HINDUSTHAN
EDUCATIONAL AND CHARITABLE TRUST
HICET
ELECTROZEN '21
NEVER EVER GIVE UP....
VOLUME-6| A Product by ECEian's

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

“SUCCESS IS NOT A DESTINY, IT’S A JOURNEY”

Hindusthan College of Engineering and Technology (HiCET) Coimbatore, established in the year 2000 by the great Industrialist and Philanthropist, Thiru.T.S.R.Khannaiyann of Hindusthan Educational Trust whose determination and dynamism made possible the realization of this institution of excellence. Surrounded with natures pristine beauty and an excellent infrastructure coupled with dedicated and experienced faculty has made the campus a much sought-after abode of learning. HiCET is one of the premier technological institutions inculcating quality and value based education through innovative teaching learning process for holistic development of the Students. The institution is recognized under Section 2(f) and 12B of University Grants Commission (UGC) and is an autonomous institution affiliated to Anna University , Chennai with permanent affiliation for most of the programmes, approved by the AICTE and the Government of India. Accredited by the National Assessment and Accreditation Council (NAAC) with ‘A’ grade, National Board of Accreditation (NBA).

Department of Electronics and Communication Engineering

VISION OF THE DEPARTMENT

To nurture Electronics and Communication Professionals with exemplary technical skills adorned with ethical values.

MISSION OF THE DEPARTMENT

» To expand frontiers of knowledge through the provision of inspiring learning environment

» To develop the intellectual skills towards employability by fostering innovation, and creativity in learning.

» To provide a quality system for wholesome learning to achieve progress and prosperity in life along with moral values

PROGRAM EDUCATIONAL OBJECTIVES [PEO]

Preparing graduates to,

PEO 1: To prepare the graduates to solve, analyze and develop real time engineering products by providing strong foundation in the fundamentals of Electronics and Communication Engineering

PEO 2: To prepare the graduates to succeed in multidisciplinary dimensions by providing adequate trainings and exposure to emerging technologies

PEO 3: To prepare the graduates to become a successful leader and innovator following ethics with the sense of social responsibility for providing engineering solutions

PROGRAM SPECIFIC OUTCOMES [PSO]

1.Graduates will be able to provide solutions for real time embedded systems using Internet of Things to meet the global needs.

2.Graduates will have the perseverance to design and develop products using cutting edge technologies in Signal processing and Communication systems.

Head of the Department's Desk

"Education is the passport for tomorrow, for the future belongs to those who prepare for it today"

Providing ample opportunities in engineering education is one of the most fundamental obligations we owe to our students because in our department, we are driven by the belief that every student deserves a high quality education.

ELECTROZEN provides an intersection of great challenge and opportunity for the students to review their efforts and to analyze their achievements in research and development. Technology is evolving at a dizzying rate and our classrooms may not be designed to keep pace with it. There may be a lot wrong in the style of education but the pages of ELECTROZEN tell the tale of all that has been a part of what is right about the education they get in our department and in the institute.

I congratulate the team of students and the faculty for their tireless efforts that have come to fruition in the form of this magazine. I wish it all success and hope that this tradition that has been set by the current will be carried through by the following generation of students to come.

P. Rajeswari

Dr. P. RAJESWARI

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ARTICLES

DEPTH OF LIFE

In the art of journey towards our life, everyone wish to attain their life fulfilled with great joy, love and miracles. But our life never supposed to be the same, every circumstance in our life gets changed. We need to face both good and odd phases in our life. Because the world is full of opposite, in other words for every action there is an equal and opposite reaction.

Let us compare our life with a tree, a tree will bloom their leaves in spring and they start to spread their fragrance everywhere, but if autumn falls trees start to shed their leaves and they lose it's own fragrance. But still with a great hope, trust and patience they again started to bloom when spring comes,the same way we are happily celebrating our life. Sometimes in life we have our own misery, insecurity, self doubts and a biggest fear of losing our own self. But trust me our life is a great teacher it teaches us the most valuable and ever lasting lessons where our education system and our society failed to teach us. When we start applying those great lessons in our life we tend to overcome our fears one by one. Every odd circumstances in our life squeeze you, mould you and brings out the best version in you.

"life isn't happening to you life is responding to you"- RHONDA BYRENE

Always train your mind to see possibilities and be grateful for every single moment and finally be the mental architect of your own destiny.

P.Rishikanth

IV ECE C

Machine Learning

Machine learning is the latest buzzword sweeping across the global business landscape. It has captured the popular imagination, conjuring up visions of futuristic self-learning AI and robots. In different industries, machine learning has paved the way for technological accomplishments and tools that would have been impossible a few years ago. From prediction engines to online TV live streaming, it powers the breakthrough innovations that support our modern lifestyles.

1**. Social Media Features**

Social media platforms use machine learning algorithms and approaches to create some attractive and excellent features. For instance, Facebook notices and records your activities, chats, likes, and comments, and the time you spend on specific kinds of posts. Machine learning learns from your own experience and makes friends and page suggestions for your profile.

2. **Product Recommendations**

Product recommendation is one of the most popular and known applications of machine learning. Product recommendation is one of the stark features of almost every e-commerce website today, which is an advanced application of machine learning techniques. Using machine learning and AI, websites track your behavior based on your previous purchases, searching patterns, and cart history, and then make product recommendations.

3. **Sentiment Analysis**

Sentiment analysis is one of the most necessary applications of machine learning. Sentiment analysis is a real-time machine learning application that determines the emotion or opinion of the speaker or the writer. For instance, if someone has written a review or email (or any form of a document), a sentiment analyzer will instantly find out the actual thought and tone of the text. This sentiment analysis application can be used to analyze a review based website, decision-making applications, etc.

4. **Automating Employee Access Control**

Organizations are actively implementing machine learning algorithms to determine the level of access employees would need in various areas, depending on their job profiles. This is one of the coolest applications of machine learning.

6**. Marine Wildlife Preservation**

Machine learning algorithms are used to develop behavior models for endangered cetaceans and other marine species, helping scientists regulate and monitor their populations.

Poorani R,III ECE B

Augmented Reality

Augmented reality overlays digital content and information onto the physical world as if they're there with you, in your own space. AR opens up new ways for your devices to be helpful throughout your day by letting you experience digital content in the same way you experience the world. It lets you search things visually, simply by pointing your camera at them. It can put answers right where your questions are by overlaying visual, immersive content on top of your real world.

We can experience the augmented reality world in reality, do shopping, gaming, medical practicing, repairing maintenance, design, modeling, business logistics.

The implementation of augmented reality in consumer products requires considering the design of the applications and the related constraints of the technology platform. Since AR systems rely heavily on the immersion of the user and the interaction between the user and the system, design can facilitate the adoption of virtuality. For most augmented reality systems, a similar design guideline can be followed. The following lists some considerations for designing augmented reality applications.

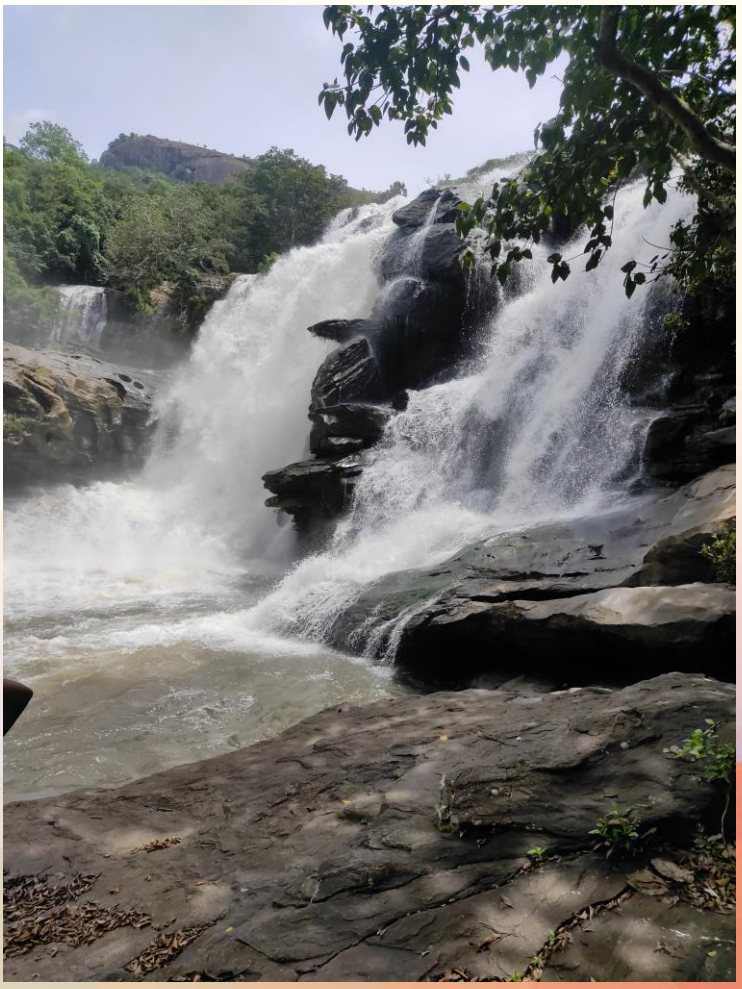
The concept of modern augmented reality depends on the ability of the device to record and analyze the environment in real-time. Because of this, there are potential legal concerns over privacy. While the FAUSC (First amendment to the united states constitution) allows for such recording in the name of public interest, the constant recording of an AR device makes it difficult to do so without also recording outside of the public domain. Legal complications would be found in areas where a right to a certain amount of privacy is expected or where copyrighted media are displayed.

In terms of individual privacy, there exists the ease of access to information that one should not readily possess about a given person. This is accomplished through facial recognition technology. Assuming that AR automatically passes information about persons that the user sees, there could be anything seen from social media, criminal records, and marital status.

S.B.Ranjith
IV ECE C

Photography

G.J.DELIN, ECE – III



SRUTHII.R, ECE – III

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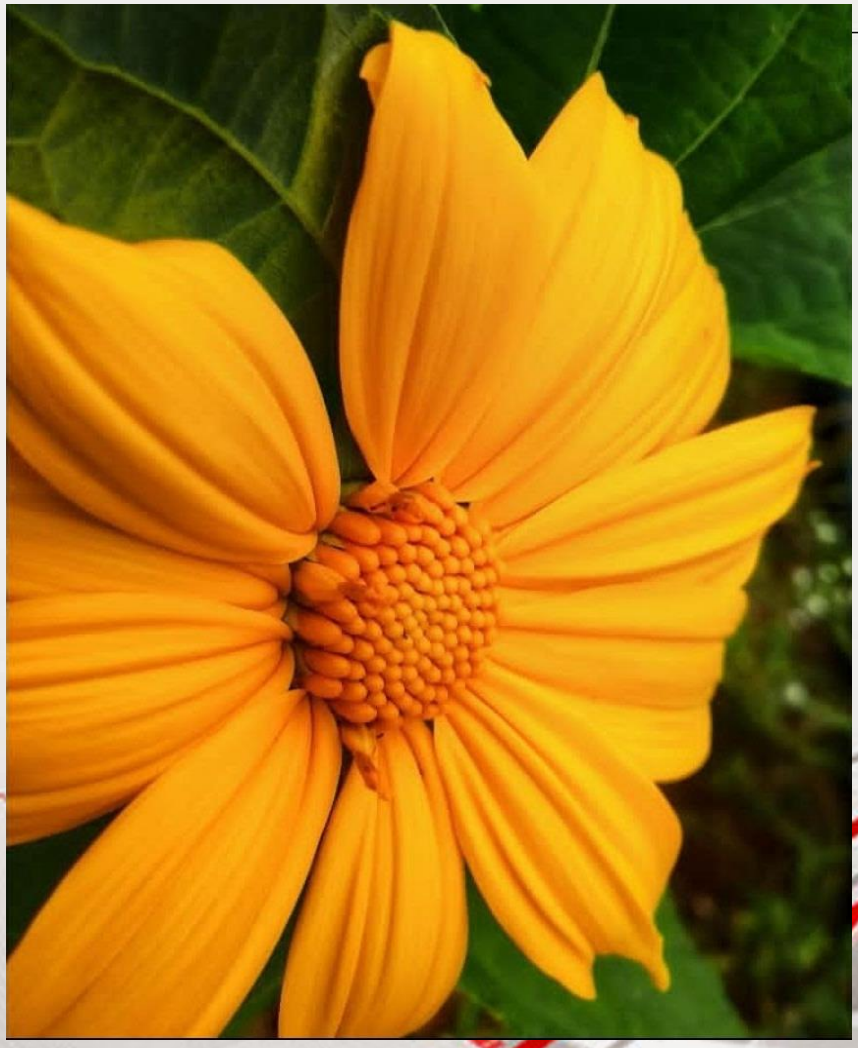

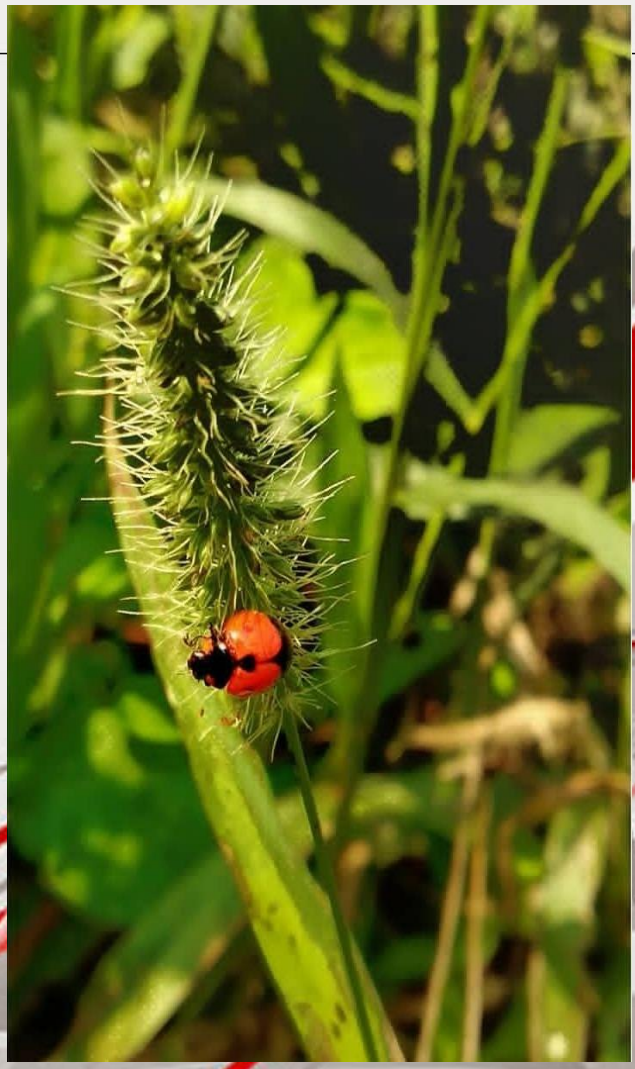

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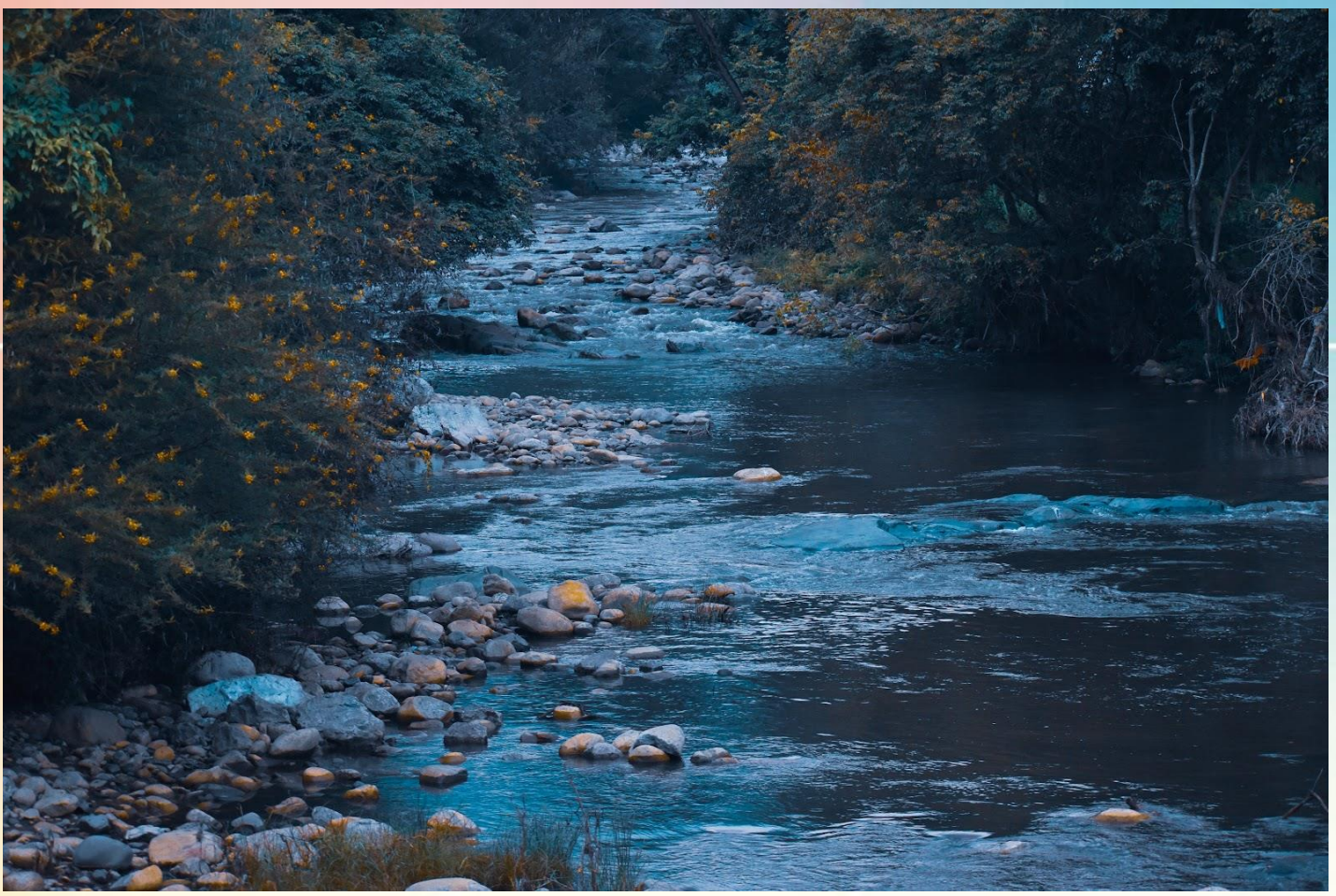

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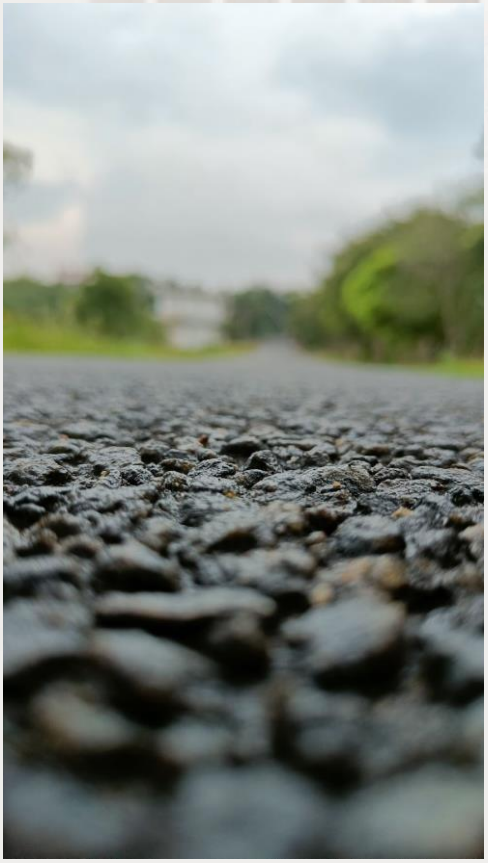
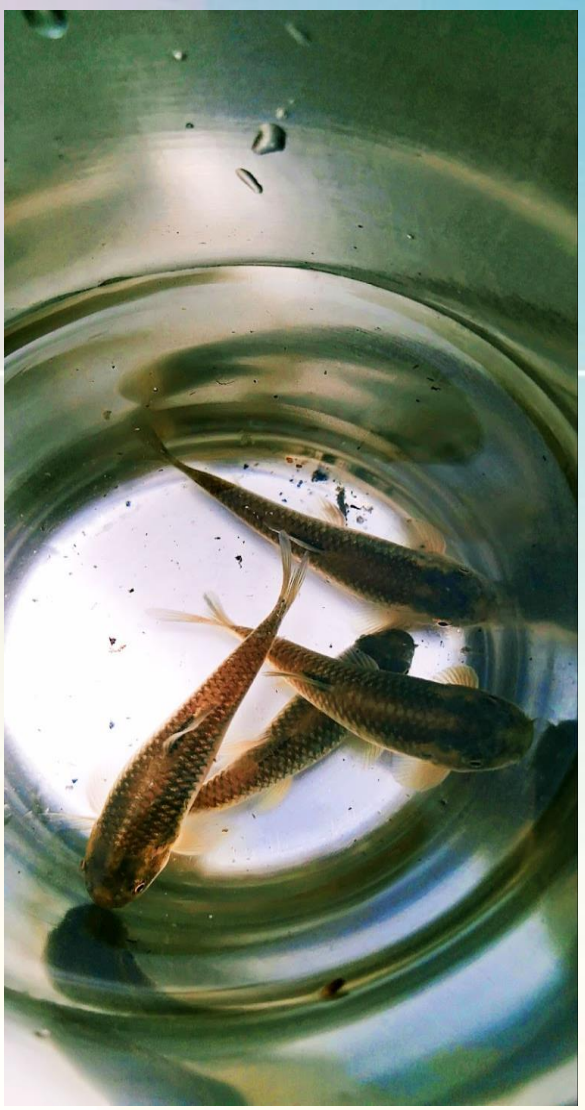


MONISHA.R, ECE – II



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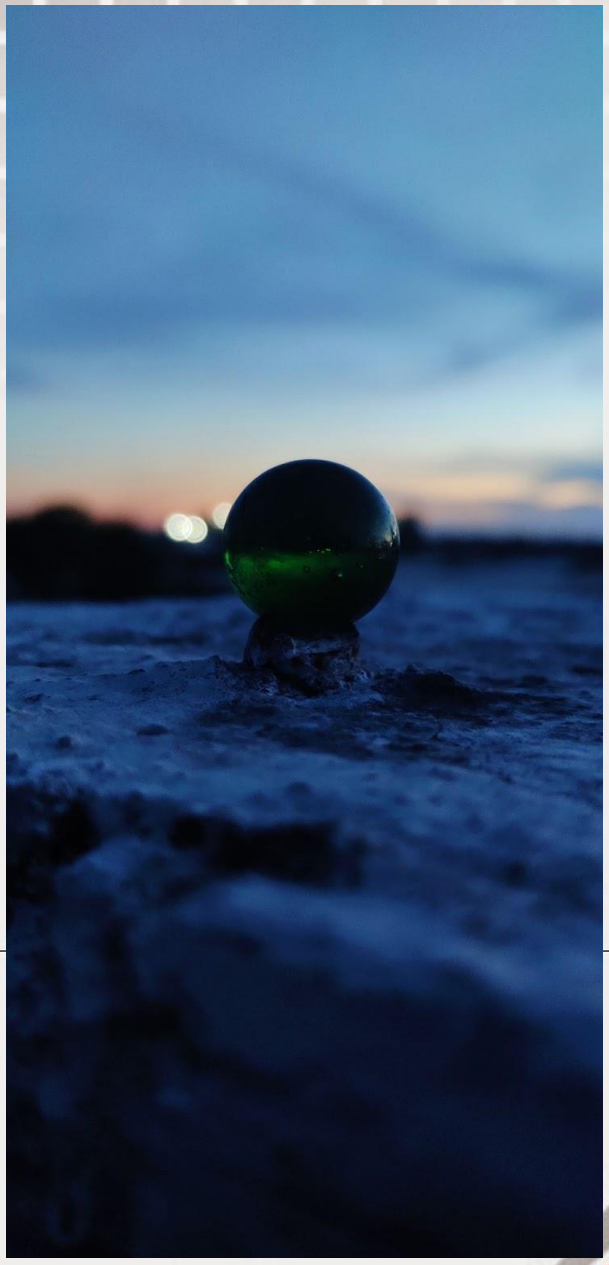
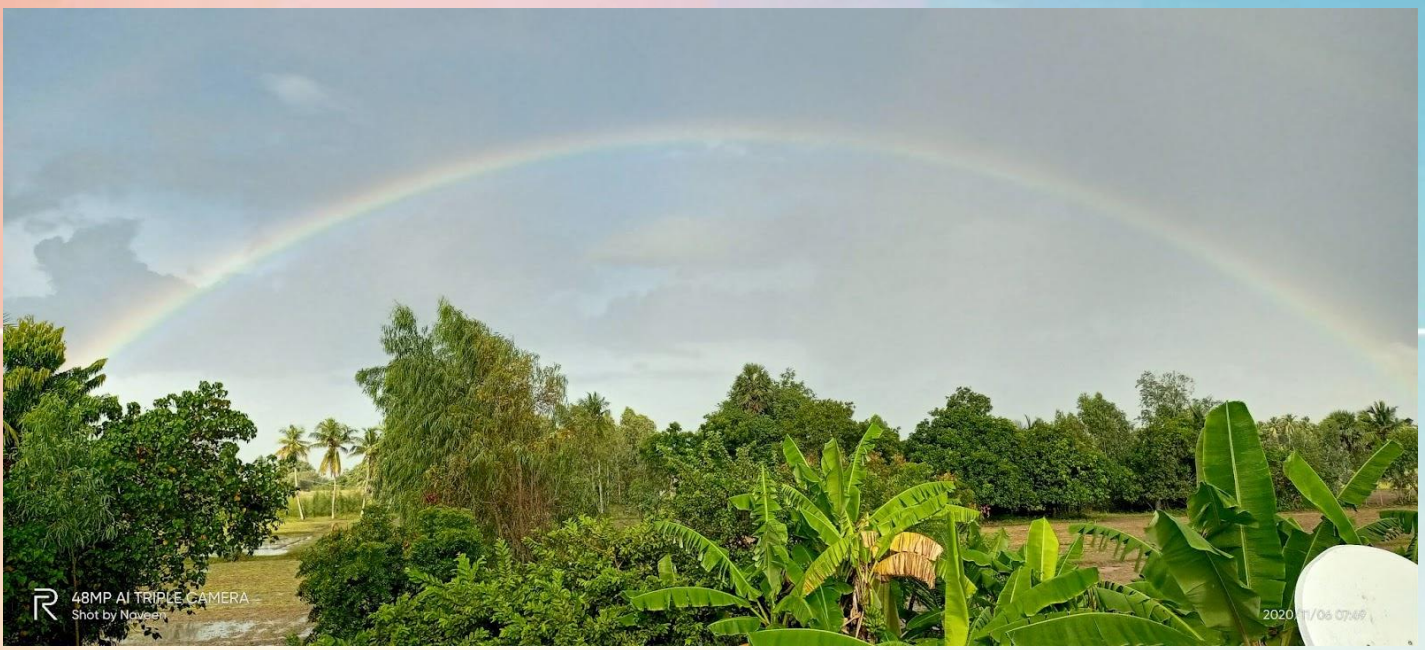
ROHUL SIBI, ECE - II



MOURISH MANO RANJAN, ECE - II



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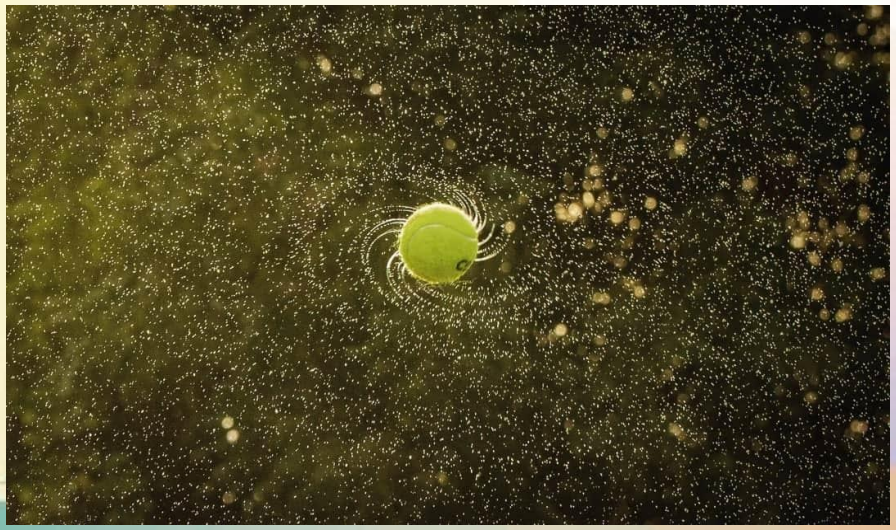

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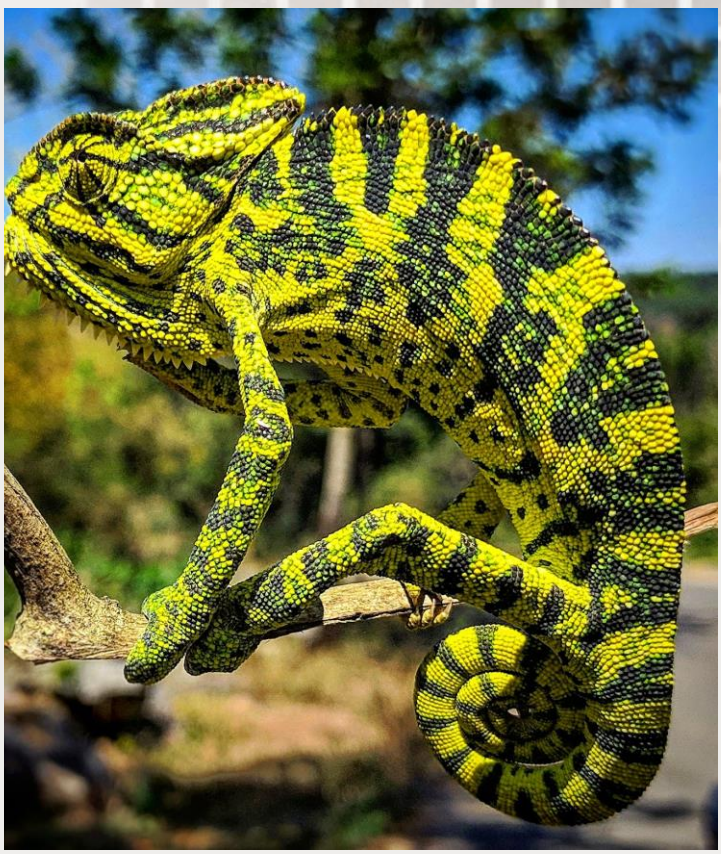
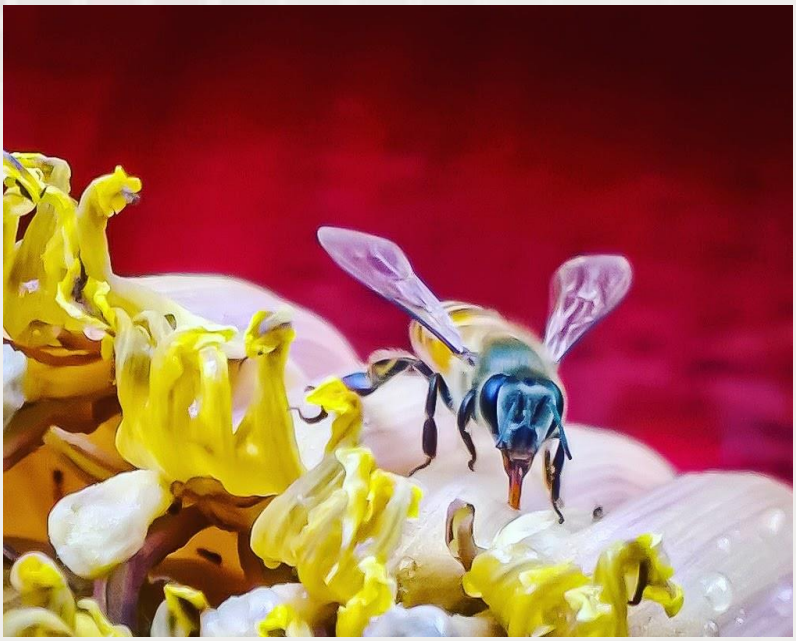




MANIKANDAN S, ECE - I

TAMILAMUDHAN.T, ECE - I

Poetic

WOMEN EMPOWERMENT

Women empowerment surely has advantages.

It gives them equal status compared to men which creates a frictionless environment for women. Secondly, it makes women financially independent which is very important in this era.

Moreover, her empowerment helps her to get rid of social violence and atrocities against her. It can help her to fight for her rights.

Rishikanth.P
IV ECE C

Time And Tide Waits For None

The world full of DARK devour,
out of it came mortal cure.
in the form of FLESH and BLOOD,
her crazy look could make you flood.
The dark eyebrows and flirty EYES,
made me forget all TRUTH and LIES.
blessed with mole on her juicy lips,
pulled me forth to wish a KISS.
the sweet melodic voice of iher,
enchanted me like HOLY chair
her combo with specs on,
gave perfect shape to ponder on.
Rose introvert, no words did come,
me and my feelings slipped the fun,
TIME and TIDE waits for none.

R.Sruthii
III ECE C

THE FEELING OF GETTING LOST IN A BOOK

It's not the first time happening to
and I am sure not to you as well.
A book that just swallows our heart
and soul as we dwell.
It takes us to a place
we've never been.
We surrender
to a niche that's unseen
We advent to live that life
which the characters play.
We reckon with another person's mind
and we endure it the same way
We endlessly think about it
and it impels to stretch our minds.
We get so relinquished
when mind dupes us with rewinds
A promising book starts to
whisper you from the wall.

You get so lost in reading

you don’t recall who you are at all!

We hear the voices

instead of reading

We reel the emotions

instead of imagining

We live a hew life

inside a book

We get attached to the world inside it like a hook

The book holds us between

it's pages,

as if we've escaped from our reality i.e., our Cages!

Ranjith.S.B

IV ECE C

அம்மா

என் முகம் பார்க்கும் முன்பே!
என் குரல் கேட்கும் முன்பே!
என் குணம் அறியும் முன்பே!
என்னை நேசித்த ஓர் இதயம்
அவள் உயிரை வருத்தி உயிர் தந்தவள்
உடல் வருத்தி உணவு கொடுத்துவாள்
தன் உறக்கம் மறந்து உறங்கச் செய்தவள்
அன்று நம் தொப்புள் கொடியை
அறுத்தது நம் உறவை பிரிக்க அல்ல
அது நம் பாசத்தின் தொடக்கத்திற்கு
வெட்டப்பட்ட ரிப்பன்.
அம்மா மீண்டும் மாறிவிட ஆசை
குழந்தையாக, கையில் இல்லை
உன் கருவறையில்

S.Sivaprakash
III ECE C

மழை

வானத்தில் இருந்து வந்தத்து மழை,
அதனால் நினைத்து சாலை,
மணியும் இப்போது காலை,
என் மனமும் ஆகுது பூ மலை,
பச்சை நிறத்தில் இருந்தது இலை,
இதன் மூலம் நான் அறிந்தேன் ஓர் கலை,
நானோ ஒரு கோலை,
நான் சாப்பிட்டேன் சோலை,
காலையில் வந்துது வேலை,
அதை முடித்ததும் வீட்டில் ஒரே தொல்லை,
உன்னை பார்த்து நானும் ஆகினேன் சிலை

Roghinico

III ECE C

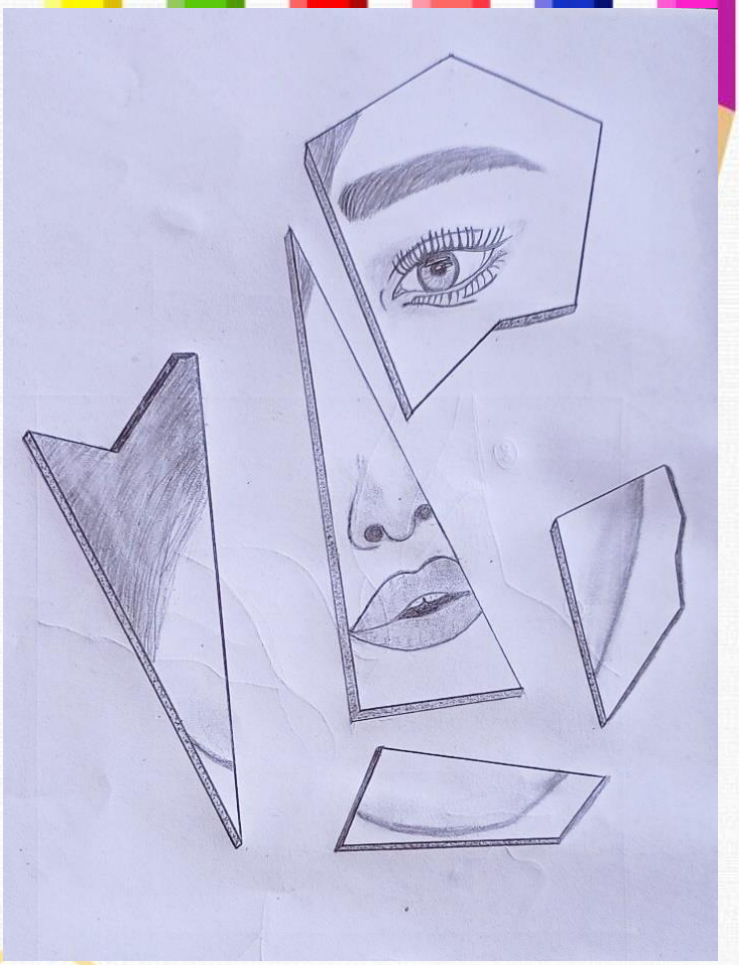
அருவி

அருவி அருவி அருவி
மேலிருந்து கீழே விழுந்தது அருவி!
கீலிருந்து மேலே போனது குருவி
காட்டுல இருக்கு மானு,
அருவியில் இருக்கு மீனு!
பறக்க தெரியாது நாரை,
உனக்குல் இருக்கு பாறை!
அருவிக்கு ஏது பாதை
கள்ளுல இருக்கு போதை
இதை கண்ட நான் ஒரு மேதை.....!!!!

Monisha.R

II ECE B

Art



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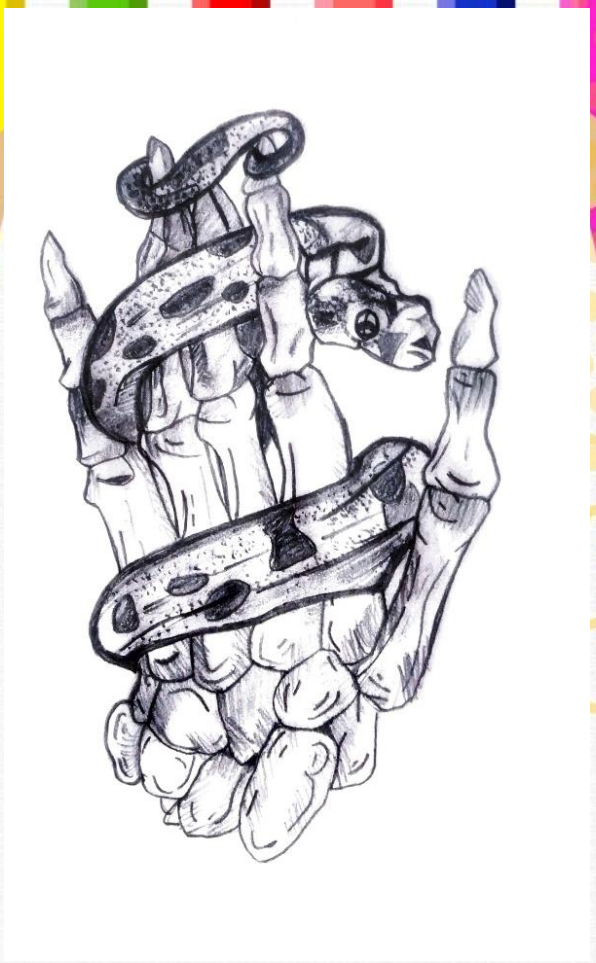
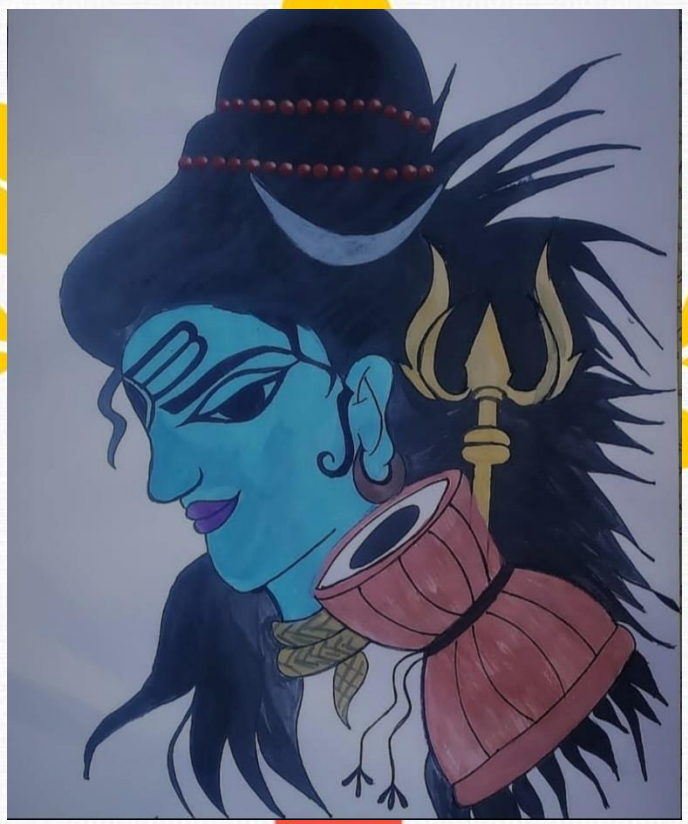


Sruthii III, ECE C

Subiksha, III ECE C



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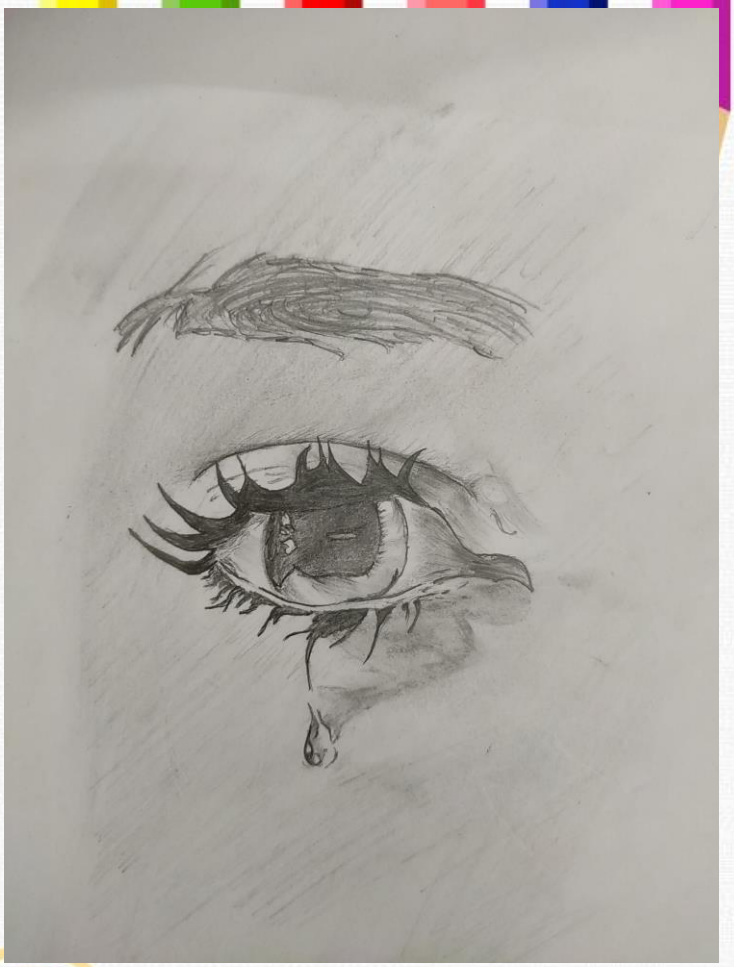

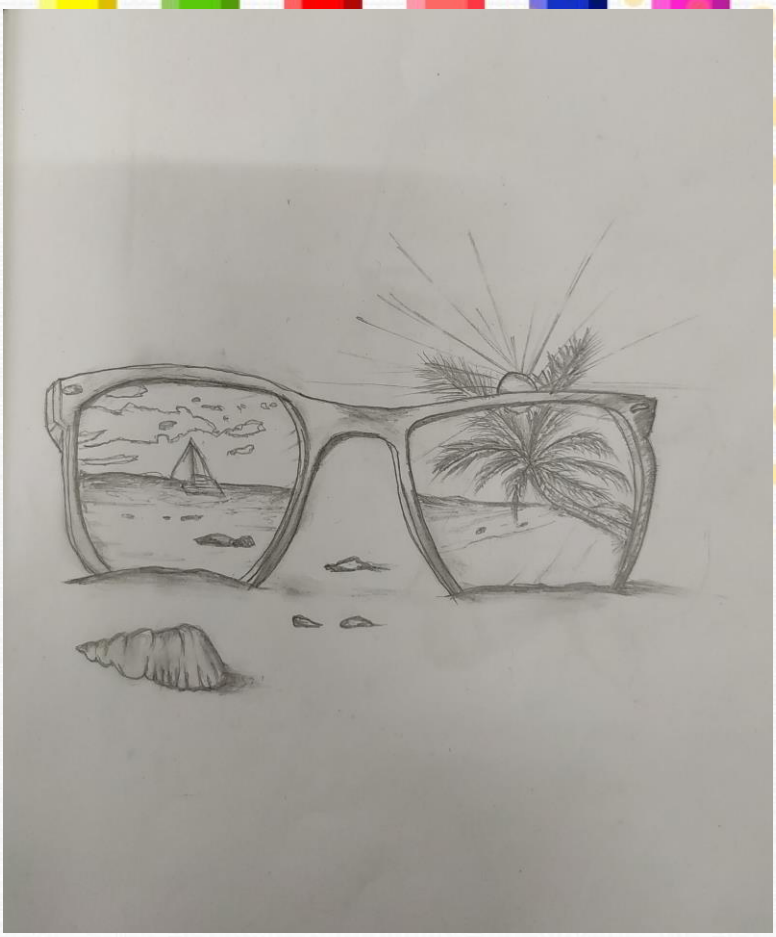

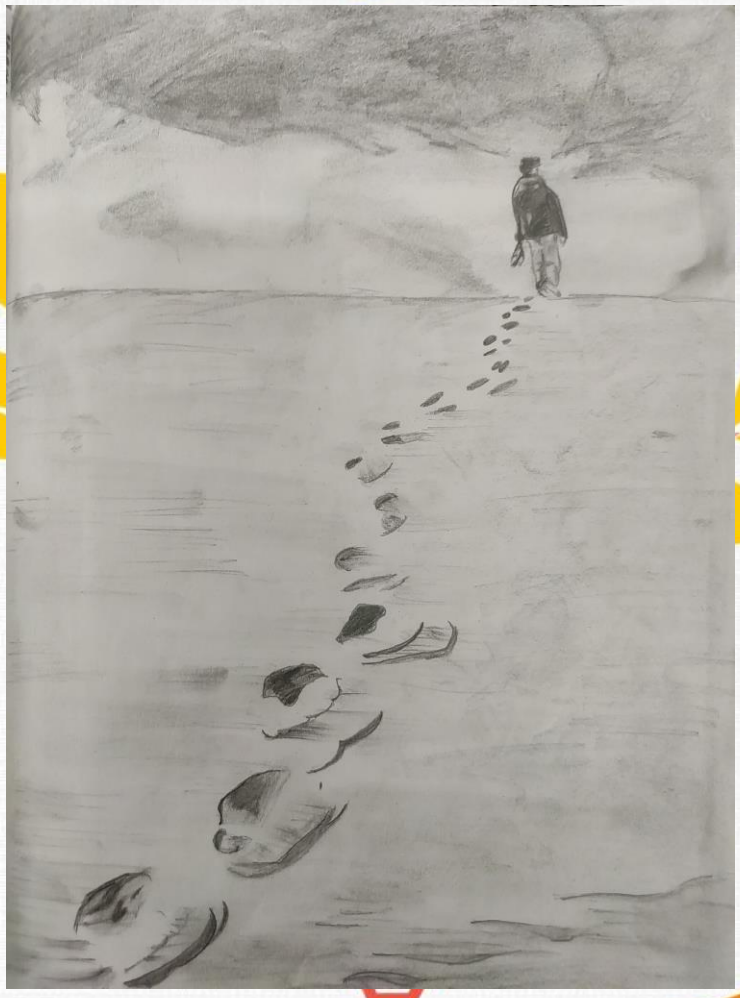

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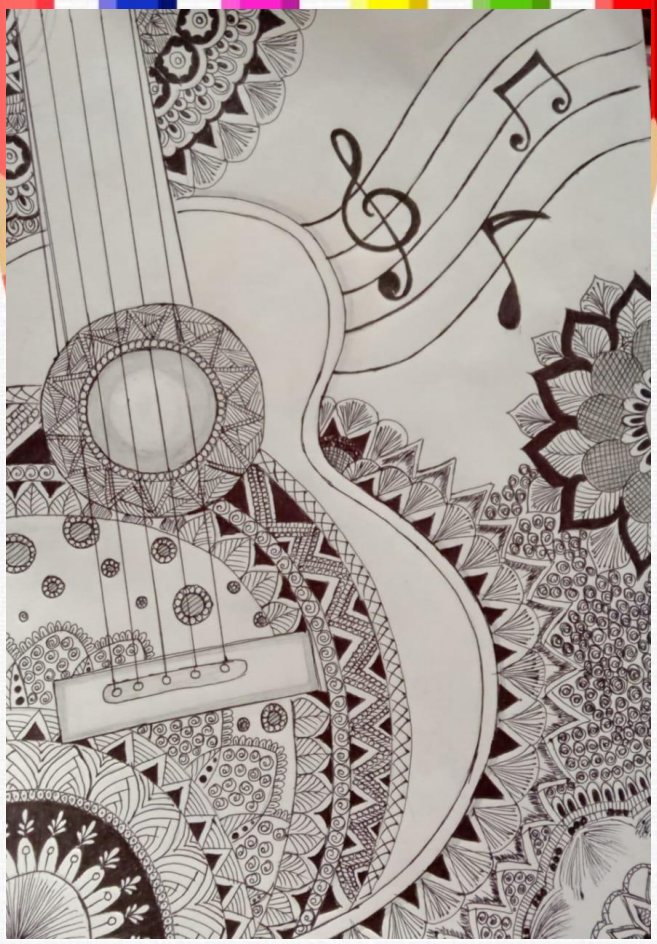
Koushika.M, I ECE B



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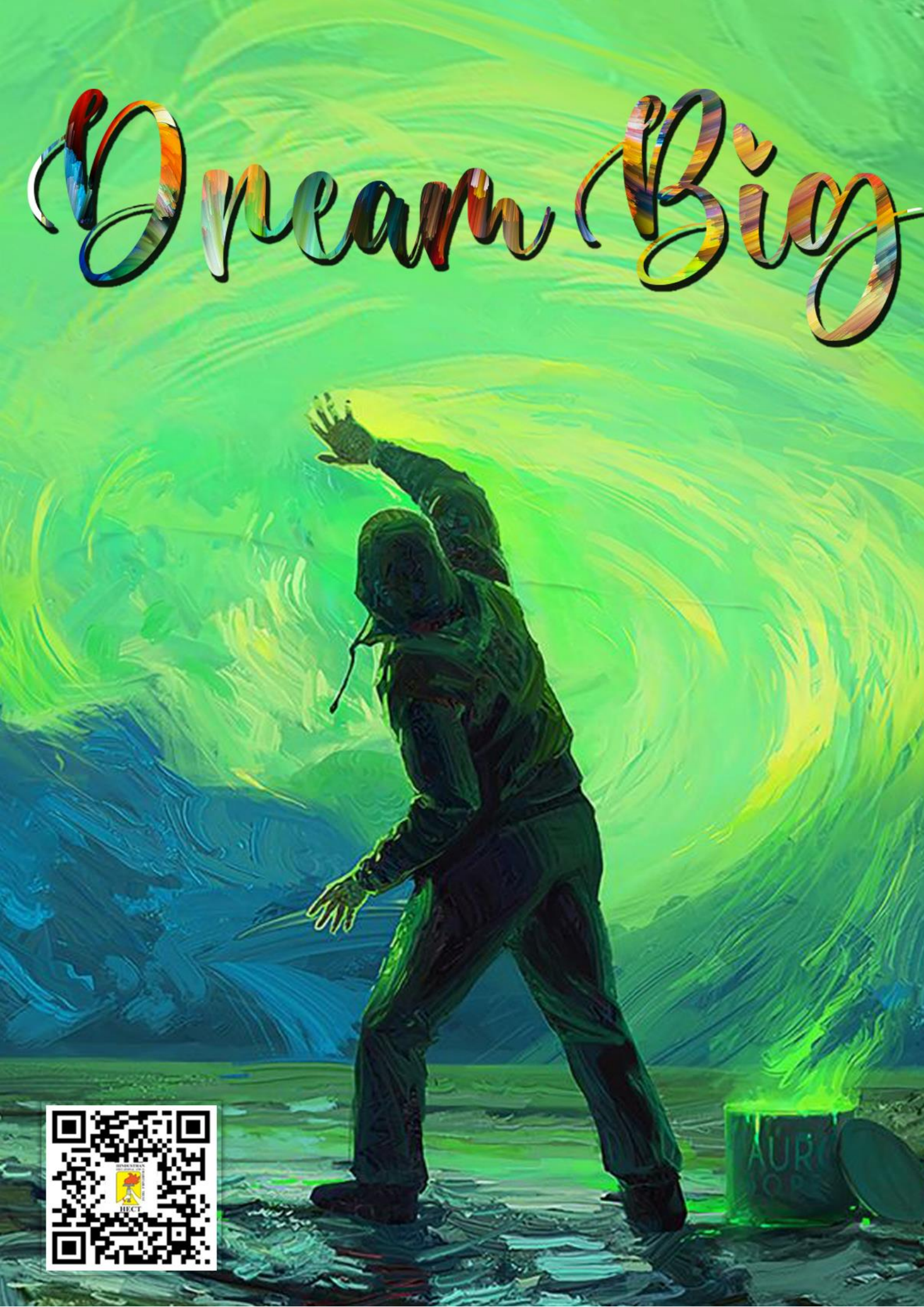
Dream Big