



# B. P. PODDAR INSTITUTE OF MANAGEMENT AND TECHNOLOGY

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Bengal 700052 (Approved by AICTE, New Delhi & Affiliated to  
MAKAUT, W.B)

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

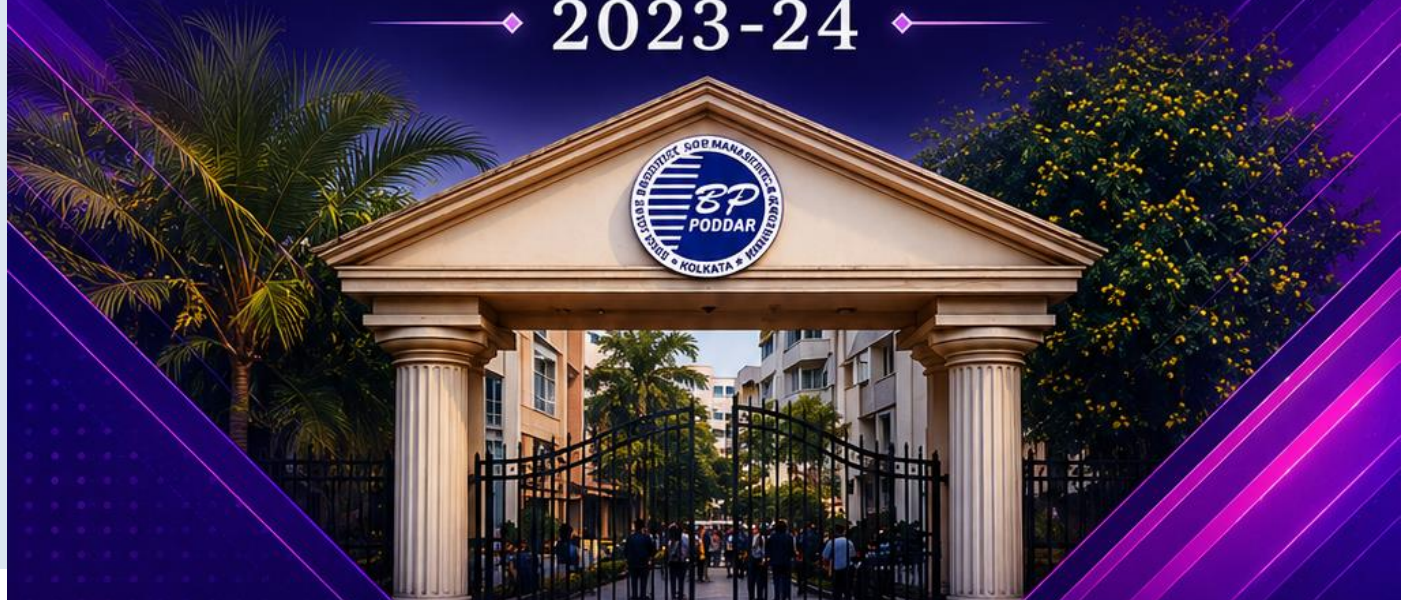


Presents

# TARANGA

ANNUAL MAGAZINE

2023-24



# CONTENTS

- ***DRAWINGS***
- ***ESSAYS***
- ***POEMS***
- ***PHOTOGRAPHS***
- ***MEMES***
- ***QUIZ***
- ***FUN FACTS***
- ***PUZZLES & RIDDLES***

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***Contributors: Students and faculty members***



## ***Message from HOD***

It is with immense pride and joy that I present the newest edition of the Electronics and Communication Engineering (ECE) Department's magazine. This publication is a vibrant reflection of our students' academic rigor, boundless creativity, and unwavering passion for discovery.



The landscape of ECE is evolving at an unprecedented pace, driving innovations that continually reshape our world. In this dynamic era, it is imperative for our young minds to not only stay abreast of modern breakthroughs but also to cultivate sharp problem-solving abilities and a lifelong curiosity.

This magazine stands as a proud showcase of what our students can achieve. Through insightful articles, artistic expressions, and a comprehensive review of our departmental milestones, it captures the perfect harmony between intellect and imagination—a balance that is vital for shaping well-rounded professionals.

I commend the editorial board for their meticulous work and dedication in bringing this beautiful edition to fruition. Furthermore, I extend my deepest gratitude to our esteemed faculty members; your steadfast mentorship and encouragement are the guiding forces behind our students' continued success.

May this publication inspire every reader to challenge the status quo, dream bigger, and make impactful contributions to their chosen professions.

### **Dr. Ivy Majumdar**

Head of the Department

Department of Electronics and Communication Engineering

## ***Editor's note***

It is with immense pride and a profound sense of responsibility that I present the Annual Magazine '*Taranga*' of the Department of Electronics and Communication Engineering at B.P. Poddar Institute of Management and Technology for the academic year 2023–2024.

Far more than a simple compilation of articles and photographs, this magazine serves as a mirror reflecting the vibrant spirit, creativity, and intellectual curiosity that define our department.

The journey of curating this edition has been as challenging as it has been rewarding. This endeavour would not have been possible without the remarkable contributions of our talented students, whose enthusiasm and creativity form the very heartbeat of this publication.

I extend my deepest gratitude to every contributor for sharing their voice and making this magazine truly meaningful. I am equally thankful to our esteemed faculty members for their unwavering support and guidance throughout this process. Their continuous encouragement has been instrumental in shaping this edition. A special note of appreciation also goes to the editorial team for their tireless hard work, seamless coordination, and shared commitment to bringing this vision to life.

As you flip through these pages, I hope you discover inspiration, gain new perspectives, and feel a deepened sense of belonging to our ECE community.

Happy Reading!



## ***About College and Department***

In 1999, B.P Poddar Institute of Management and Technology (BPPIMT) was established as a tribute to late B. P. Poddar, a visionary philanthropist, educationist and founding father of the group.

Supported by the B. P. Poddar Foundation for Education, a trust dedicated to enrich the quality of technical education in the country, the institute is affiliated to the Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT) and approved by the All India Council for Technical Education (AICTE).

The Department of Electronics and Communication Engineering at B.P. Poddar Institute of Management and Technology stands as a dynamic center of academic excellence, innovation, and technological advancement. Since its inception, the department has been committed to nurturing skilled engineers equipped with strong theoretical foundations and practical expertise.

The department offers a comprehensive curriculum that spans core areas such as analog and digital communication, signal processing, embedded systems, VLSI design, and emerging fields like IoT and artificial intelligence.

Well-equipped laboratories, experienced faculty members, and an industry-oriented approach create an environment that fosters critical thinking and problem-solving skills. The department actively promotes participation in technical events, workshops, seminars, and industrial visits, enabling students to bridge the gap between classroom knowledge and real-world applications.

In addition to academic excellence, the department focuses on the holistic development of students by encouraging teamwork, creativity, and leadership through various co-curricular and extracurricular activities. Students are also motivated to take part in national-level competitions, hackathons, and research initiatives.

The Department of Electronics and Communication Engineering continues to strive towards excellence by adapting to evolving technological trends and preparing students to contribute effectively to the ever-growing field of engineering and innovation.



**Faculty and Staff Members of the Department of Electronics & Communication Engineering**



## B. P. Poddar Institute of Management & Technology Department of Electronics & Communication



### Vision, Mission, PEO, PO, PSO

#### Vision of the Institute

To emerge as a progressive and premier institute for Engineering and Technology education with ethical values for creative engineering solutions with global changes.

#### Mission of the Institute

1. Offer quality education through a modern accessible, comprehensive and research oriented teaching-learning process.
2. Create opportunities for students and faculty members in acquiring knowledge through research and development.
3. Providing effective interface with industry by strengthening Industry- Institute interaction and developing entrepreneurial skills.
4. Meet ever-changing needs for the nation through rational evolution towards sustainable and environment friendly technologies.

#### Vision of the Department

To emerge as a premier department for studies in Electronics and Communication Engineering.

#### Mission of the Department

1. Imparting innovative educational program through laboratory and project-based teaching-learning process for meeting the growing challenges of industry and research.
2. Providing an inspiring and conducive learning environment to prepare skilled and competent engineers and entrepreneurs for sustainable development of the society.
3. Creating a knowledge centre of advance technologies committed to societal growth using environment-friendly technologies

#### Program Educational Objectives:

**PEO1:** Graduates of Electronics and Communication Engineering will be able to use latest tools and techniques to analyze, design and develop novel systems and products to solve real life problems.

**PEO2:** Graduates of Electronics and Communication Engineering will have strong domain knowledge, skills and attitude toward employment in core and allied industries, higher studies and research or will become successful entrepreneurs.

**PEO3:** Graduates of Electronics and Communication will exhibit ethical values, professionalism, leadership, communication and management skills, team work and multi-disciplinary approach to adapt current trends in technology through life-long learning.

Program Outcomes (POS)	
1. Engineering knowledge	7. Environment and sustainability
2. Problem analysis:	8. Ethics
3. Design/development of solutions	9. Individual and team work
4. Conduct investigations of complex problems	10. Communication
5. Modern tool usage	11. Project management and finance
6. The engineer and society	12. Life-long learning

#### Program Specific Outcomes (PSO)

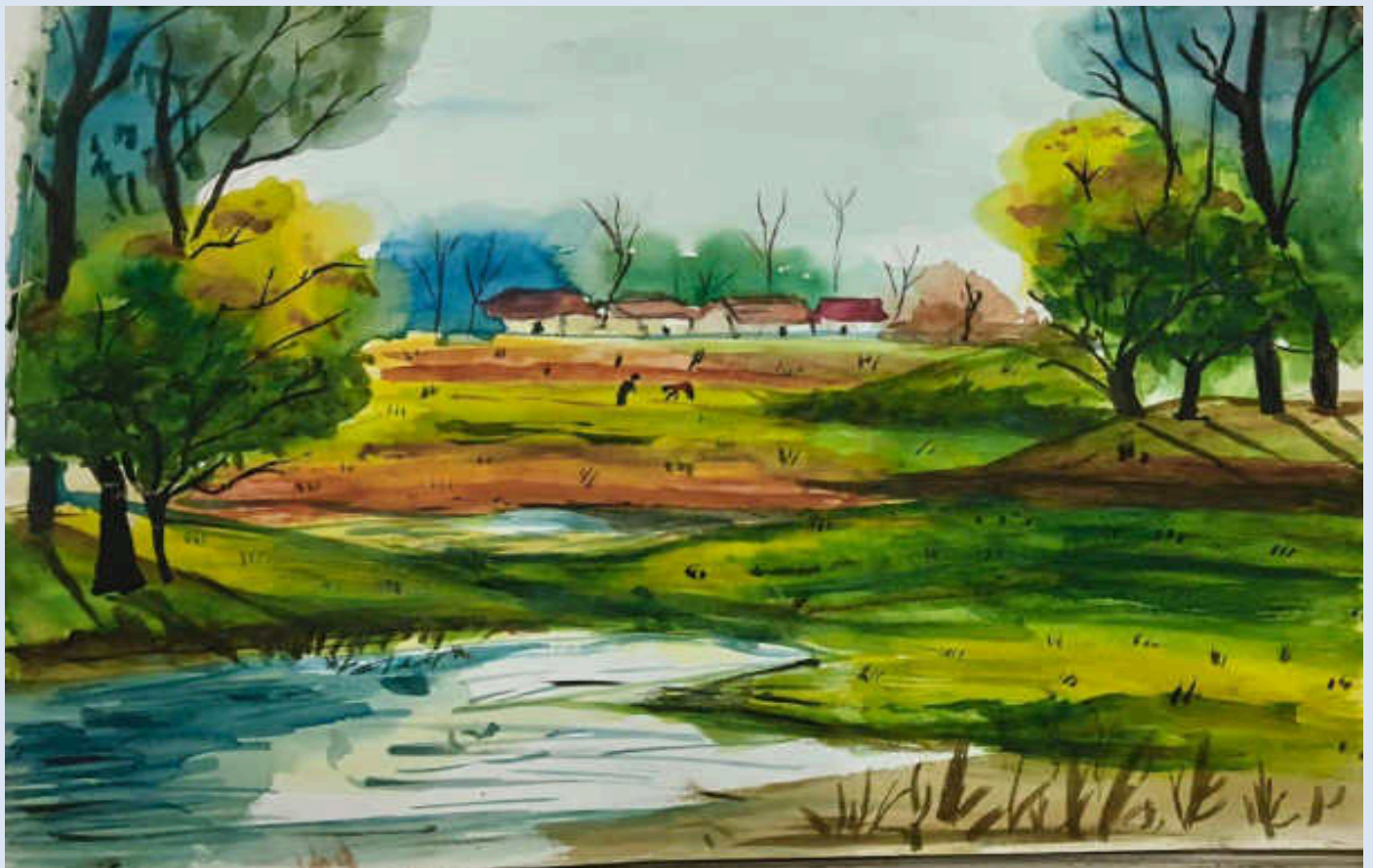
**PSO1:** Students will acquire knowledge in Advance Communication Engineering, Signal and Image Processing, Embedded and VLSI System Design.

**PSO2:** Students will qualify in various competitive examinations for successful employment, higher studies and research.

# THOUGHTS AND PERSPECTIVES-POTRAYED IN PAINTINGS AND POETRY



-Debosmita Paul, 4<sup>th</sup> year



-Debopriya Mullick, 3<sup>rd</sup> year

those  
were the  
days...

## The Canvas of Now

☆ Within these ivy-shadowed, brick-lined walls,  
Where whispered secrets blend with lecture halls,  
We chase the fleeting ghosts of passing time,  
And weave our youth into a hasty rhyme.

The midnight oil burns bright in dorm room glow,  
As rivers of caffeine and questions flow.  
Yet in the heavy quiet, laughter rings,  
The sudden joy that shared survival brings.

We dissect atoms, argue ancient lore,  
And stand uncertain at tomorrow's door.  
The heavy textbooks hold a world of weight,  
But it's the friendships that decide our fate.

For every sunset watched across the green,  
A thousand quiet moments lived unseen.  
We are the artists of an open sea,  
Sketching the outlines of who we will be.

Too soon, the mortarboards will catch the sky,  
And we will bid this sheltered world goodbye.  
But hold these golden hours, fierce and fast,  
Before the present fades into the past.

The future beckons, vast and softly spun,  
But here, today, our story has begun.

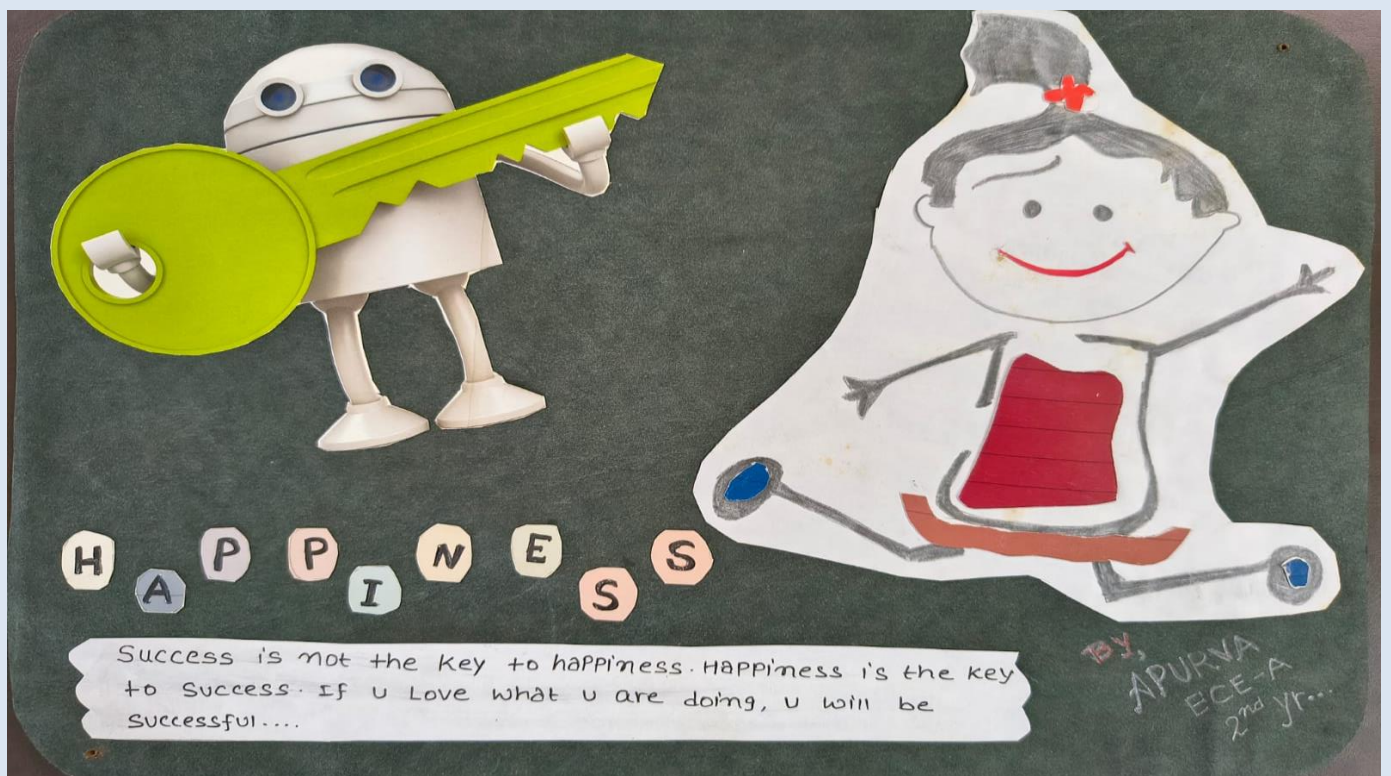
-Urna Banerjee, 2<sup>nd</sup> year



-Disha Saha, 3<sup>rd</sup> year



-Sayani Mallick, 2<sup>nd</sup> year



-Anamika Bhunia, 4<sup>th</sup> year

*Kashmir during August*



- Prof. (Dr.) Ivy Majumdar,  
HOD, ECE

*Kashmir during Spring*



*Kashmir during Autumn*



- Prof. (Dr.) Ivy Majumdar,  
HOD, ECE

- Prof. (Dr.) Ivy Majumdar,  
HOD, ECE

## খুবই দেওয়ান

খুবই ভবিষ্যতের একটা, ইঁটা একটাই খুবই পাতা -  
তখন থেকে আমার চোখের মাঝনে দিখে ধুয়ে থাকে ।  
আটা আকাশটাই চখে ফেনবে মনে হয়, নীল ঘোঁষে এখনই  
একটু খুবই, বনতে বনতেই আমার চোখের আড়ালে চলে গেল।  
আমনে আমি চলে এলাম আড়ালে, একটা দেওয়ান মাঝনে এখন -  
পৃথিবীটো শু ধুরতে ধুরতে এখে একদিন এই অগাধতা কিংবা দেওয়ানটো  
কিছুটা থাকে, একটা আনতো আসনের দুর্গলিঙ্গ থেকে বিধব খুবই  
কিছুটা শুদ্ধ থাকে হতো, একটা মন মনে লাল ইঁটে খাখে সড়কে  
দেওয়ানের সা থেকে,

-Bapan Banik, 3<sup>rd</sup> Year

আলোর প্রান্ত-প্রান্তে চূড়ি-চূড়ি অল্প  
— ফেনতে মরি সজে সাজে, হারিয়ে গেলো সুরসুরে ?  
ছোটো সাজে হারিয়ে গেলো দলদলি দলদলি,  
সজে সাজে সাজে সাজে, সজে আনিয়েছিলে ।  
ছোটো সাজে ছোটো সাজে ছোটো সাজে চলে ।  
আনিয়েছিলে সজে সাজে দেখে দেখি গাছা,  
সাজে সাজে ছোটো সাজে হারিয়ে গেলো চলে ।  
সজে সাজে সাজে সাজে সাজে সাজে সাজে,  
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-Prantik Ghosh, 3<sup>rd</sup> Year

## নীল

সুখের ছবি আঁকছি বসে, নীল কালিতে ওরে,  
আকাশ বলে থাকব নীল বহু কাল ধরে ।  
সকল রঙ ঝলসে গিয়ে নীল হয়েছে গাঢ়,  
বুকের ভিতর নীল জোয়ারে, ঝাপ দিতে পার ।

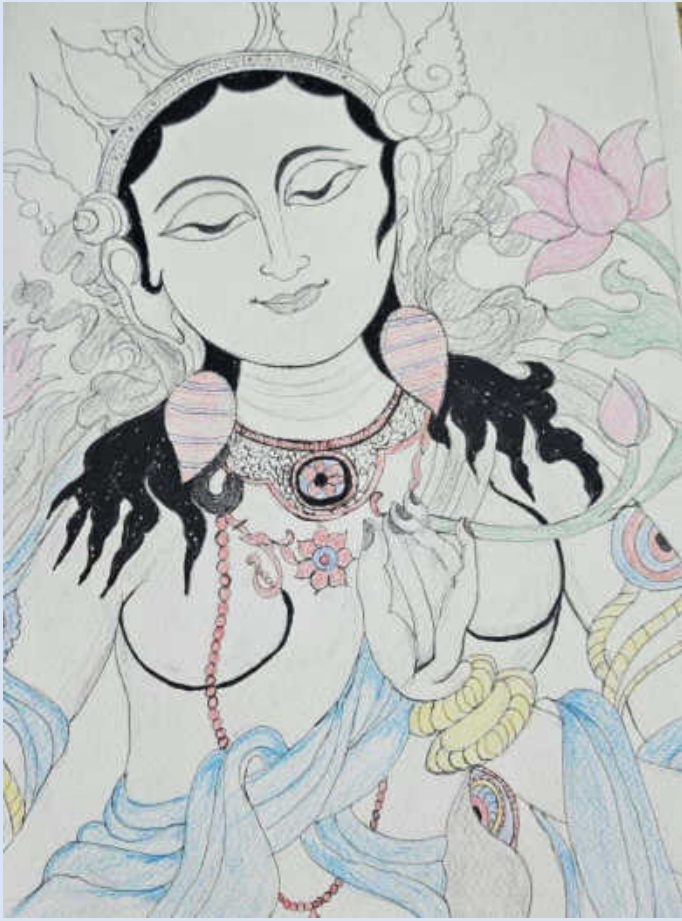
আঁধার কালোয় চোখ বুঝিলে দেখি নীল স্বপন,  
সব রঙ হারিয়ে গিয়ে নীল হয়েছে আপন ।  
মনের রঙ ও নীল হয়েছে, মুখে নিলাভ হাসি,  
নীল আকাশের নীচে তাই নীল জলেতে ভাসি ।

নীল ভাবনার নীল যমুনায় জুড়ায় তপ্ত প্রাণ,  
নীল সাগরে তাই খুঁজে পাই সেই হারানো গান ।  
নীল কুয়াশা আগলে রাখে নীল অনুরাগে,  
নীল ছোঁয়াতে মন যেন আজ নীল মায়ায় জাগে ।

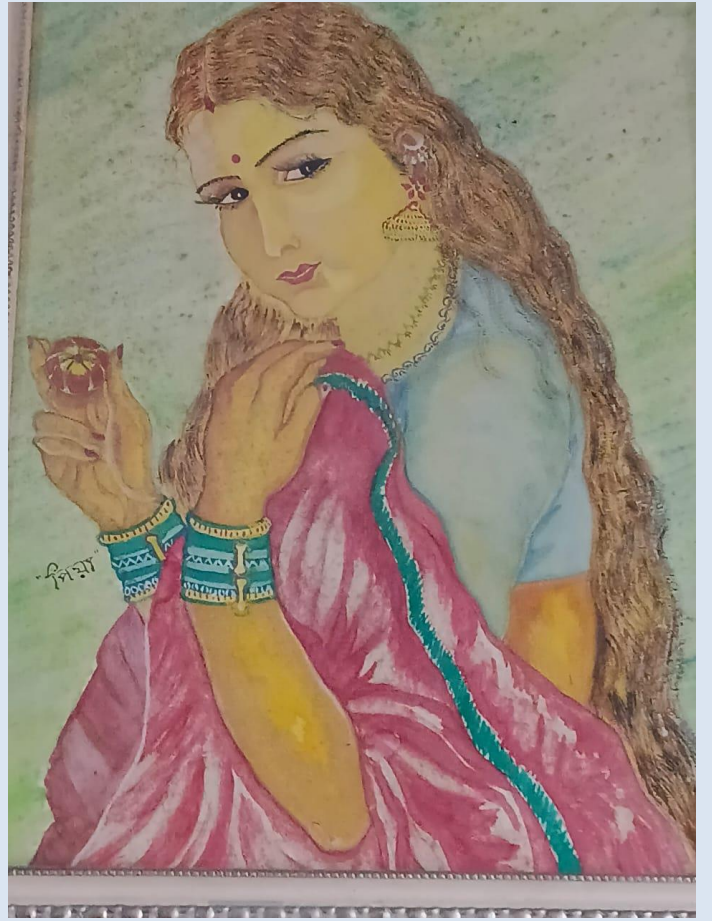
নীল প্রহরের স্মৃতি গুলো নীল নামেতে লেখা,  
অনুভূতির রঙ ও নীল যাচ্ছে না তো দেখা ।  
নীল টুকু মুছেই রাত, চাঁদ হীন হবে,  
নীল পাহাড়ি বৃষ্টি হয়ে হারিয়ে যাবে কবে ?

মাঘের শীতল তুষার হাওয়ায়, শীত কাপানো রাতে,  
বসন্তের ঐ নীল বাতাসে, নীল পাহাড়ের সাথে ।  
নীল সাগরে হারিয়ে যাবো, রাত ফুরোবার আগে,  
নীল রঙেতে তাইতো আজ ভীষণ প্রিয় লাগে ॥

- Tanmay Sil,  
Technical Assistant, ECE



-Dr. Somali Sikder,  
Asst. Prof, ECE



- Ms. Arundhuti Sengupta,  
Asst. Prof, ECE



-Ms. Pia Sarkar,  
Asst. Prof, ECE

## नई उड़ान

सुबह की किरणें जब मुस्काती हैं,  
नई उम्मीदें दिल में आती हैं।  
रास्ते चाहे कठिन बहुत हों,  
हिम्मत वाले फिर भी बढ़ते हों।

सपनों की दुनिया रंगीन बड़ी,  
मेहनत से मिलती हर एक घड़ी।  
ठोकर खाकर जो संभल जाता,  
वही इंसान आगे बढ़ पाता।

आंधी आए या तूफ़ान आए,  
सच्चा मन कभी न घबराए।  
अंधेरों के बाद सवेरा है,  
हर मुश्किल का भी बसेरा है।

दोस्ती की खुशबू प्यारी है,  
जीवन की सबसे बड़ी सवारी है।  
मुस्कान बाँटो, प्रेम जगाओ,  
हर दिल में उम्मीद जलाओ।

नई सोच से नई पहचान बने,  
हर इंसान की अपनी शान बने।  
चलो मिलकर ऐसा कल लाएँ,  
जहाँ सब हँसते गीत सुनाएँ।

-Prasant Jha, 4<sup>th</sup> year



- Madhumita Sarkar,  
Asst. Prof, ECE

# The Last Bench

-Ratul Mukherjee, 3<sup>rd</sup> Year

Every afternoon after classes, Aarav sat alone on the last bench near the college playground. While students laughed, clicked pictures, and hurried toward the canteen, he quietly opened his notebook and wrote stories nobody had ever read.

One rainy evening, he noticed an old man sitting beside him under the broken shelter. The man wore a faded brown coat and carried a small umbrella with missing spokes.

“You write every day,” the man said with a smile.

Aarav nodded shyly. “But I don’t think I’m good enough.”

The old man asked for the notebook. After reading a few pages, he looked up and said, “The world doesn’t need perfect writers. It needs honest ones.”

Those words stayed with Aarav.

The next week, the college announced a literary competition. For the first time, Aarav submitted one of his stories. Days later, during the annual fest, his name echoed through the auditorium as the winner.

Excited, Aarav ran to the playground bench, hoping to meet the old man again. But the watchman told him something strange.

“No one sits there in the evenings,” he said. “That bench has been empty for years.”

Aarav looked down at his notebook. Between the pages lay a small handwritten note he had never seen before:

“Stories become immortal when they are finally shared.”



-Soumili Saha, 2<sup>nd</sup> year



-Rudrashis Roy, 3<sup>rd</sup> year



-Rupam Mukherjee, 3<sup>rd</sup> year

## The Vanishing Point

-Aadipto Ghosh, 2<sup>nd</sup> Year

The first time Tara ever flew in a plane, she clutched her grandmother's hand so tightly that the old woman chuckled through her oxygen mask.

"Relax, beta," Dadi said, her voice muffled but steady. "It's not the first time someone from our family is going to Delhi".

But Tara wasn't nervous about the flight. She was nervous about her sister, Naina.

Naina had moved to Delhi six months ago for a job in fashion. Texts turned into voice notes, then scattered photos, then silence. But two weeks ago, she had called, panicked. "Just come," she had whispered. "Bring Dadi. Don't tell anyone else. I'll explain when you're here".

So, Tara booked the tickets and left.

They landed in Delhi on a cloudy afternoon, the city heavy with humidity and the chaos of horns and heat. Tara scanned the crowd outside Terminal 3. Naina wasn't there.

"No problem," Tara muttered, half to herself, half to Dadi, whose patience was thinning in the dry heat. She called her sister. No answer. She texted. Delivered. No reply.

They took a cab to Naina's apartment in South Delhi. But when they arrived, something was off. The door wasn't locked. Inside, the curtains were drawn. A mug of tea sat on the table, cold and untouched. And Naina was gone.

Dadi settled onto the sofa, visibly shaken. "Something is wrong," she whispered. Tara paced the room, finding Naina's diary tucked beneath the mattress, pages scribbled with names she didn't recognize. One name repeated: Rishi. The boyfriend. The one Naina had never wanted to talk about.

That night, Tara stayed awake listening to the sounds of the city. Somewhere between midnight and dawn, she heard a noise-faint, like a soft click from the door. She grabbed a kitchen knife and crept into the living room. Nothing. Except an envelope slid under the door. Her name on it, written in Naina's handwriting.

Inside, a single photo: Naina, looking over her shoulder, eyes wide with fear. Behind her, blurred but unmistakable-Rishi. On the back: "Trust no one. Not even him". Tara looked up from the note. The city outside was beginning to stir. She didn't know where her sister was, or who she could trust. But one thing was certain-Delhi wasn't just a city anymore. It was a maze, and Naina was the thread she had to follow.

And someone was already watching her unravel it.

## উড়ন্ত ঘুড়ি

উড়ছে ঘুড়ি উড়ছে বাতাস,  
উড়ছে আমার মন।  
ঘুরছে যে ঘড়ির কাটা,  
কি জানি কখন?

পড়াশোনা ভালই কঠিন,  
লাগতো না তার ভালো।  
ভেবেছিল সে ঘুড়ি হবে,  
কিন্তু রয়ে গেল সে সবার চোখে কালো।

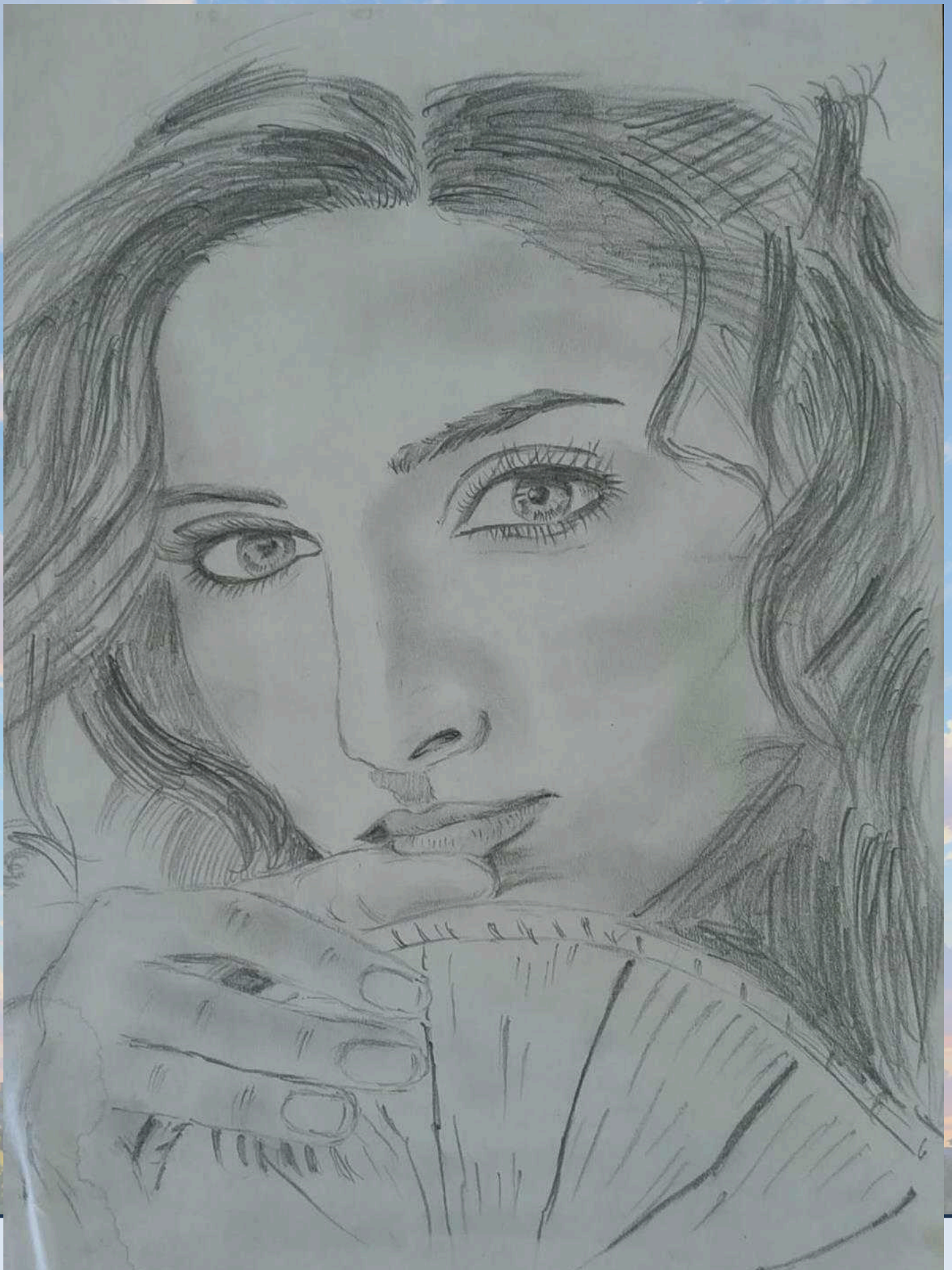
ঘড়ির কাটা ঘরে,  
সে ওঠে না আর ভরে।  
পড়াশোনা তার চলে,  
রেল গাড়ির মতন সবাই বলে।

হার মানতে শেখেনি সে,  
করছে সে লড়াই।  
জিতবে সে নিশ্চই একদিন,  
দেখবে তখন সবাই।

ডাক্তার হয়ে দেখালো সে,  
মুখ বন্ধ করল সবার।  
জানত সে জিতবে একদিন,  
দেখবে সবাই এবার।

তার কথায় এখন ঘুড়ি ওরে।  
তার কোথায় এখন বাতাস।  
সে চলে ঘড়ির আগে,  
সবাই এখন হতাশ।

**-Debadrita Nandy, 1<sup>st</sup> year**



-Ayantika Maity, 2<sup>nd</sup> year

## **The Sky Beyond**

**Beyond the clouds, beyond the rain,  
There lives a world untouched by pain.  
A silent dream, a distant light,  
That softly calls each day and night.**

**We walk through storms with tired feet,  
Yet hope still blooms in hearts that beat.  
The winds may push, the roads may bend,  
But courage helps the soul transcend.**

**The stars above are lessons bright,  
They shine the most in darkest night.  
And every fall, each wound, each scar,  
Reminds us who we truly are.**

**The river sings beside the trees,  
Its music dances with the breeze.  
The moonlight paints the silent sea,  
A picture of serenity.**

**So, hold your dreams with steady hands,  
Like grains of gold or desert sands.  
For every soul was born to fly,  
And write its story in the sky.**

**No fear can chain a hopeful mind,  
No storm can leave the sun behind.  
Keep moving on, let faith remain,  
For joy will follow every pain.**

**And when your journey reaches far,  
Remember how strong your spirits are.  
Beyond all doubt, beyond goodbye,  
There waits your own eternal sky.**

**-Ms. Ankita Indu,  
Asst. Prof, ECE**



-Rishita Saha, 2<sup>nd</sup> year



-Nabamita Paul, 2<sup>nd</sup> year

## PUBLIC JOKE

সেদিন কি হাজারে না আমরা হেসেছিলাম!  
অর্থাৎ তা হসতে হসতে চেয়ার থেকেই পড়ে গেল,  
মালি নাক উঁচিয়ে বলে উঠেছিল, 'Shame, Shame!!'....  
কি যেন আবার তার লেখার আশাটিকে তুলে ধরেছিল মবার  
সামনে,  
তখন প্রকরণ লজ্জা ও ভয় লোনালনে হয়ে  
বেরিয়ে এসেছিল মরনার ছুটি চোখে থেকে...  
"Female Infanticide"-কে না বুলে "Female Infinite Size" লিখে ফেলছে  
যে!!

তারে San Bosco-য় পড়া অর্থাৎ কিংবা  
South Point-এ পড়া মালিদের কাছে,  
নিরাল্য প্রায়ের গুণবর্তী বিদ্যালয়ের শ্রী প্রাক্কর ছাত্রী,  
ও তৃতীয় বর্ষে পড়া এক হুবু Engineer-র পক্ষে,  
এ এক গুণালক অপরাধ!!

বাহু রে শিক্ষাব্যবস্থা!!

চিন্তা ঘরে বসে বড়ো বড়ো লোকেরা  
শিক্ষা নিয়ে পুতুলনাচ দেওয়ায়,  
আর নিজেদের মরলারো দুনিয়ার সামনে  
"PUBLIC JOKE" হয়ে যায়!!

## চৌরাস্তায়ে আমি

এক চৌরাস্তায়ে হেটে বেড়াই,  
ভবঘুরে আমি।  
এদিক যাই সেদিক যাই,  
কোথায় আমার বাড়ি।

নিরুদেশ হয়েছিলাম আমি,  
বয়স তখন আমার এগারো।  
রাস্তাঘাট ভালই চিনেছি,  
চৌরাস্তা আমার প্রিয়।

চৌরাস্তায় আমি এক পথ ডেকে জানায় আমায় আহবান,  
আর এক পথ বলে, "কিরে তর যে এখানেই বাসস্থান!"  
নতুন কিছুর সন্ধানে চলাম আমি, এক নতুন পথের দিকে।  
কিন্তু সেই পুরোনো সৃতি টেনে ধরে রাখে আমায় এই চৌরাস্তার মোড়ে!

বহু ঘটনার সাক্ষী হয়েছি আমি।  
চুপচাপ দেখেগেছি তখন।  
মারধর থেকে দুর্ঘটনা সবটাই দেখেছি আমি,  
চৌরাস্তা দিয়ে যেতাম যখন।

অকেন মিলন দেখেছি আমি।  
অনেক ভাঙন ও দেখেছি।  
আমি চেয়েছিলাম ভব ঘুরবো আমি,  
কিন্তু এই চৌরাস্তায়ে সবটাই ঘুরে নিয়েছি।

-Debadrito Saha, 3<sup>rd</sup> year

# ***MOMENTS CAPTURED IN CAMERA*** 📷



***"Where the sky ends, dreams begin."***

***-Sris Upam Sarkar, 2<sup>nd</sup> year***



***"Football is Life."*** ⚽

***-Abhijit Mahato, 3<sup>rd</sup> year***



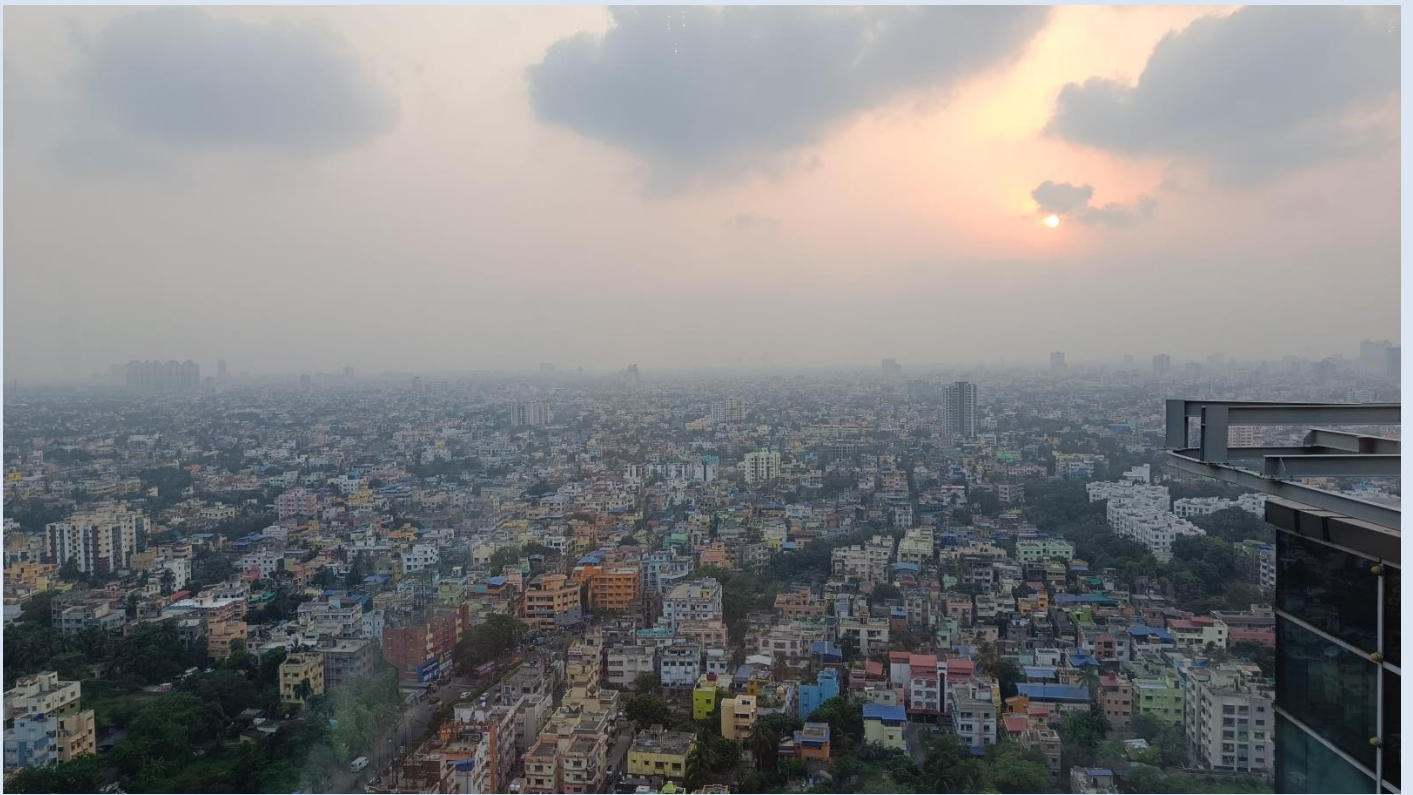
***"Salt in the air, sand in my shoes, and peace in my soul."***

***-Gourab Dey, 2<sup>nd</sup> year***



***"Painted by nature, admired by souls."***

***-Prantik Ghosh, 3<sup>rd</sup> year***



***"Lost somewhere between clouds and calm."***

***-Namrata Maity, 3<sup>rd</sup> year***

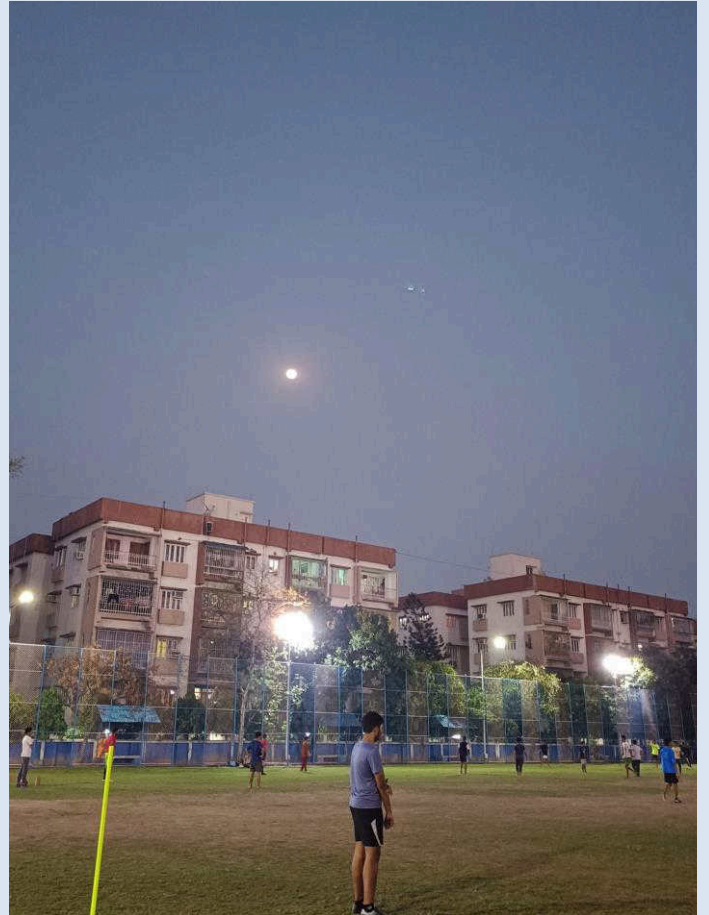


***"Isn't the moon beautiful?"*** ☾

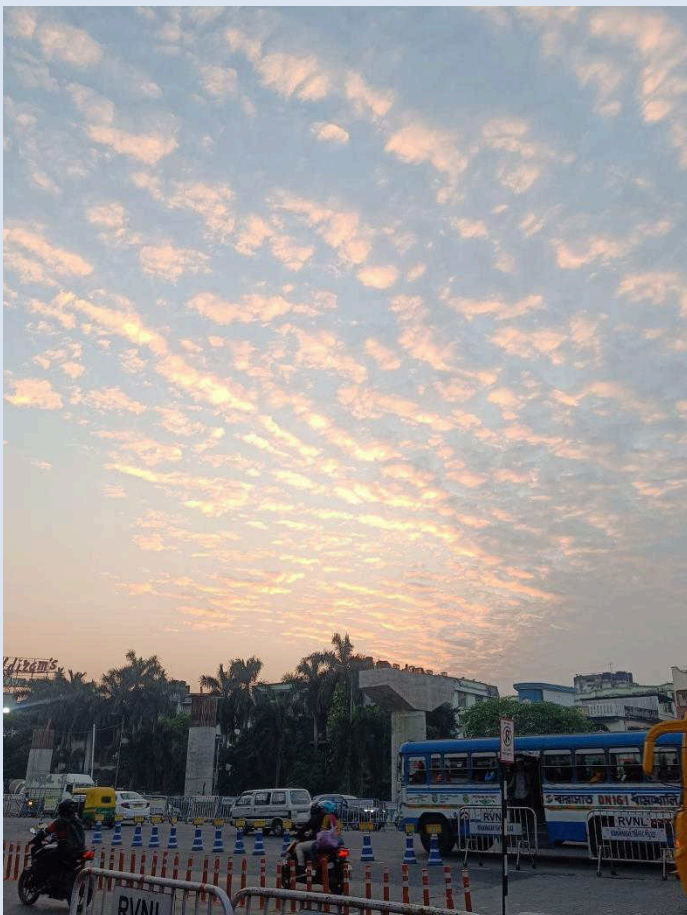
***-Joshita Saha, 2<sup>nd</sup> year***



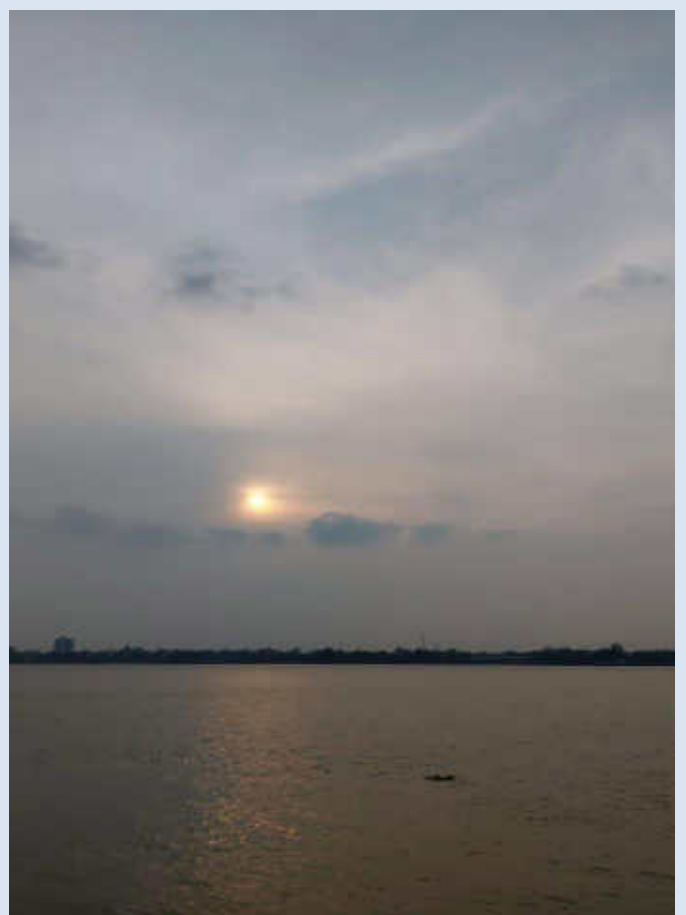
*"Under the same sky, chasing different dreams."  
-Tiasa Mahanty, 4<sup>th</sup> year*



*"A little piece of infinity above us."  
-Soumil Majumdar, 4<sup>th</sup> year*



*"Clouds drifting, worries fading."  
-Abhik Sarak, 2<sup>nd</sup> year*



*"Every sunset writes a new story."  
-Yash Kumar Singh, 4<sup>th</sup> year*

# De-multiplexing the stress

## THE ONLINE CLASS PARADOX 🤖



**EXPECTATION:**  
Camera on and focused.

**REALITY:**  
Spongebob pants & laundry mountain

## THE WI-FI EMERGENCY 🧐



Finally submitting the final assignment!

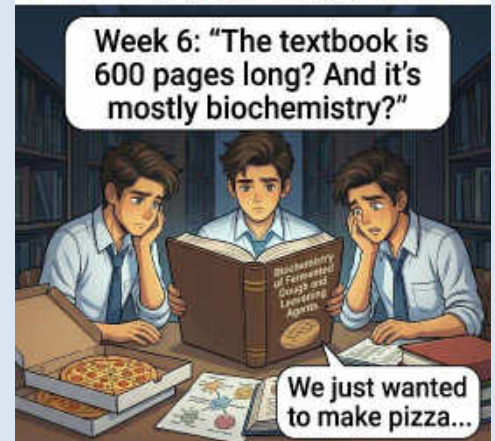
Almost there...

Wait, my connection is gone!

## THE "EASY" ELECTIVE LIE 🤖



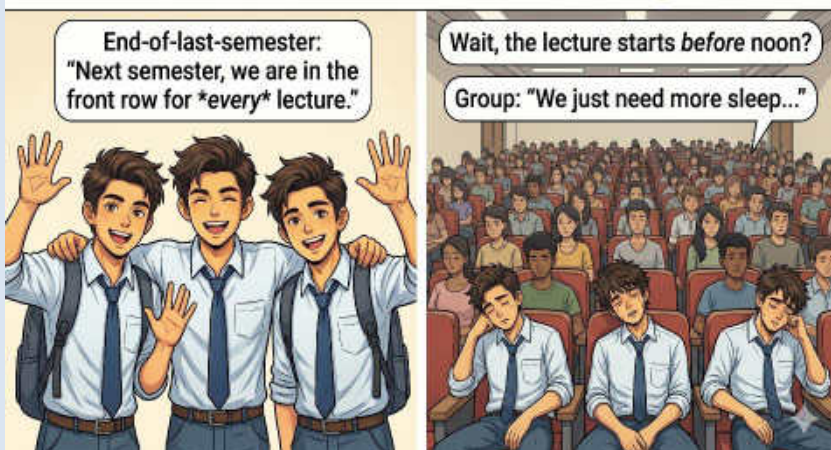
Sign-up time:  
"Intro to Pizza Making!  
Looks so fun and easy!"



Week 6: "The textbook is 600 pages long? And it's mostly biochemistry?"

We just wanted to make pizza...

## THE SEMESTER START LIE 🤖



End-of-last-semester:  
"Next semester, we are in the front row for \*every\* lecture."

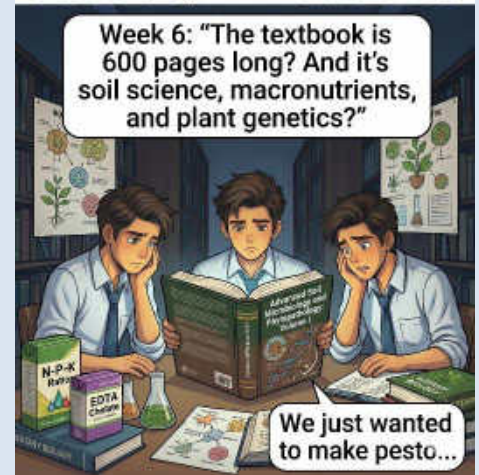
Wait, the lecture starts before noon?

Group: "We just need more sleep..."

## THE "EASY" PLANT PARENT LIE 🤖



Sign-up time:  
"Grow an Indoor Herb Garden!  
So simple! Just a sunny spot and water!"



Week 6: "The textbook is 600 pages long? And it's soil science, macronutrients, and plant genetics?"

We just wanted to make pesto...

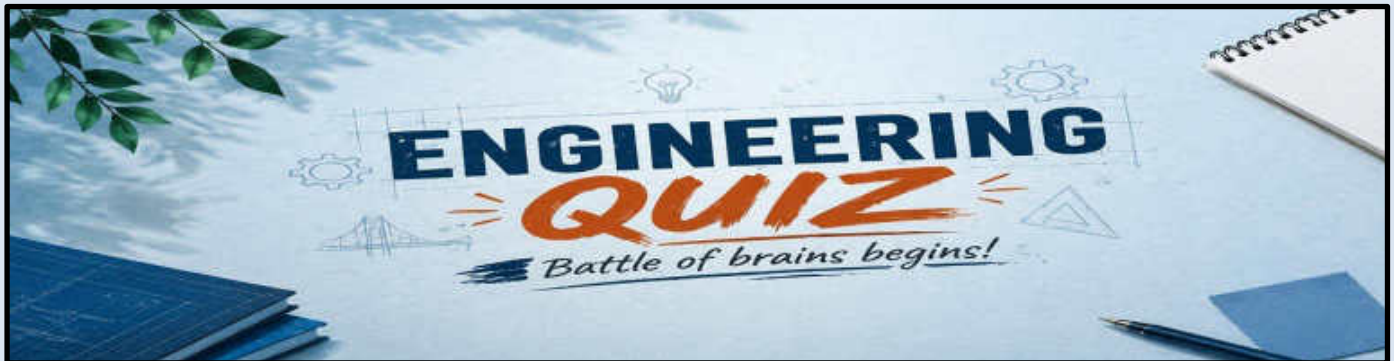


My wallet says 'no', but my appetite says 'yes', but only for this ₹5 water.

## Let's test your knowledge

Here are some questions given below. Fill in the blanks with the correct answer.  
Test your knowledge.

- 1) The region in a BJT where charge carriers are controlled is called the \_\_\_\_\_ region.
- 2) The formula for resonant frequency of an LC circuit is \_\_\_\_\_.
- 3) A logic gate that produces HIGH output only when all inputs are HIGH is called \_\_\_\_\_ gate.
- 4) The device used to convert analog signals into digital form is called \_\_\_\_\_.
- 5) The binary equivalent of decimal 15 is \_\_\_\_\_.
- 6) The modulation technique used in FM radio broadcasting is \_\_\_\_\_.
- 7) The relationship between wavelength, frequency, and velocity is given by \_\_\_\_\_.
- 8) The output of an XOR gate is HIGH when the inputs are \_\_\_\_\_.
- 9) The phenomenon responsible for operation of Zener diode is called \_\_\_\_\_ breakdown.
- 10) The gain-bandwidth product is generally constant for an \_\_\_\_\_ amplifier.
- 11) The Boolean expression  $A + \bar{A}$  is equal to \_\_\_\_\_.
- 12) The passive component that opposes change in current is called \_\_\_\_\_.
- 13) The Nyquist sampling theorem states that sampling frequency must be at least \_\_\_\_\_ the maximum signal frequency.
- 14) The process of converting DC into AC is called \_\_\_\_\_.
- 15) The truth table of a half adder contains \_\_\_\_\_ outputs.



Find the exact answer here, but still with a twist!

Unscramble the words and get your answer

- 1) TACIEV
- 2)  $\frac{1}{2L\sqrt{C\pi}}$
- 3) DAN
- 4) DAC
- 5) (0000)'
- 6) EFUQREYNC MDLOTIUANO
- 7)  $v = f\lambda \rightarrow \lambda f = v$
- 8) FDFEENRIT
- 9) RZNEE KBEDWORNA
- 10) NOAEEPRTILA LFMEPIRIA
- 11) 0'
- 12) NIUTDCOR
- 13) CETWI
- 14) NIRSENOVI
- 15) OTW

# ECE CHRONICLES

SURVIVING CIRCUITS, SIGNALS & SLEEPLESS NIGHTS

10 FUN FACTS ABOUT ECE DEPARTMENT

1. ECE = ENGINEERS CRYING EVERYDAY



6. WE LITERALLY CONNECT THE WORLD.

No ECE = no calls, no Wi-Fi, no scrolling at 2 AM.



2. EMOTIONAL STABILITY? NEVER HEARD OF IT.

WE RUN ON UNSTABLE SIGNALS.



7. LAB = DRAMA ZONE.

One wrong connection and suddenly the whole group is stressed.



3. "SIMPLE CIRCUIT" IS A TRAP.

Biggest lie ever told before lab exams.



EVEN WE DON'T KNOW WHY THE CIRCUIT WORKS... BUT IT DOES.

8. HALF ENGINEER, HALF MAGICIAN.

Because circuits start working only when we stop touching them.



4. SLEEP IS OPTIONAL, SUBMISSIONS ARE NOT.

Especially when deadlines and viva team up against you.



9. END GOAL: IT JOB.

Plot twist nobody talks about.



5. MUG UP → WRITE → FORGET → REPEAT.

A sustainable academic cycle (apparently).



10. CONFIDENCE LEVEL: "I DON'T KNOW ANYTHING BUT I'LL MANAGE."

And somehow... we always do.



ECE: WHERE LOGIC MEETS CHAOS — AND STILL PASSES.

ELECTRONICS & COMMUNICATION ENGINEERING

# PUZZLES & RIDDLES

I have keys but no locks.  
I have space but no room.  
You can enter but can't go outside.  
What am I?

What has a head, a tail,  
is always in front of you,  
but can't be seen?

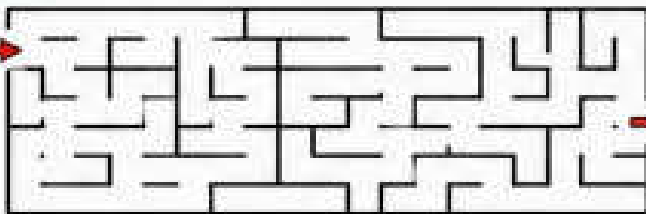


START →



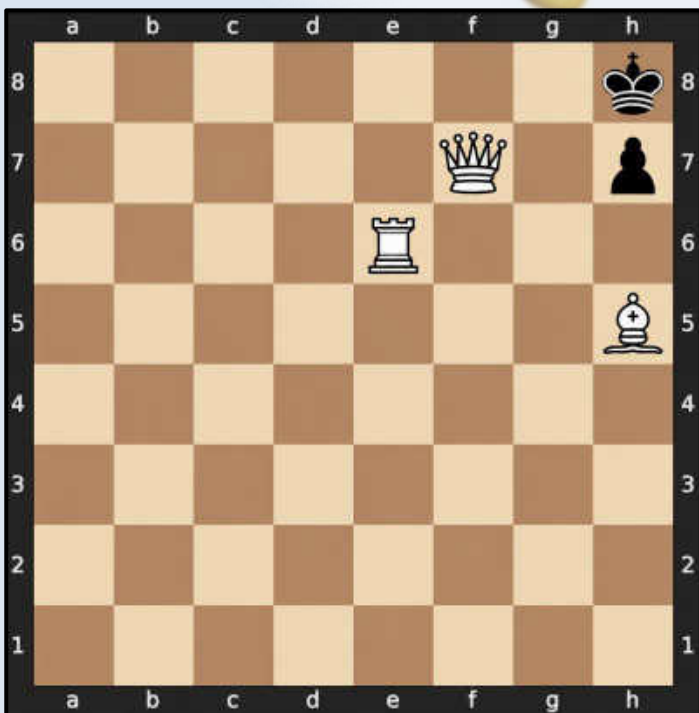
Find your way from **START** to the trophy.

START →

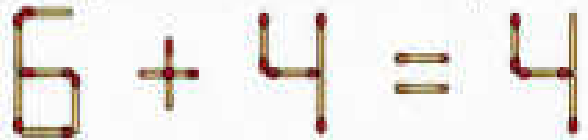


EXIT →

Find the correct path from **START** to **EXIT**.



Move only **ONE** matchstick to fix the equation.



How many animals  
are hidden here?



## ☐☐ DETECTIVE MYSTERY: “The Midnight Broadcast”

Famous radio host **Arka Sen** was found dead inside the recording studio at **11:15 PM**. The studio was locked from inside. The microphone was still ON. 🚓 **Why Soham Was Arrested?**

### 🚓 **Why Nila Was Arrested**

1. She had a heated argument with Arka during the live show that evening
2. Her scarf was found near the control panel
3. She knew the studio password
4. She had no confirmed alibi between **10:30–11:00 PM**

Everything pointed toward her.  
Case solved?

### 🔍 **But Something Feels Strange**

- The AC was running at maximum speed
- A cup of coffee beside the body was still hot
- The wall clock had stopped at exactly **10:42 PM**

### 👤 **Other People That Night**

#### • **Rohan (Sound Engineer)**

Claimed he left the station at **10:20 PM**

#### • **Tithi (Intern)**

Said she heard loud music coming from the studio at **11:00 PM**

#### • **Security Guard**

Claims nobody entered or exited after **10:30 PM**

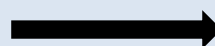
### **Strange Clues**

- Arka always drank **cold coffee**, never hot coffee
- The stopped clock had **no broken glass**
- The AC could cool the room very quickly

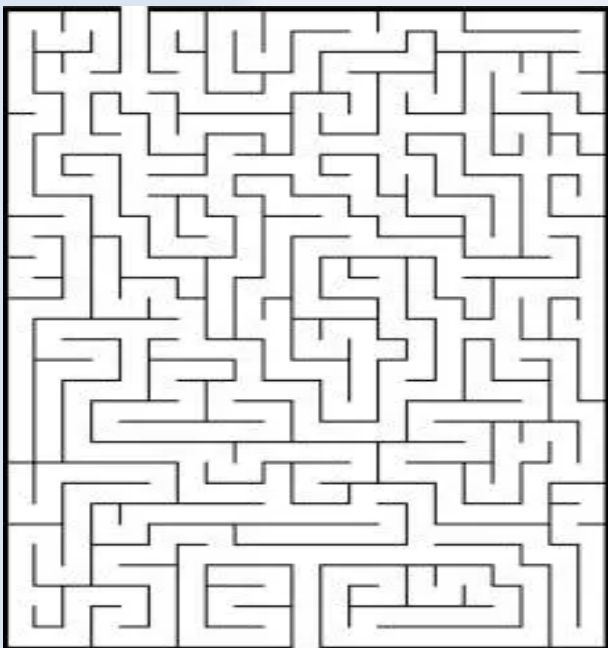
### ? **Your Task**

- ☞ Is Nila really the killer?
- ☞ If not, who is?
- ☞ What single clue exposes the real criminal?

**SCAN THE QR CODE TO KNOW  
WHO IS THE REAL KILLER**



**FIND THE MEANINGFUL 10 WORDS FROM THIS  
(CLUE : ALL WORDS ARE RELATED TO ELECTRONICS COMPONENTS)**



A thief is escaping from prison. He finds three exits:

- 🦈 A tunnel filled with sharks
- 🔥 A hallway covered in flames
- ❄️ A frozen path covered with ice that melts every night

☛ Which exit is safest?

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

**How many  
Squares?**

**HOW MANY TRIANGLES DO YOU SEE?**

