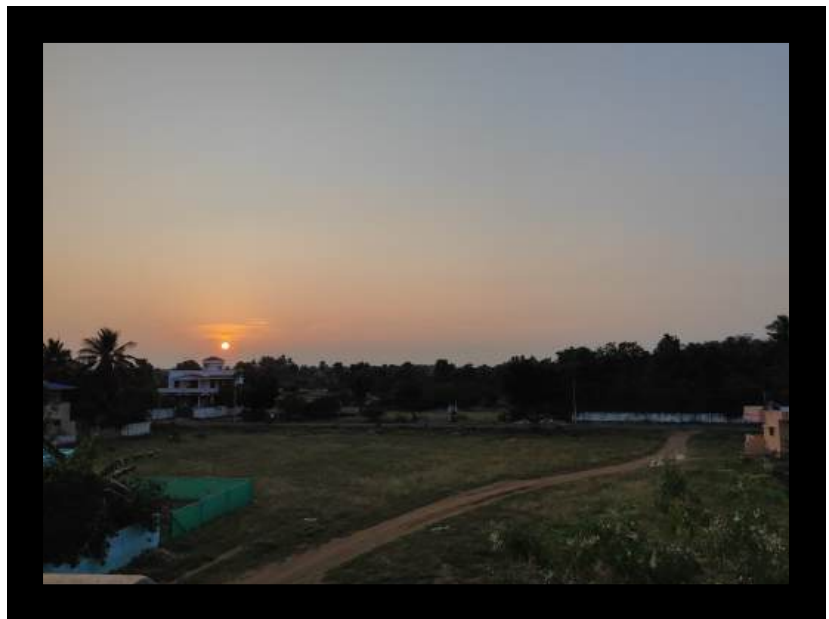
	9	2		5		3		
	4	3		2		1		
	5		3	9			2	4
2	6	5			3	8		
4					1			3
		7	4		2			
			7	4		5		
9			2		5	6		
5	2			3				7

ANSWER

7	9	2	1	5	4	3	8	6
6	4	3	8	2	7	1	5	9
8	5	1	3	9	6	7	2	4
2	6	5	9	7	3	8	4	1
4	8	9	5	6	1	2	7	3
3	1	7	4	8	2	9	6	5
1	3	6	7	4	8	5	9	2
9	7	4	2	1	5	6	3	8
5	2	8	6	3	9	4	1	7

BY;
Santhosh .M
III Year ECE-'B'

PHOTOGRAPHY

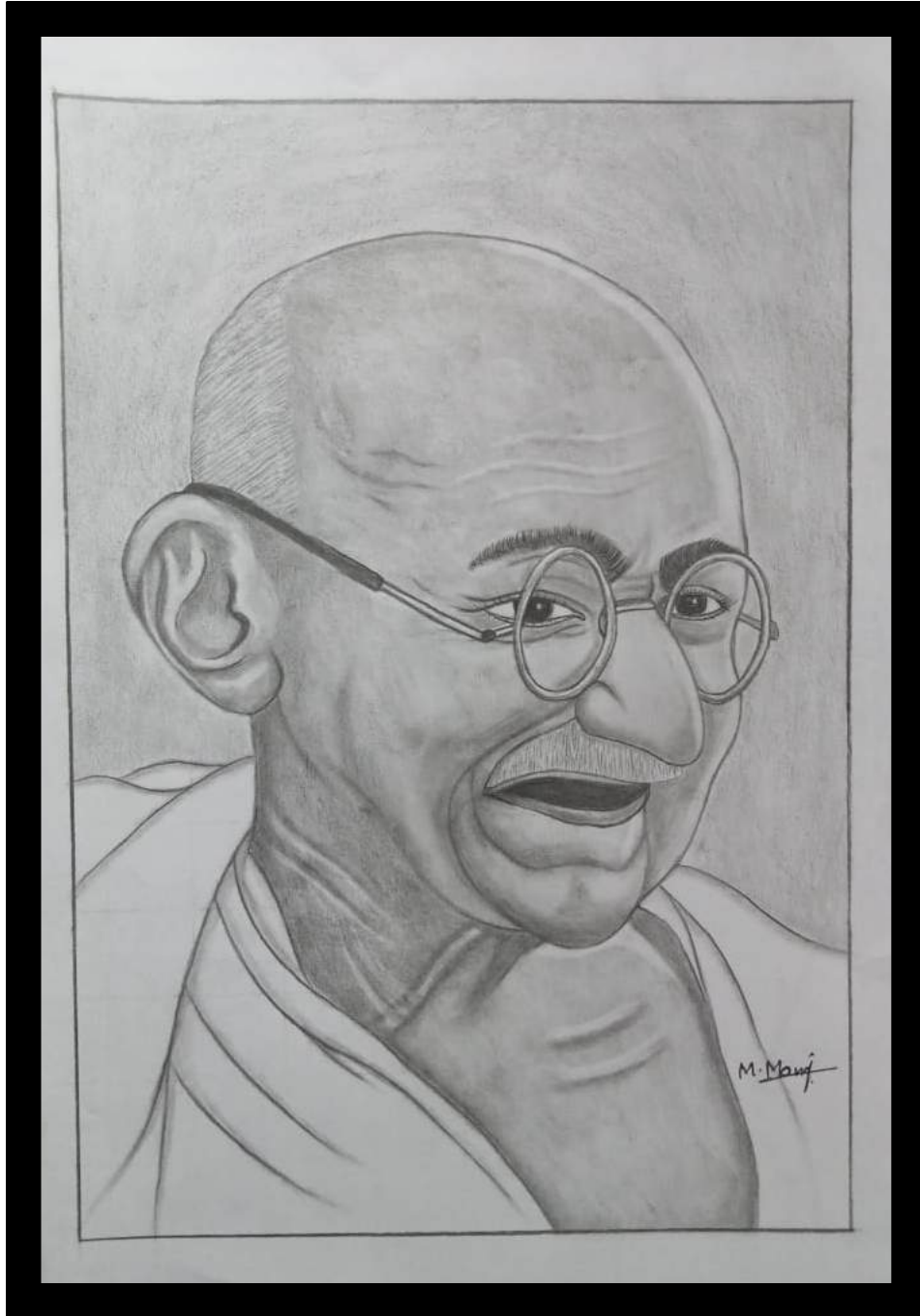


BY;
S.Anbu Raja,
III Year ECE-'A'

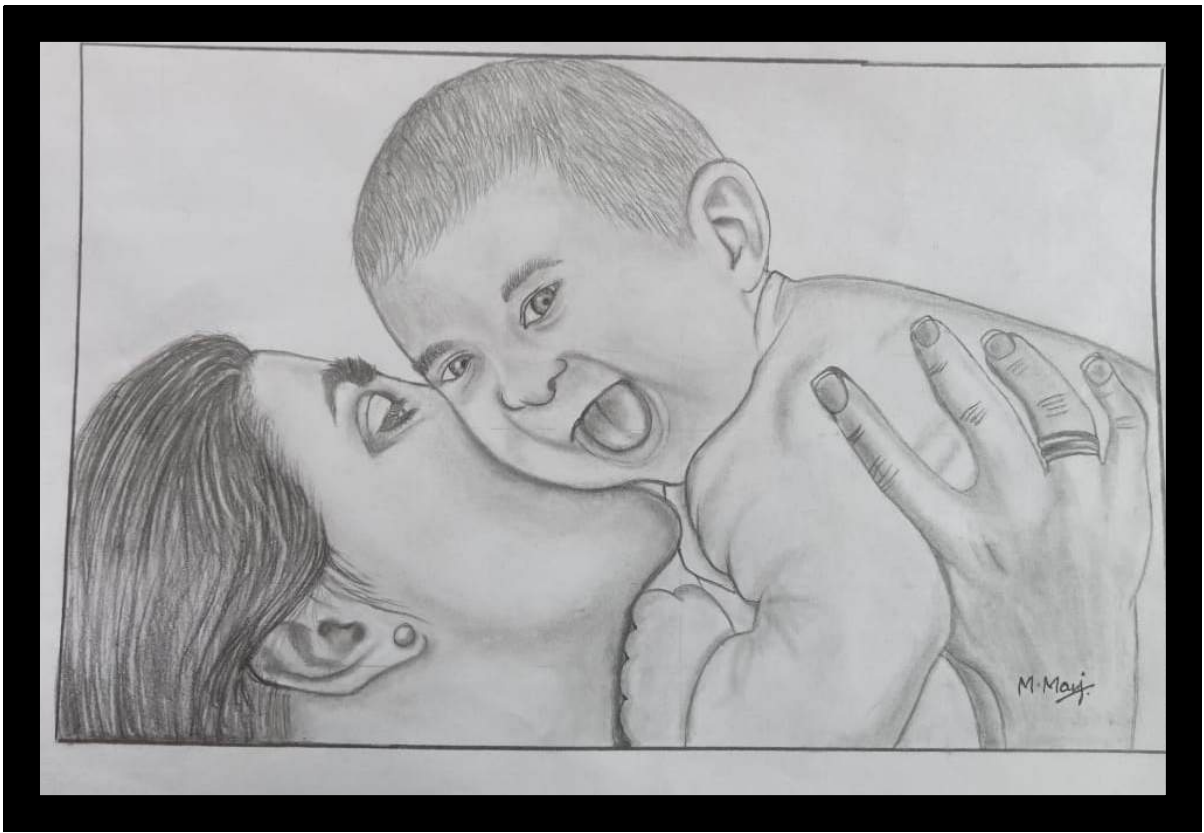


BY;
S.Anbu Raja,
III Year ECE-'A'

VISUAL TREAT



BY;
Manoj.M
II Year ECE



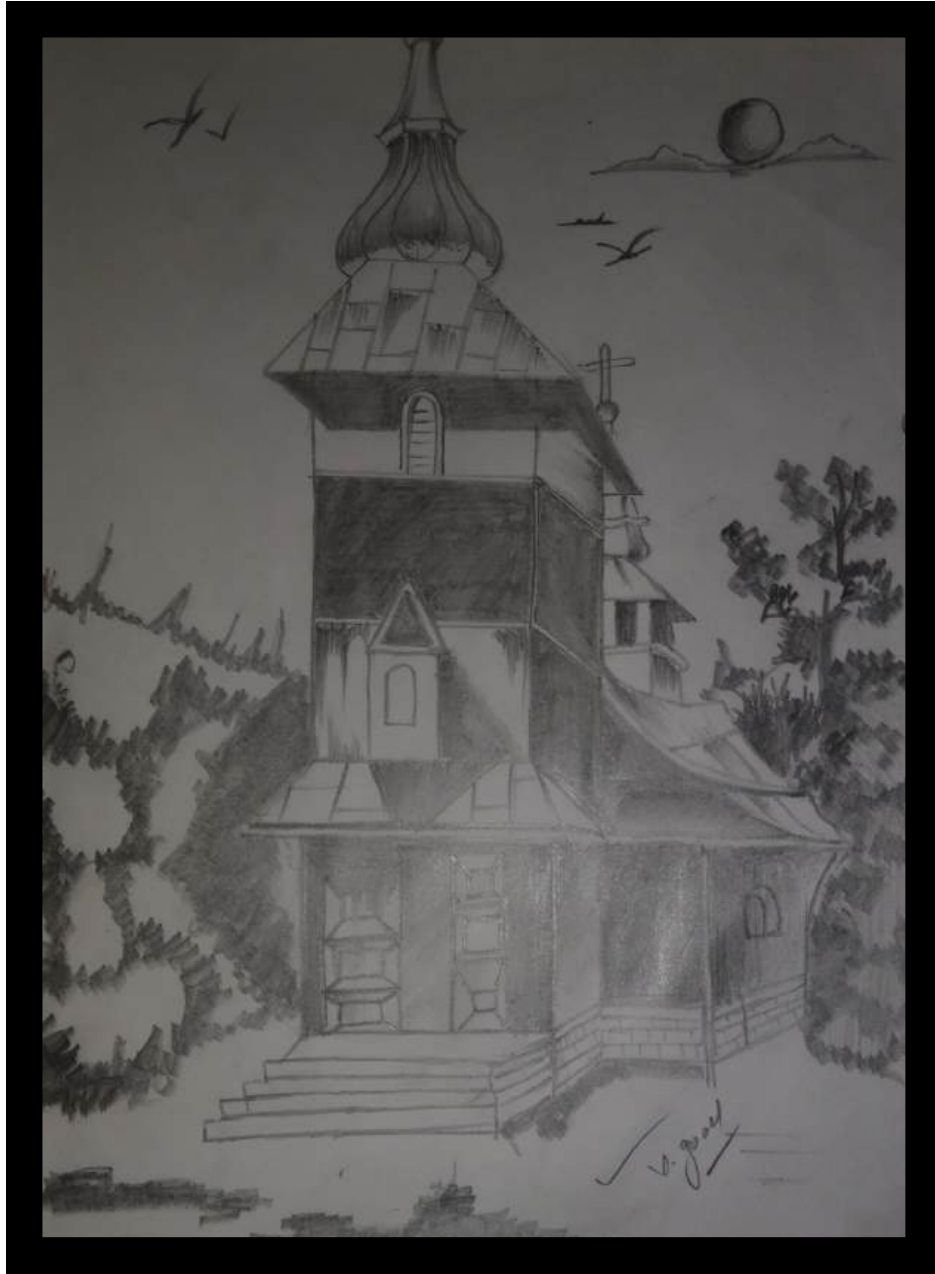
BY;
Manoj.M
II Year ECE



BY:
Jefna.M
II Year ECE



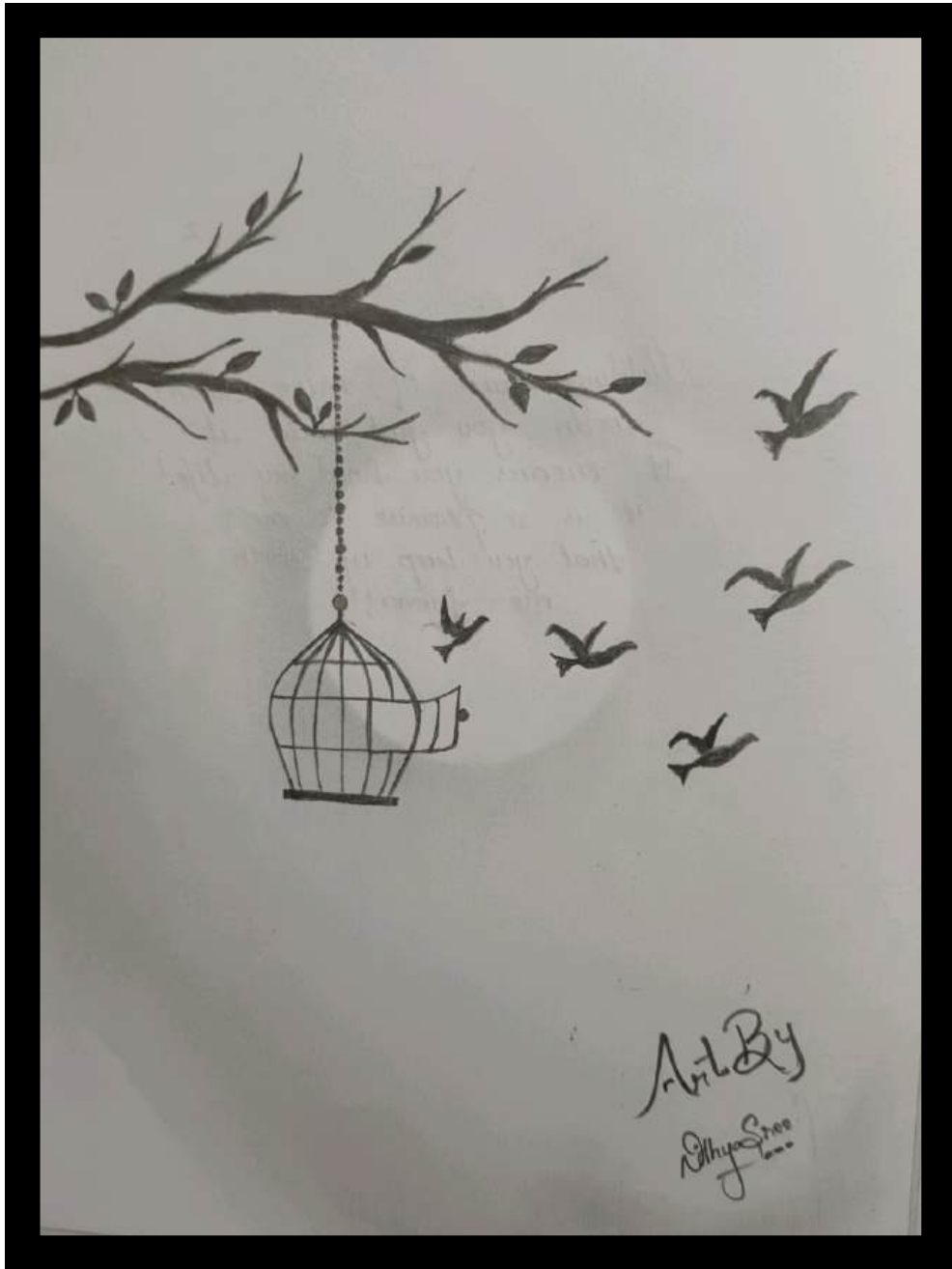
BY;
Aishwaria .R
III Year ECE-'A'



BY;
Tharshini .M
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



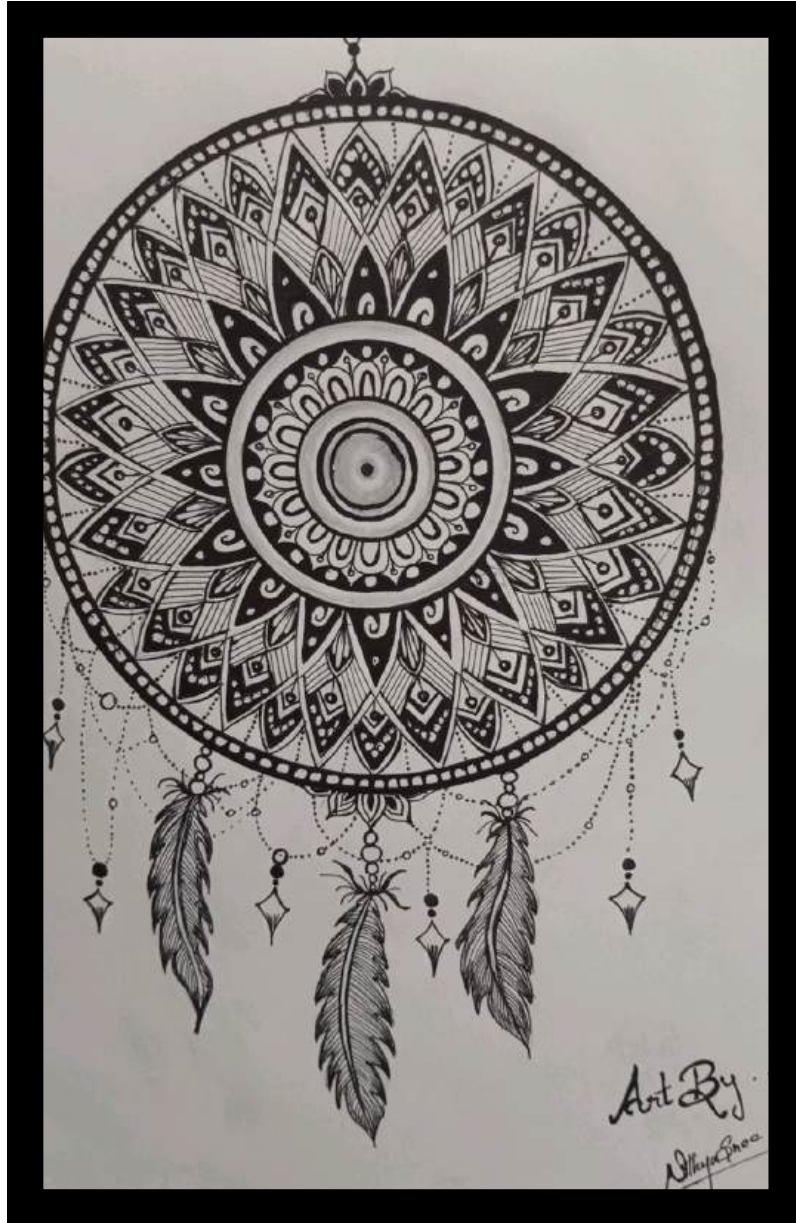
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P.Nithya Sree,
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



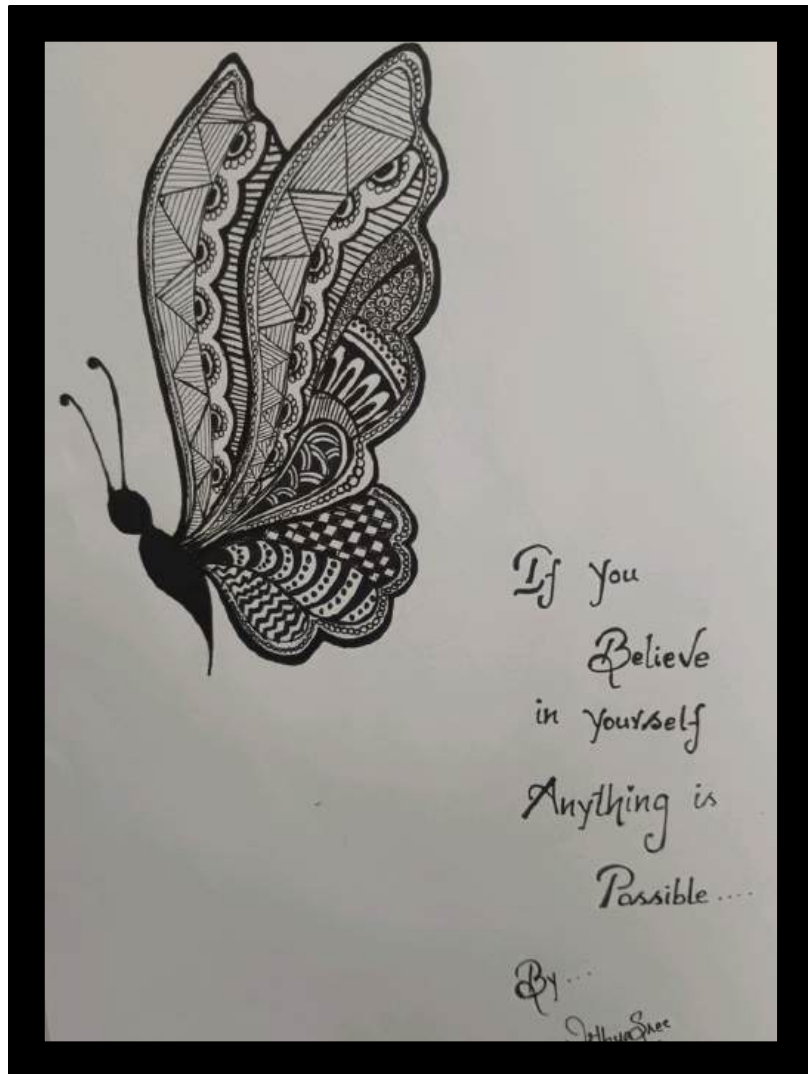
BY;
P.Nithya Sree,
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



BY;
P.Nithya Sree,
II Year ECE



BY;
S.Saranya,
II Year ECE



BY;
R.Jebin,
III Year ECE-'A'



BY;
R.Jebin,
III Year ECE-'A'



BY;
Mufitha
IV Year ECE-'B'



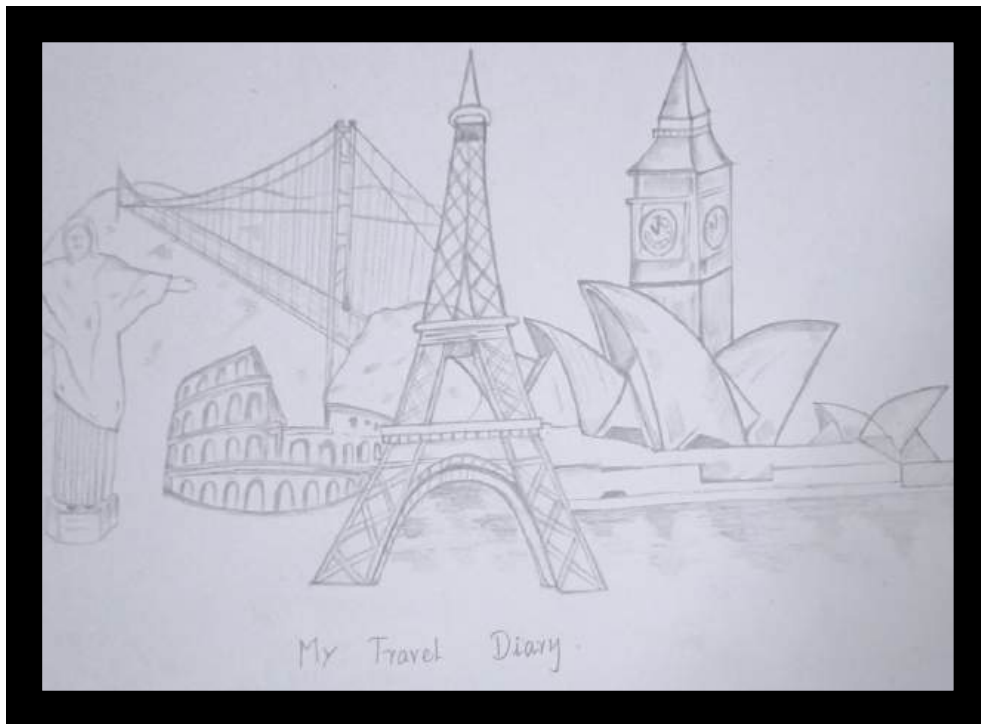
BY;
Mufitha
IV Year ECE-'B'



BY;
Mufitha
IV Year ECE-'B'



BY;
Muruga Vinisha,
IV Year ECE-'B'



BY;
Muruga Vinisha,
IV Year ECE-'B'



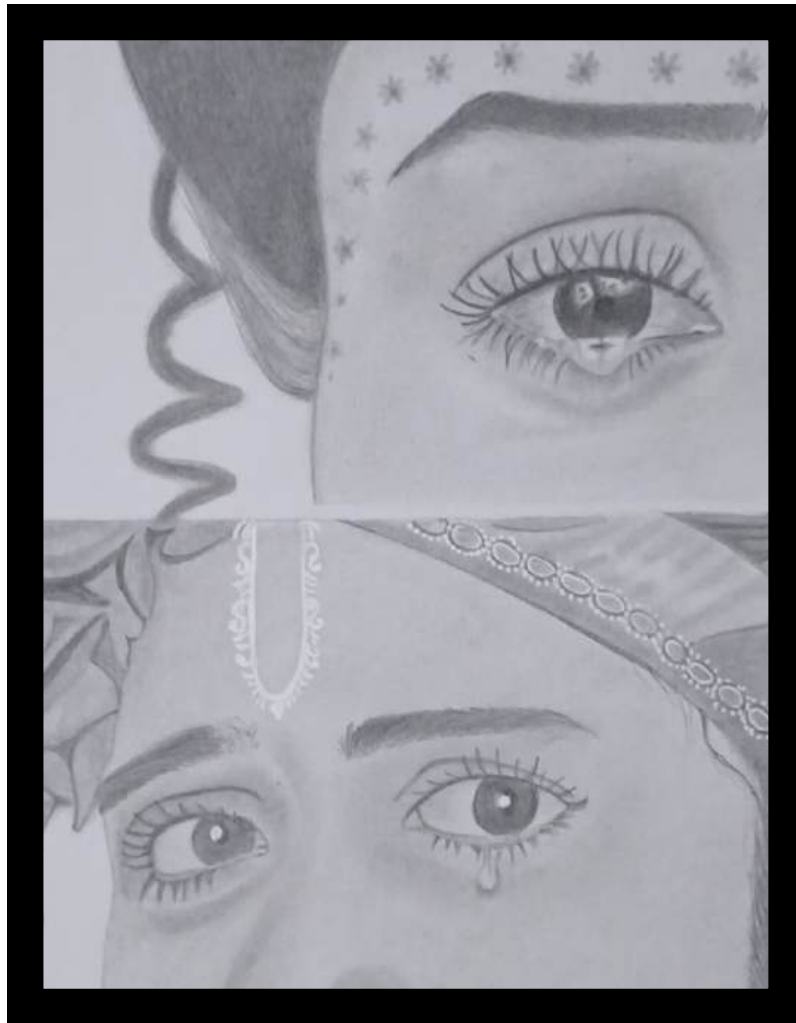
BY;
Muruga Vinisha,
IV Year ECE-'B'



BY;
Muruga Vinisha,
IV Year ECE-'B'



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IV Year ECE-'B'



BY;
Muruga Vinisha,
IV Year ECE-'B'



BY;
Muruga Vinisha,
IV Year ECE-'B'



BY;
P.Subitha,
IV Year ECE-'B'



BY;
P.Subitha,
IV Year ECE-'B'



BY;
P.Subitha,
IV Year ECE-'B'



BY;
P.Subitha,
IV Year ECE-'B'



BY;
P.Subitha,
IV Year ECE-'B'



BY;
P.J.Swetha,
IV Year ECE-'B'



BY;
P.J.Swetha,
IV Year ECE-'B'



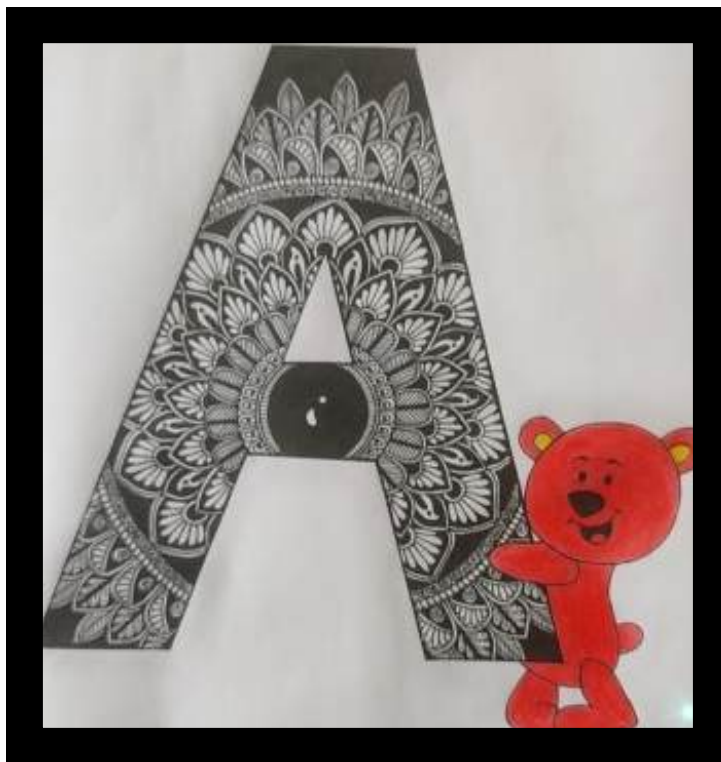
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P.J.Swetha,
IV Year ECE-'B'



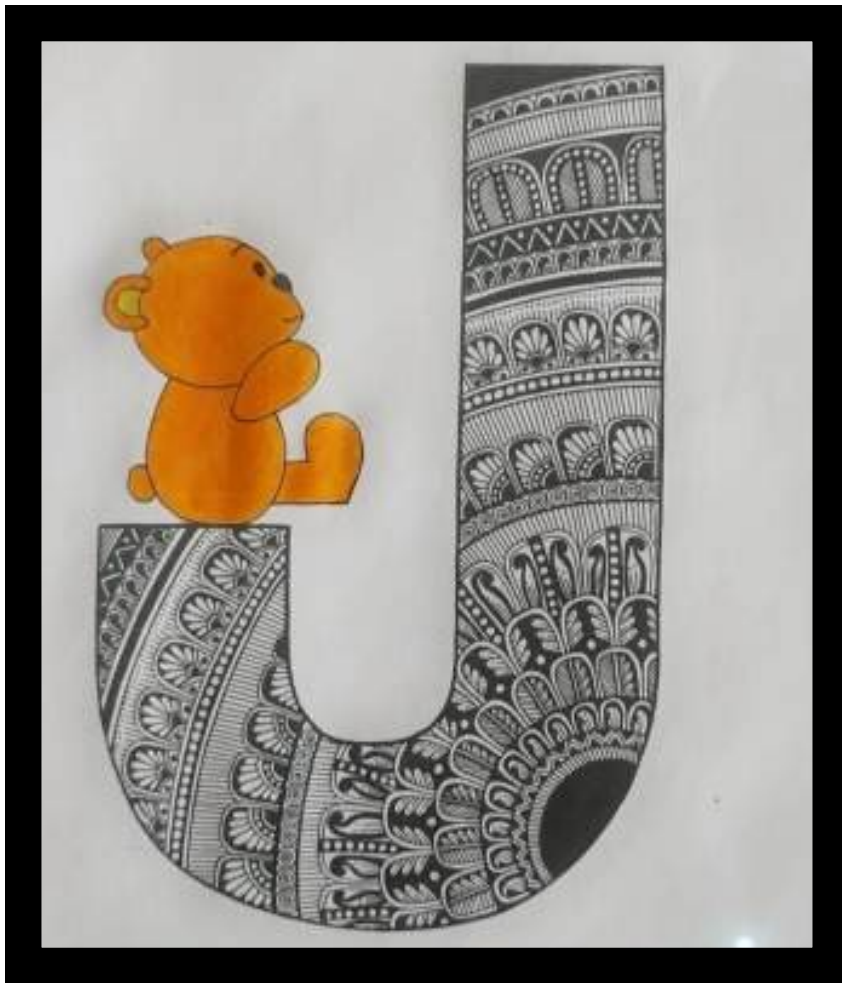
BY;
P.J.Swetha,
IV Year ECE-'B'



BY;
P.J.Swetha,
IV Year ECE-'B'



BY;
P.J.Swetha,
IV Year ECE-'B'



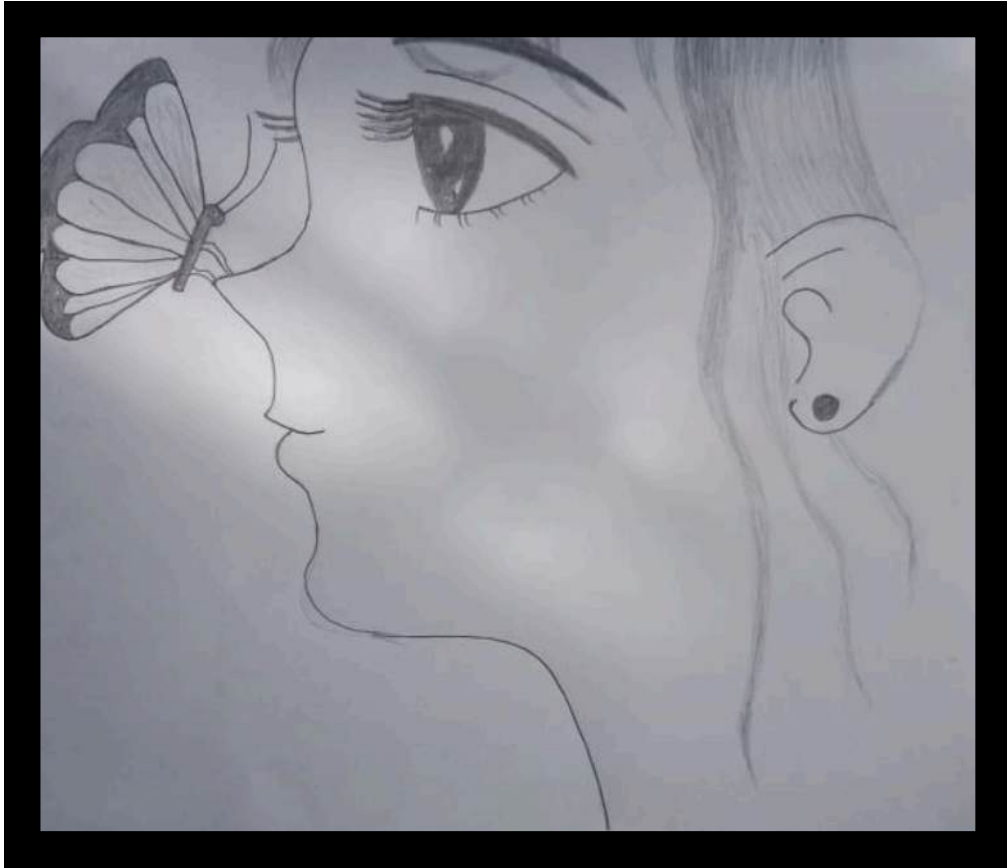
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P.J.Swetha,
IV Year ECE-'B'



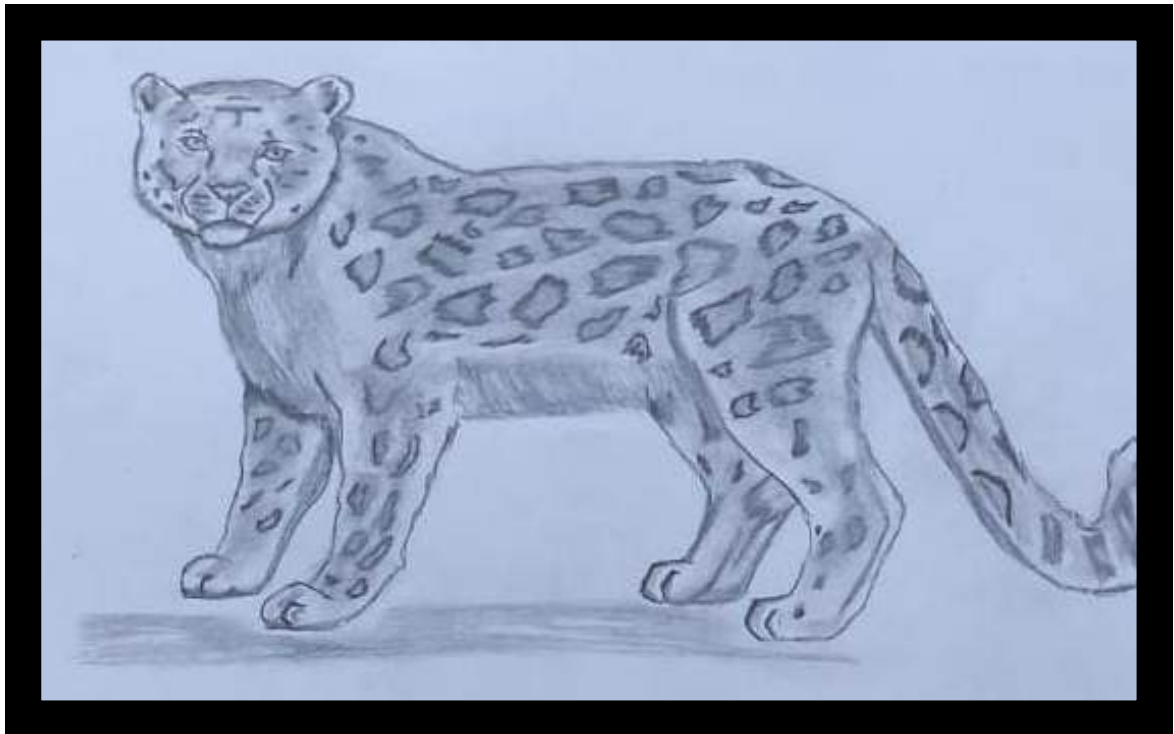
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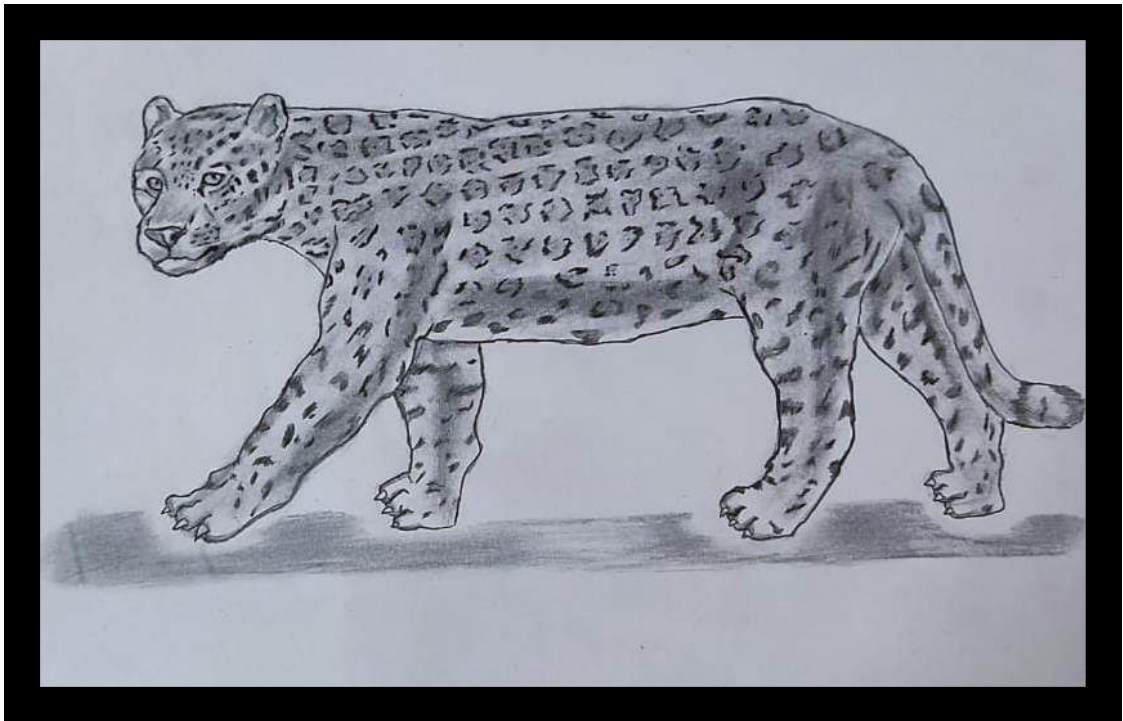
BY;
P.J.Swetha,
IV Year ECE-'B'



BY;
Sharmi.K.T
III Year ECE-'B'



BY;
Ishwarya
IV Year ECE -'A'



BY;
Ishwarya
IV Year ECE -'A'



BY;
Ishwarya
IV Year ECE -'A'

STUDENT'S ACHIEVEMENT



- ➔ **1st Prize in Rohini Hackathon 2023** conducted by Entudio Private limited, Tirunelveli.
- ➔ **1st Runner - Up in Smart Minds Hackathon 2023** a National Level Competition conducted by Aic - Raise & Niti Aayog, Coimbatore.
- ➔ **1st Runner - Up in TEKYON'23** conducted by Court Road Networkz Systems, Nagercoil.
- ➔ **1st prize in MINI PROJECT EXPO** conducted by ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY at 28 February 2023

- ➔ **Students MANEESHA BEBIL.Jof 3rd year ECE was awarded 2nt prizein the poster presentation competition held at ST.XAVIER’S CATHOLIC COLLEGE OF ENGINEERING AND TECHNOLOGY**
- ➔ **Student KRISHNA S.J of 4th year ECE was awarded 1st prize in the PAPER PRESENTATION competition held at DMI COLLEGE OF ENGINEERING**
- ➔ **Student KRISHNA S.J of 4th year ECE was awarded 1st prize in the MENTAL MARATHON competition held at DMI COLLEGE OF ENGINEERING**
- ➔ **Student KRISHNA S.J of 4td year ECE was awarded 2nt prize in the PAPER PRESENTATIONcompetition held at CAPE INSTITUTE OF TECHNOLOGY**
- ➔ **Student SREE EASWAR.S of 2nd year ECE was awarded 1st prize in the Paper presentation competitionheld at PONJESLY COLLEGE OF ENGINEERING AND TECHNOLOGY**
- ➔ **Student AKHIL N.K of 2nd year ECE was awarded 1st prize in the Paper presentation competition held at PONJESLY COLLEGE OF ENGINEERING AND TECHNOLOGY**
- ➔ **Student S.J.Krishna of final year ECE was awarded 1st prize in the paper presentation competition held at P.E.T College of Engineering**
- ➔ **Student N.NAASIF of final year ECE was awarded 1st prize in the paper presentation competition held at P.E.T College of Engineering**

- Student N.NAASIF of final year ECE was awarded 1st prize in the paper presentation competition held at P.E.T College of Engineering
- Student M.S.Mohammed Siddiq of final year ECE was awarded 2nd prize in the paper presentation competition held at P.E.T College of Engineering
- Student V.Samuel Effrey of final year ECE was awarded 2st prize in the paper presentation competition held at P.E.T College of Engineering
- Students N.MALAR of 3rd year ECE was awarded 2nt prize in the poster presentation competition held at ST.XAVIER'S CATHOLIC COLLEGE OF ENGINEERING AND TECHNOLOGY
- Students Siva Hari, Sreei easwar, mahalakshmi paper presentation second prize DMI COLLEGE OF ENGINEERING

