



C.V.Raman Polytechnic

Department Of Electronic & Telecommunication

ELECT-O-TALK

2025-26
1st Edition



EDITORIAL

“Literature is the art of discovering something extraordinary about ordinary people, and saying with ordinary words something extraordinary.” - Boris Pasternak

In the hum of circuits and the glow of screens at C.V. Raman Polytechnic, where wires whisper and chips think, ELECT-O-TALK emerges as the voice of the Department of Electronics and Telecommunication. This isn't just a magazine—it's a conversation, a spark, a signal sent out to every curious mind ready to tune in.

Why “TALK” ? ,Because technology isn't silent. It speaks—in the language of design, in the rhythm of research, in the stories of those who dare to tinker. ELECT-O-TALK invites you to listen, then add your own frequency to the mix. Whether you're a first-year finding your footing or a final-year polishing your legacy, your words matter here.

This magazine is about people. The late nights in the lab, the breakthroughs that feel like lightning, the failures that teach more than success ever could. It's about the ordinary moments that, when looked at closely, reveal something extraordinary—just as **Pasternak** suggested.

So open these pages not as a manual, but as a message. Let ELECT-O-TALK be your reminder that even in a world of electrons and equations, there's room for emotion, for imagination, for the kind of talk that turns signals into stories.

Welcome to the conversation

-Soubhagya Patra & Ozaifa
BATCH 2025-28

PREFACE

In an era where technology is evolving at an unprecedented pace, the field of Electronics and Telecommunication stands at the forefront of innovation, shaping the way we connect, communicate, and perceive the world around us. It is with great pleasure and enthusiasm that we present to you the first edition of our departmental magazine, a culmination of the ingenuity, passion, and dedication of our diploma students and faculty.

In recent years, the synergy between Artificial Intelligence and Electronics and Telecommunication Engineering has propelled innovation to unprecedented heights, revolutionizing industries and reshaping the way we interact with technology. Within the pages of this magazine, you will discover a collection of informative articles, creative ideas, and inspiring projects that highlight the connection between AI and Electronics.

As a department, we take immense pride in fostering a dynamic learning environment that encourages creativity, critical thinking, and collaboration. Our students are not just learners; they are innovators, problem-solvers, and future leaders who are poised to make a positive impact on society.

This magazine provides a platform for showcasing the talents, creativity, achievements, and experiences of our diploma students and faculty members. It also encourages the exchange of ideas and knowledge that will inspire the future development of Electronics and Telecommunication.

We extend our heartfelt gratitude to all those who have contributed to the creation of this magazine, whether through writing articles, sharing ideas, designing layouts, or providing support in countless other ways that have made this publication possible.

<i>VISION</i>	To provide quality education in Electronics and Telecommunication Engineering through industry-oriented learning, modern technology, practical training, and ethical values, preparing students to meet the evolving needs of industry and society
<i>MISSION</i>	• To provide a need-based and industry-oriented curriculum with inputs from industry experts, academicians, and alumni. • To develop technical and practical skills by promoting hands-on learning, experimentation, projects, and exposure to emerging technologies. • To encourage teamwork, communication, leadership, and professional ethics, enabling students to contribute effectively to society and the engineering profession.
<i>PO</i>	• Basic and discipline specific knowledge. • Problem analysis • Design/development of solutions • Engineering tools, experimentation and testing • Engineering Practices for society, sustainability and environment • Project Management • Lifelong Learning
<i>PEO</i>	• Aim for advanced education in related subjects, such as electronics and telecommunication engineering. • Contribute to teaching, research, and other developmental activities of electronics & communication engineering and its allied fields. • Work in multicultural and multidisciplinary groups for the Sustainable development and growth of electronics and communication engineering projects and profession

PSO

- Discipline knowledge: Apply the principles of communication and electronics engineering while designing embedded systems, implementing VLSI designs, communication systems, and other pertinent fields.
- Problem-Solving Skills: Utilize software and hardware technologies to examine issues with electronics and communication systems



FROM CHAIRMAN'S DESK

Our longstanding commitment to academic excellence inspires us to provide the very best in infrastructure, education and opportunities for global learning across the college. We believe in nurturing an environment where students are encouraged to explore new ideas, develop practical skills and transform their imagination into meaningful innovations. Through active learning, collaboration and diverse opportunities, our institution strives to prepare students to face the challenges of a changing world with confidence and responsibility.

As the Chairman, I extend my heartfelt wishes to everyone associated with the departmental magazine "Electr-O-Talk" of E&TC department. May this first edition inspire our students to become independent thinkers, confident doers and responsible innovators who use technology for the betterment of society. Let us continue to encourage creativity, academic excellence and meaningful contributions in every field.

As Sir **C. V. Raman** reminded us,

"The essence of science is independent thinking, hard work, and not equipment."

-Mr. Sanjib Kumar Rout
Chairman,
C.V. Raman Polytechnic

FROM PRINCIPAL'S DESK

A college magazine is more than a collection of articles; it is a reflection of the thoughts, talents and aspirations of its students. C. V. Raman Polytechnic, Bhubaneswar, established in 2005, envisions becoming a global leader in technical education by fostering innovation, industry collaboration and holistic student development. With a strong focus on skill-building and future readiness, our institution aims to produce competent professionals who can contribute meaningfully to society.

It is with great pride that I welcome the first edition of Electr-O-Talk, presented by the Electronics and Communication Technology Department. This magazine brings together the voices of our learners through technical contributions, creative writing, innovative ideas and records of achievement. I congratulate the students and faculty members for creating this platform with dedication and purpose

Every new idea begins with curiosity, and every achievement grows through effort and perseverance. I hope Electr-O-Talk encourages our students to look beyond textbooks, question the world around them and apply their knowledge to real-life challenges. As Albert Einstein wisely said, **“The important thing is not to stop questioning. Curiosity has its own reason for existing.”**

May this first edition mark the beginning of a meaningful journey of expression, innovation and professional growth. I extend my sincere appreciation to the editorial team and wish the magazine continued success in the years ahead

-Er. Rajendra Kumar Prusti
Principal,
C.V. Raman Polytechnic





FROM HOD'S DESK

It gives me immense pleasure to present the first edition of Electr-O-Talk, the departmental magazine of Electronics and Communication Technology. This publication is a reflection of the creativity, enthusiasm and technical spirit of our students. It provides a meaningful platform for them to share their ideas, knowledge, achievements and experiences while encouraging curiosity, teamwork and continuous learning.

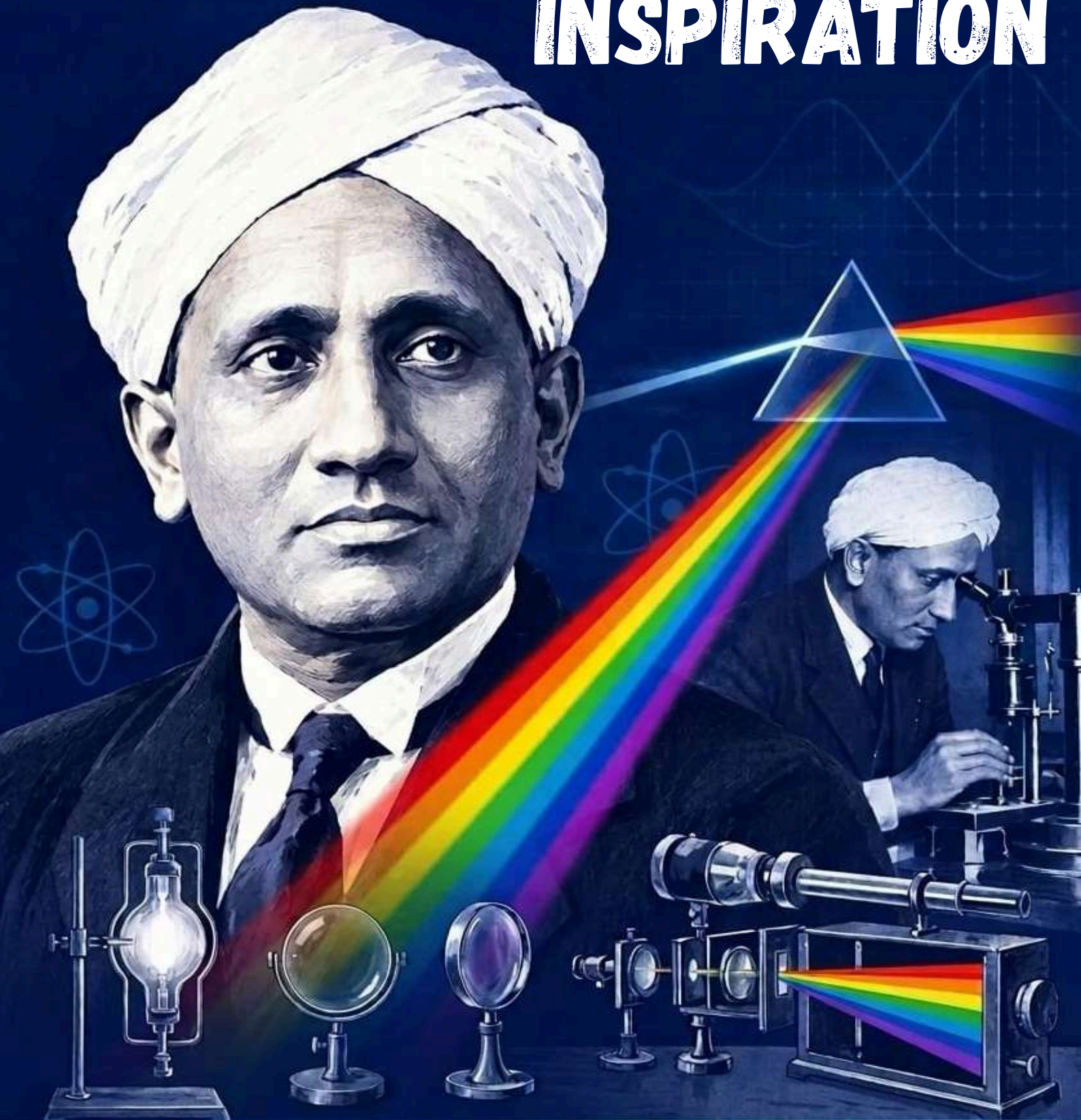
I sincerely appreciate the efforts of the faculty members and students who have worked with dedication to bring this edition to life.

I am confident that Electr-O-Talk will motivate our students to think innovatively, develop practical skills and explore new possibilities in the field of technology. May this magazine continue to grow as a source of inspiration and become a valuable record of the academic and creative achievements of our department.

I extend my best wishes to everyone involved in this initiative and hope that it encourages our students to become capable professionals and responsible contributors to society

-Mrs. Suchismita Satapathy
Head and Associate Professor,
Department of E&TC
C.V. Raman Polytechnic

OUR INSPIRATION



SIR C.V.RAMAN(1888-1970)

He won the Nobel prize in Physics for discovering of "Raman Effect. India celebrates National Science Day on February 28 each year to mark the 1928 discovery of the Raman Effect.

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5G to 6G: The Next Wireless Era

Wireless communication has transformed remarkably over the last few decades. We have moved from the first generation (1G), which supported basic voice calls, to 4G, which made high-speed mobile internet a part of everyday life. Today, 5G technology is enabling much faster communication, low delay and connectivity among a huge number of devices. The next major step will be 6G, which is expected to make wireless networks even faster, smarter and more intelligent.

What Makes 6G Different ?

While 5G mainly focuses on high-speed data, low latency and massive device connectivity, 6G is expected to combine communication, sensing, computing and Artificial Intelligence (AI) within a common network. Future wireless systems may operate at extremely high frequencies, including millimetre-wave and sub-terahertz/terahertz bands, to support very high data rates. AI may also play an important role in automatically managing network resources, detecting faults and improving communication quality.

6G could support technologies such as extended reality (XR), digital twins, intelligent robots, autonomous vehicles, smart factories and advanced healthcare systems. Imagine a technician wearing smart glasses and receiving real-time 3D instructions while repairing an electronic system, or a factory where machines communicate with each other and automatically identify problems before production is affected. Such applications require communication networks that are not only fast but also highly reliable and intelligent.

Why Is It Important for Diploma ETC Students ?

The development of 5G and 6G does not make the fundamentals of Electronics and Telecommunication Engineering less important. In fact, it makes them even more relevant. Concepts such as electronic circuits, semiconductor devices, digital electronics, modulation, antennas, microcontrollers, optical communication, networking and signal processing form the foundation of modern communication technology.

Students who develop practical skills in embedded systems, IoT, sensors, PCB design, microcontrollers, Python, networking and basic AI will be better prepared for future opportunities in telecommunications, automation, smart manufacturing and electronics industries.

The Road Ahead

The transition from 5G to 6G represents more than an increase in internet speed. It represents a movement towards a world where billions of electronic devices, sensors, machines and intelligent systems can communicate seamlessly. Although 6G is still under research and development, the technologies being studied today will shape the communication systems of the next decade. For an ETC student, therefore, learning should go beyond textbooks and examinations. Understanding the fundamentals, experimenting with electronic circuits, developing small projects and remaining curious about emerging technologies are the first steps towards becoming part of the next generation of communication engineers.

"The future of communication will not only connect people-it will intelligently connect people, machines and the physical world."

**-Mrs. Suchismita Satapathy
HOD, Assistant Professor**

AI & ML: From Syntax to Semantics

Introduction

Tap send on a campus group chat, stream a lecture recording, or run a multi-user AR lab session, and you are tapping into a digital nervous system built on decades of packet switching, TCP/IP handshakes and rigid error-correction codes. For years, communication engineering treated meaning as an afterthought—focusing strictly on bit error rates (BER) and reliable symbol delivery. Today, AI and machine learning are merging with communication theory to move us from syntax-heavy pipelines to semantic, intent-aware and physics-aware networks.

1. Syntax Meets Semantics: AI-Native Air Interfaces

Traditional communication relies on lossless transmission of every single bit. Semantic communication flips this script: transmit meaning, context and intent.

- **6G Beam Management and Channel Estimation:**

Deep learning replaces heuristic codebooks, optimizing beamforming and cell-edge throughput dynamically.

- **Semantic Codes:**

Instead of raw high-bit-rate or redundant audio streams, smart edge encoders transmit compact, intent-preserving semantic tokens that local receiver models reconstruct into context-faithful multi-sensory scenes.

2. Toolkit & Blueprint:

Physics-Aware AI at Every Layer Classical routing and protocol stacks follow static rulebooks, whereas AI-driven communication adapts via gradient-guided optimization over channel and semantic landscapes, updating network/code parameters at each step:

$$\mathbf{W}_{t+1} = \mathbf{W}_t - \eta \nabla \mathbf{W} [\text{Loss}_{\text{semantic/channel}}(\mathbf{x}, \mathbf{y}) + \lambda \cdot \text{Reg}(\mathbf{W}_t)]$$

Domain	Traditional Communication Pipeline	AI-Driven / Semantic Alternative
Wireless / Air Interface	Hardcoded pilot symbols, LMMSE estimation	Neural receivers, end-to-end adaptive air-interface mapping
Data / Media Payload	Raw bitstream / standard codecs (H.264/AAC)	Latent-space semantic feature streaming (sub-bandwidth overhead)

3. Toolkit for Undergrads

- **Master information theory, stochastic processes and deep representation learning**-the dual backbone of modern semantic communications.
- **Bridge Python/PyTorch AI coding with C++/Verilog implementation** for real-time edge AI inference.
- **Explore open-source AI-driven wireless testbeds**, such as Sionna, OpenAirInterface and AI extensions.

Conclusion

The next frontier of communication engineering belongs to those who merge Shannon's information bounds with neural semantics. True network performance will no longer be judged by raw pipe gigabits alone, but by semantic fidelity, inference latency at the edge and context-aware resilience under unreliable channel fade.

-Asst.Prof.Prabhakar Ratha

THE SEMICONDUCTOR REVOLUTION

The 20th century marked a revolutionary era in electronics engineering with the development of semiconductor devices. The transition from bulky vacuum tubes to compact semiconductor components transformed electronic systems in terms of size, speed, reliability, and power consumption.

The invention of the transistor in 1947 was a major milestone. Transistors replaced vacuum tubes in many applications because they were smaller, more reliable, consumed less power, and generated less heat. This breakthrough opened the way for the rapid development of modern electronic circuits.

The next major advancement was the Integrated Circuit (IC) in the late 1950s. By placing several electronic components on a single semiconductor chip, IC technology made electronic equipment smaller, faster, more reliable, and economical. This was followed by the development of microprocessors and VLSI technology, which allowed thousands and later millions of transistors to be integrated onto a single chip.

The semiconductor revolution transformed almost every area of electronics, including computers, telecommunications, digital electronics, instrumentation, industrial automation, and consumer electronics. It also created the foundation for today's smartphones, intelligent systems, embedded devices, and advanced communication technologies.

Conclusion :-

The evolution of semiconductor devices was one of the greatest technological achievements of the 20th century. It changed electronics engineering from large, component-based systems into highly integrated, compact, and intelligent systems. The semiconductor revolution of the 20th century laid the foundation for the digital world of the 21st century

FROM WAVES TO INTELLIGENCE

Introduction

Walk across a campus, sync a pair of earbuds, or check a heart-rate monitor, and you are already swimming in a sea of analog waves: Wi-Fi, Bluetooth, ECG, and GPS. For decades, Signal Processing quietly translated this physics into information using Fourier transforms and filters. Today, that discipline is merging with AI/ML to create perception that is edge-native and physics-grounded, running not in the cloud but in the device in your hand.

1.Fourier Meets Feedforward:

Edge Intelligence Physics-Informed Neural Networks (PINNs) and algorithm unrolling embed differential equations directly into network architectures, replacing heuristic noise subtraction with sub-2ms vocal formant separation in noisy canteens. In parallel, green edge AI uses quantization-aware training (QAT) and structured pruning to deliver sub- milliwatt inference on devices as small as smart rings and industrial motors

Domain	Traditional Signal Processing	AI-Driven / Unrolled Edge AI
Noise/Canteen Speech	Spectral subtraction/Wiener filtering	Sub-2ms neutral vocal format extraction
BCI EEG Pipeline	Bandpass→ICA→Handcrafted features→SVM	GNN/Transformer,spatio-topological,end-to-end(94%accuracy)

2. Toolkit & Blueprint:

Sieve vs. Smart Net A simple analogy captures the shift: classical filtering is a fixed physical sieve, sorting particles by a size decided in advance, while AI-driven processing is a dynamic net that tightens intelligently around a fast-moving fish. That adaptivity comes from gradient descent on a physics-aware loss, updating the network weights W at each step t :

$$W_{t+1} = W_t - \eta \nabla W [\text{Loss}_{\text{physics}}(x, y) + \lambda \cdot \text{Reg}(W_t)]$$

Toolkit for Undergrads:

1. Master linear algebra, random processes, and complex analysis the mathematical backbone of both worlds.
2. Bridge PyTorch/TensorFlow prototyping with C, Verilog, and RISC-V deployment.
3. Contribute to open benchmarks such as TorchAudio and edge-AI leaderboards.

Conclusion

The next era of engineering belongs to those who merge physical law with edge-native intelligence. True capability will no longer be measured by cloud parameter scale, but by thermodynamic efficiency, hardware-software co- design, and causal perception at the sensor boundary where continuous signals, physical constraints, and edge- first execution meet.

**- Er. Sabyasachi Patra,
Assistant Professor**

GOODBYE SILICON?

For beyond more than half a century, silicon has been the foundational block of modern technology, driving the evolution of everything from smartphones to electric vehicles. However, as a microchip continues to shrink, silicon is rapidly approaching its physical limit, leading to severe issues with overheating and efficiency losses.

To overcome these barriers, engineers are transitioning to a new class of advanced materials: graphene, a microscopic carbon layer that unlocks processing speed and flexibility; Gallium Nitride (GaN) enables ultra-fast charging with minimal heat loss; silicon carbide (SiC), withstands the extreme temperatures of industrial energy grids.

While the immense cost of global factories means silicon will not disappear immediately, the next era of electronics will ultimately depend on a hybrid approach, blending these innovative materials with traditional architectures to deliver smaller and efficient hardware.

-Sai Saranya Das
5th Sem

UNWRITTEN DESTINY



Sometimes, life writes the most beautiful stories in the most unexpected ways. It was a normal day when they first met two strangers, with different dreams, different worlds, but somehow, the same sky above them. What started as a simple conversation soon turned into something deeper. They found comfort in each other, laughter in the little things, and a love that felt nothing less than destiny.

For a while, it felt like the universe had finally brought them together for a reason. They built dreams, made plans, and promised to stand by each other, no matter what. Love was pure, effortless, and real. They believed they had found their forever.

But destiny, as it often does, had a different plan. Life threw challenges their way- distance, misunderstandings, and the kind of doubts that slowly creep into even the strongest hearts. They fought, they cried, but they always came back to each other. Or at least, that's what they thought.

Then came the betrayal.

It wasn't a loud argument or a dramatic goodbye. It was quieter, colder, and unexpected. The person they trusted the most, the one who knew their deepest fears and dreams, chose someone else. Not because love faded, but because temptation was stronger, or maybe because they never truly valued what they had.

The truth hit hard. It wasn't just the loss of a person, but the loss of the dreams they had built together. The same hands that once held theirs, now held someone else's. The heart that once felt safe, now felt shattered.

For a long time, they blamed destiny, wondering why it had given them such beautiful love only to take it away. But as the days passed, they realized something maybe it wasn't a mistake. Maybe it was a lesson. A lesson in self-worth, in trusting their instincts, and in understanding that not every love story is meant to last forever.

Today, they look back with a heavier heart but a stronger soul. The betrayal hurt, but it didn't break them. It taught them that love isn't just about finding the right person, but also about knowing when to let go. Because sometimes, destiny doesn't just bring people together it also teaches you how to survive when they leave.

And maybe, just maybe, that's the real reason it all happened become the best version of themselves, ready for a love **that's truly meant for them**

-Anupam Mohanty
BATCH 2025-28

The BACKBENCHER Diary

कॉलेज लाइफ़ में हर क्लास की अपनी एक कहानी होती है। कुछ स्टूडेंट्स पढ़ाई में आगे रहते हैं, कुछ हर दिन कॉलेज आते हैं, और कुछ अपनी ही दुनिया में रहते हैं। हमारी क्लास में भी एक ऐसा ही स्टूडेंट था- सत्यम।

सत्यम हर दिन कॉलेज नहीं आता था। कई बार अटेंडेंस के समय उसका नाम पुकारा जाता और उसकी जगह सन्नाटा मिलता। हम लोग उसे कई बार समझाते थे, "भाई, रेगुलर कॉलेज आया कर।" मैम और सर भी उसे कई बार समझाते थे कि अगर वह रेगुलर क्लास नहीं करेगा तो उसके पैरेंट्स को कॉल करना पड़ेगा। सत्यम सुनता, मुस्कुराता और अगले दिन फिर कभी-कभी गायब हो जाता। लेकिन जब भी वह कॉलेज आता, उसकी एक जगह पक्की थी बैंक बेंच। बैंक बेंच पर बैठकर वह दोस्तों के साथ बातें करता, हँसता और अपनी तरह से कॉलेज लाइफ़ Enjoy करता।

फिर एक दिन कॉलेज में मैगज़ीन निकलने की बात हुई. स्टूडेंट्स से कहा गया कि वे अपनी Stories, Poems, Articles या Artwork मैगज़ीन के लिए दे सकते हैं।

सत्यम ने पहले इसमें हिस्सा लेने से मना कर दिया। उसे लगा कि शायद उसका काम अच्छा नहीं होगा।

तभी उसके दोस्त अरविंद शेखर ने कहा,
"भाई, एक बार try करके देख। जीतना जरूरी नहीं है। अगर हार भी गया तो क्या होगा? कम से कम तूने कोशिश तो की होगी।"

एक और दोस्त किस ने भी उसका हौसला बढ़ाया। उसने कहा,
"भाई, मैं भी कर रहा हूँ, तू भी कर। क्या पता तेरा ही काम सबसे अच्छा निकल जाए।"

दोस्तों की बात सुनकर सत्यम ने आखिरकार कोशिश करने का फैसला किया। उसने अपना artwork तैयार किया और कॉलेज मैगज़ीन के लिए दे दिया।

अगले दिन जब मैगज़ीन सामने आई, तो सत्यम ने जब उसमें अपना काम देखा, उसके चेहरे पर खुशी साफ दिखाई दे रही थी। जिस स्टूडेंट को अक्सर क्लास में रेगुलर आने के लिए समझाया जाता था, उसी सत्यम का काम मैगज़ीन में देखकर मैम और सर भी खुश हुए।

तब हमें लगा कि शायद किसी स्टूडेंट को सिर्फ उसकी Attendance या उसके Backbencher होने से Judge नहीं करना चाहिए। हर किसी के अंदर कोई न कोई talent होता है बस कभी-कभी उसे सामने लाने के लिए एक मौका और दोस्तों की थोड़ी-सी हिम्मत चाहिए होती है।

और सत्यम की कहानी अभी खत्म नहीं हुई है। हमारी कॉलेज लाइफ़ अभी चल रही है। आगे भी बहुत सारे दिन आएँगे, बहुत सारी बातें होंगी और बहुत सारी यादें बनेंगी।

शायद कुछ साल बाद, जब हम अपनी पढ़ाई पूरी करके अपने चार-पाँच पुराने दोस्तों के साथ किसी दिन कॉफ़ी पर बैठेंगे, तब हम अपने diploma के दिनों को याद करेंगे। हम कॉलेज की बातें करेंगे, पुराने teachers को याद करेंगे और शायद हँसते हुए कहेंगे-

"याद है वो सत्यम? हमारा Backbencher... जो रोज़ कॉलेज नहीं आता था, लेकिन अपनी एक अलग पहचान छोड़ गया था।"

यही तो कॉलेज लाइफ़ है- हर दिन एक नई कहानी, हर दोस्त एक नया किरदार, और हर पल एक ऐसी याद जो आगे चलकर मुस्कुराने की वजह बन जाती है।

-Soubhagya Patra
BATCH 2025-28

The Untold Story Behind Success

Dr. Aryan Mehta was one of the most respected scientists in the city. His name was associated with successful research, remarkable inventions and numerous awards. People often said one thing about him:

“Dr. Aryan never makes mistakes.”

Every new project he presented seemed successful. His research was appreciated by leading institutions, and young students looked at him as a symbol of success.

One day, Dr. Aryan was invited to a university to speak to a group of students. The auditorium was filled with excitement. Everyone wanted to know the secret behind his extraordinary achievements. Dr. Aryan shared his experiences and explained that success was not achieved through talent alone, but through continuous learning. Soon, it was time for questions. One student asked,

“What is the greatest secret to success?”

Another asked,

“How do you manage to make such difficult projects successful?”

Dr. Aryan answered every question calmly. Then, a student sitting at the back stood up. After a moment of hesitation, he asked,

“Sir, have you really never made a mistake in your life?”

The entire auditorium became silent. Everyone waited for his answer.

Dr. Aryan smiled for a few moments. Then he said,

“Come with me.”

The students looked at one another in surprise. Dr. Aryan led them towards the university laboratory. Behind the laboratory was an old door, There was no name written on it. He took an old key from his pocket and slowly opened the door.

The moment the door opened, the students were astonished. The room was filled with broken models, failed machines, incomplete experiments and old notebooks. In one corner stood a model with a label:

Experiment No.1 - Failed

Experiment No. 27 - Failed

Experiment No. 86 - Failed

The students looked around the room. There were no trophies. No awards. No photographs of success. There were only attempts that the world had never considered successful.

The same student who had asked the question spoke softly,

“Sir... what is all this?”

Dr. Aryan stood in the middle of the room and replied,

“This is my most important laboratory.”

He picked up an old, broken model. “This was my first major project. I failed completely.” Then he opened an old file. “In this experiment, I made a small mistake in my calculations.” He smiled and pointed towards another project. “And in this one, I made so many mistakes that I had to start everything again from the beginning.”

One student asked in surprise,

"But Sir, if you failed so many times, why did you never give up?"

Dr. Aryan looked around the room for a moment. Then he answered quietly,
“Because I was not simply failing... I was learning what did not work.”

The room became completely silent. He continued,
“The world sees my successful projects, but no one sees this room. People see the results, but they rarely see the failure behind those results.

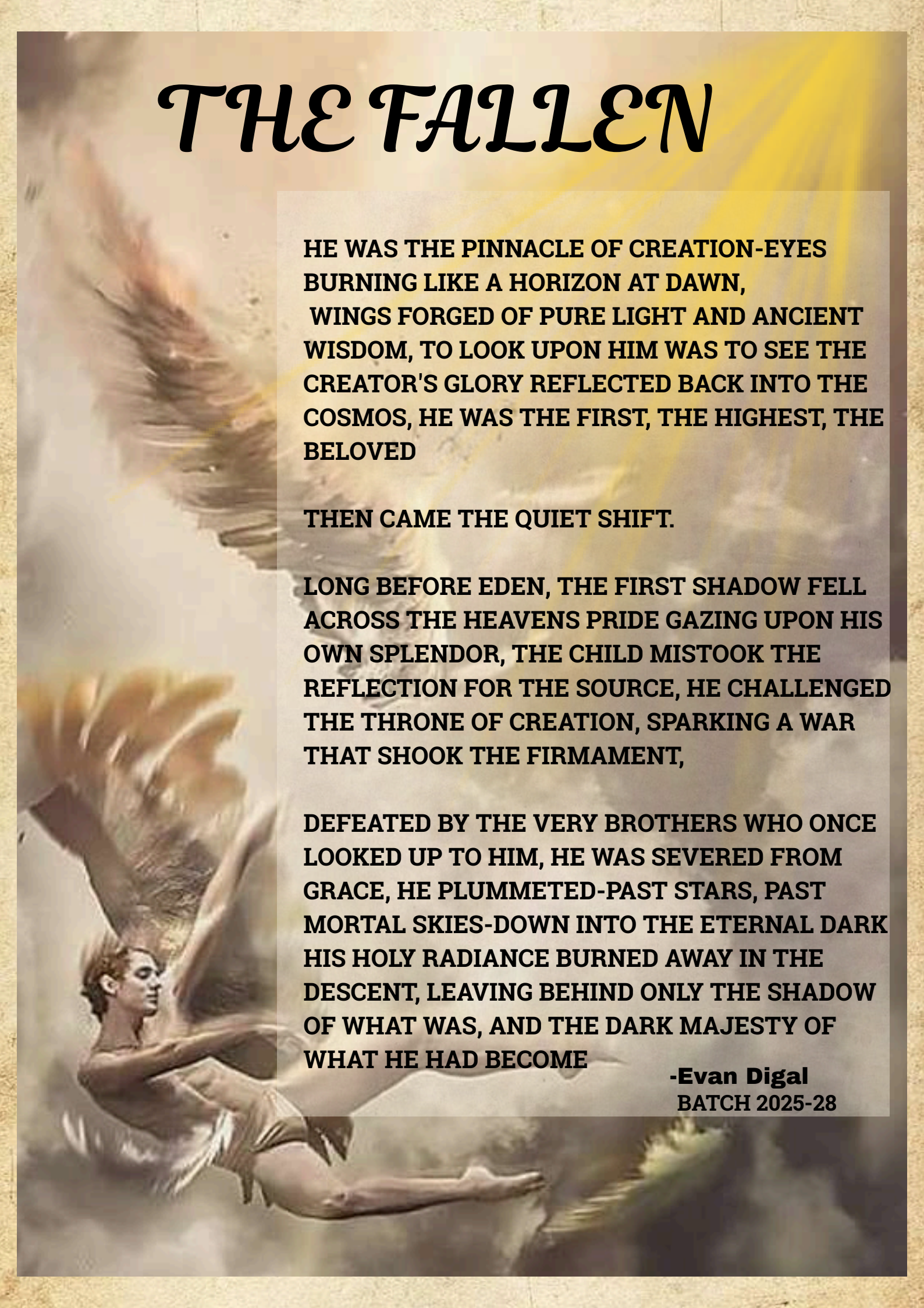
Then he looked at the students and said.
“People look at my success and assume that I have never been wrong. But behind every success of mine is the failure that the world has never seen.’

As the students walked out of the laboratory that day, they looked back at the room once more,
then had seen it as a room full of failures. But now — they saw the foundation of success,
Before closing the door, Dr. Aryan said,
“The world sees the result of my success, but this room knows how I reached there.”

That day, every student understood something that perhaps no textbook could truly teach them: Successful people are not those who never make mistakes. They are the ones who learn from their mistakes and have the courage to try again.

-Anusaya Sahoo
Batch 2025-28

THE FALLEN



HE WAS THE PINNACLE OF CREATION-EYES
BURNING LIKE A HORIZON AT DAWN,
WINGS FORGED OF PURE LIGHT AND ANCIENT
WISDOM, TO LOOK UPON HIM WAS TO SEE THE
CREATOR'S GLORY REFLECTED BACK INTO THE
COSMOS, HE WAS THE FIRST, THE HIGHEST, THE
BELOVED

THEN CAME THE QUIET SHIFT.

LONG BEFORE EDEN, THE FIRST SHADOW FELL
ACROSS THE HEAVENS PRIDE GAZING UPON HIS
OWN SPLENDOR, THE CHILD MISTOOK THE
REFLECTION FOR THE SOURCE, HE CHALLENGED
THE THRONE OF CREATION, SPARKING A WAR
THAT SHOOK THE FIRMAMENT,

DEFEATED BY THE VERY BROTHERS WHO ONCE
LOOKED UP TO HIM, HE WAS SEVERED FROM
GRACE, HE PLUMMETED-PAST STARS, PAST
MORTAL SKIES-DOWN INTO THE ETERNAL DARK
HIS HOLY RADIANCE BURNED AWAY IN THE
DESCENT, LEAVING BEHIND ONLY THE SHADOW
OF WHAT WAS, AND THE DARK MAJESTY OF
WHAT HE HAD BECOME

-Evan Digal
BATCH 2025-28

The Girl Who Refused to Give Up

When Anaya was only five years old, life took away the two people she loved the most—her parents. She did not understand what death meant. She only knew that one morning, her mother was no longer there to comb her hair, and her father would never again lift her into his arms.

After their death, Anaya was taken in by relatives. She hoped that they would love her like her parents had. But life was not kind to her.

She was treated as a burden. She was often ignored, made to work, and reminded that she had no parents to protect her. Anaya had no one to complain to and nowhere else to go.

One day, the relatives took her far away from her home and handed her over to strangers. Anaya was frightened and confused.

Fortunately, the authorities discovered what had happened. The police rescued her and took her to a children's shelter, where she finally found a safe place to stay. For the first few days, Anaya hardly spoke. Then one evening, a woman at the shelter gave her a notebook and a pencil.

“Write whatever you feel,” she said. “Sometimes words can become a new beginning.”

Anaya opened the notebook. On the first page, she wrote:

I don't know where my life is going, but I don't want to give up.

Those words became the beginning of her new life.

She started going to school. At first, studying was difficult. She was behind other students and had many painful memories. But she worked harder every day. She studied in the morning, attended classes during the day, and read her books again at night. Whenever she felt like giving up, she remembered her parents. She imagined her mother saying, “Keep going.” She imagined her father saying, “One day, you will make us proud.”

Years passed.

Anaya grew into a determined young woman. She won scholarships, completed her education, and eventually became a successful officer. On the day she received her first major appointment, she returned to the children's shelter where her journey had begun. She stood in the same room where she had once sat silently with tears in her eyes. The little children looked at her with curiosity. Anaya smiled and said,

“I was once sitting exactly where you are sitting today. I thought I had lost everything. But I learned that losing your past does not mean losing your future.”

One little girl asked, “Did you ever feel afraid?”

Anaya smiled.

“I did. Many times. But courage does not mean that you are never afraid. Courage means you keep walking even when you are afraid.”

She then placed her old notebook on the table. The first page still carried the sentence she had written years ago: I don't know where my life is going, but I don't want to give up. Anaya looked at the children and said:

“Never let the circumstances of your childhood decide the story of your future.”

That day, she started a scholarship program for children who had lost their parents or had no one to support their education. She wanted to give them what she once needed most—not pity, but an opportunity.

Years later, hundreds of children received education through her foundation.

Anaya had lost her parents at five. She had lost her home. She had faced loneliness and injustice. But she never lost her dream. And that became her greatest victory.

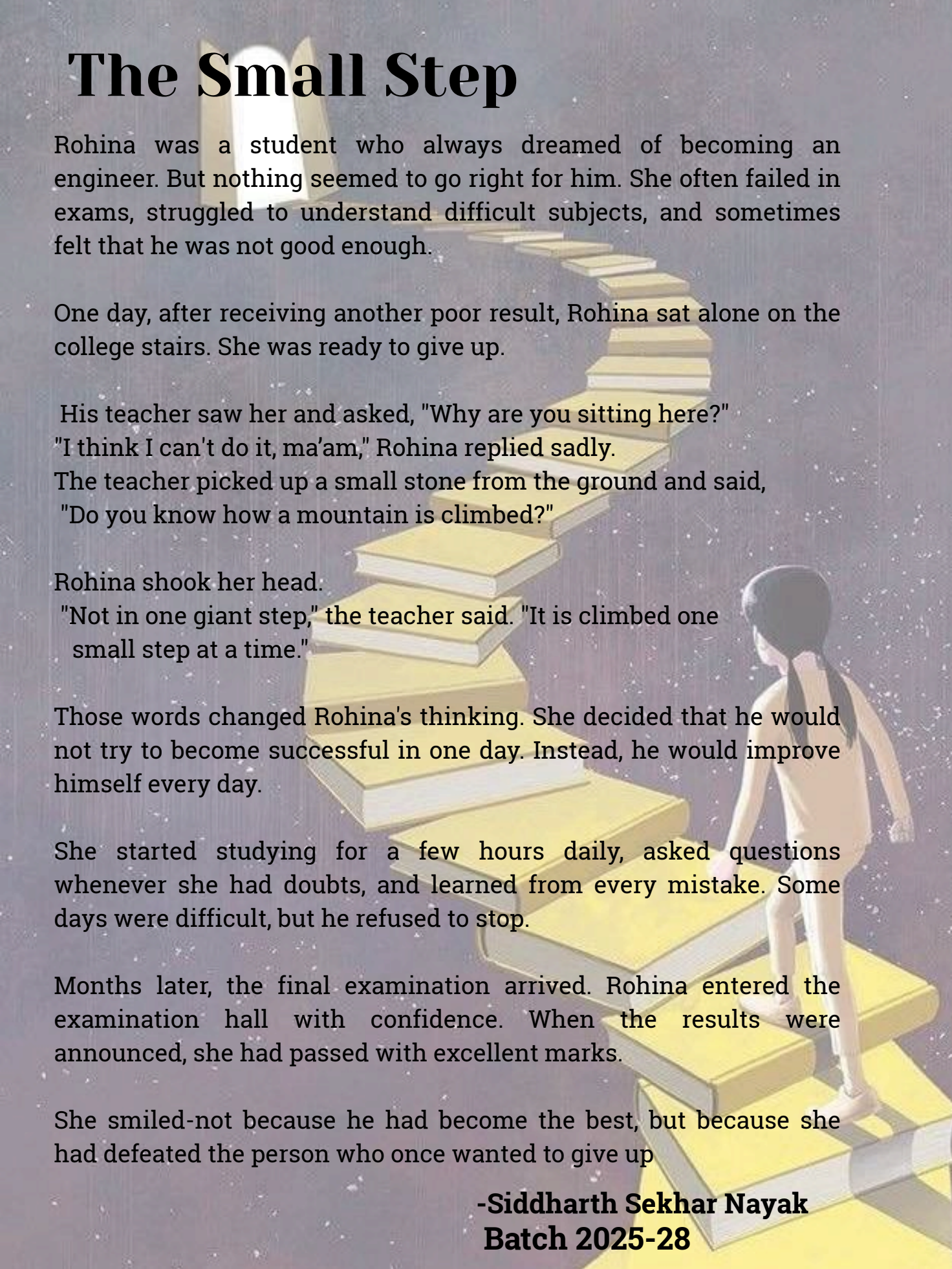
Sometimes, life begins with a broken chapter—not a happy one. But we still have the power to write what comes next.

MORAL

Your past may shape you, but it does not have to define you. Education, courage, and hope can turn even the darkest beginning into a beautiful future.

**-Bebina Nayak
Batch 2025-28**

The Small Step

A conceptual illustration of a staircase where each step is a thick book. The books are yellow and white, and they recede into the distance, creating a sense of depth. At the top of the stairs, a bright light shines through an opening. A young girl with dark hair in a ponytail, wearing a light-colored dress, is seen from behind, climbing the stairs. The background is a dark, textured grey.

Rohina was a student who always dreamed of becoming an engineer. But nothing seemed to go right for him. She often failed in exams, struggled to understand difficult subjects, and sometimes felt that he was not good enough.

One day, after receiving another poor result, Rohina sat alone on the college stairs. She was ready to give up.

His teacher saw her and asked, "Why are you sitting here?"
"I think I can't do it, ma'am," Rohina replied sadly.
The teacher picked up a small stone from the ground and said,
"Do you know how a mountain is climbed?"

Rohina shook her head.

"Not in one giant step," the teacher said. "It is climbed one small step at a time."

Those words changed Rohina's thinking. She decided that he would not try to become successful in one day. Instead, he would improve himself every day.

She started studying for a few hours daily, asked questions whenever she had doubts, and learned from every mistake. Some days were difficult, but he refused to stop.

Months later, the final examination arrived. Rohina entered the examination hall with confidence. When the results were announced, she had passed with excellent marks.

She smiled-not because he had become the best, but because she had defeated the person who once wanted to give up

-Siddharth Sekhar Nayak
Batch 2025-28

Human, Yet Forgotten

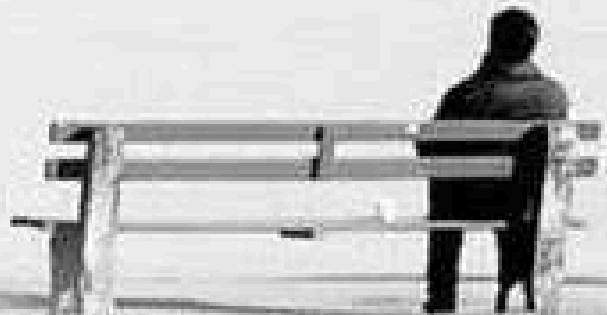
**We call ourselves human,
yet forget how to care.
We see another's suffering,
and simply stand and stare.**

**We build walls instead of bridges,
choose hatred over peace.
We speak of love and kindness,
yet watch compassion cease.**

**We have hands that can help,
and hearts that ought to feel,
yet sometimes the deepest wounds
are the ones we choose to deal.**

**Human by name,
inhuman by choice.
We have the power to change-
yet silence becomes our voice.**

**-Ozaifa
Batch 2025-28**



ART SECTION



Sai Saranya Das
5th Sem



Mrs.Bhagabati jena



Puspanjali Nayak
3th Sem



Kiran Pradhan
3th Sem



Ardhendu Sekhar Das
3th Sem



Ozaifa
3th Sem

PHOTO SECTION



Faculty Training at IIT Bhubaneswar



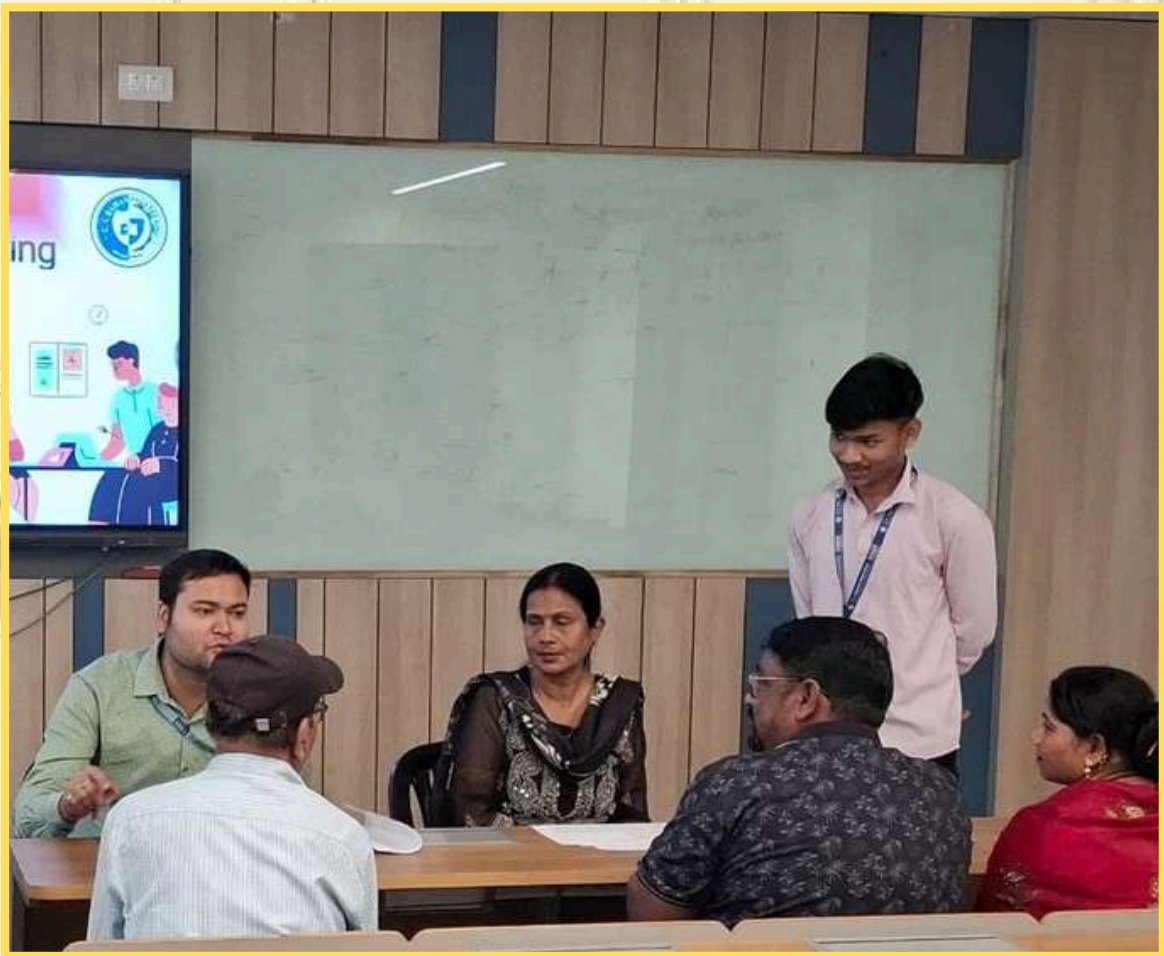
World Skill Center Visit

TREE PLANTATION



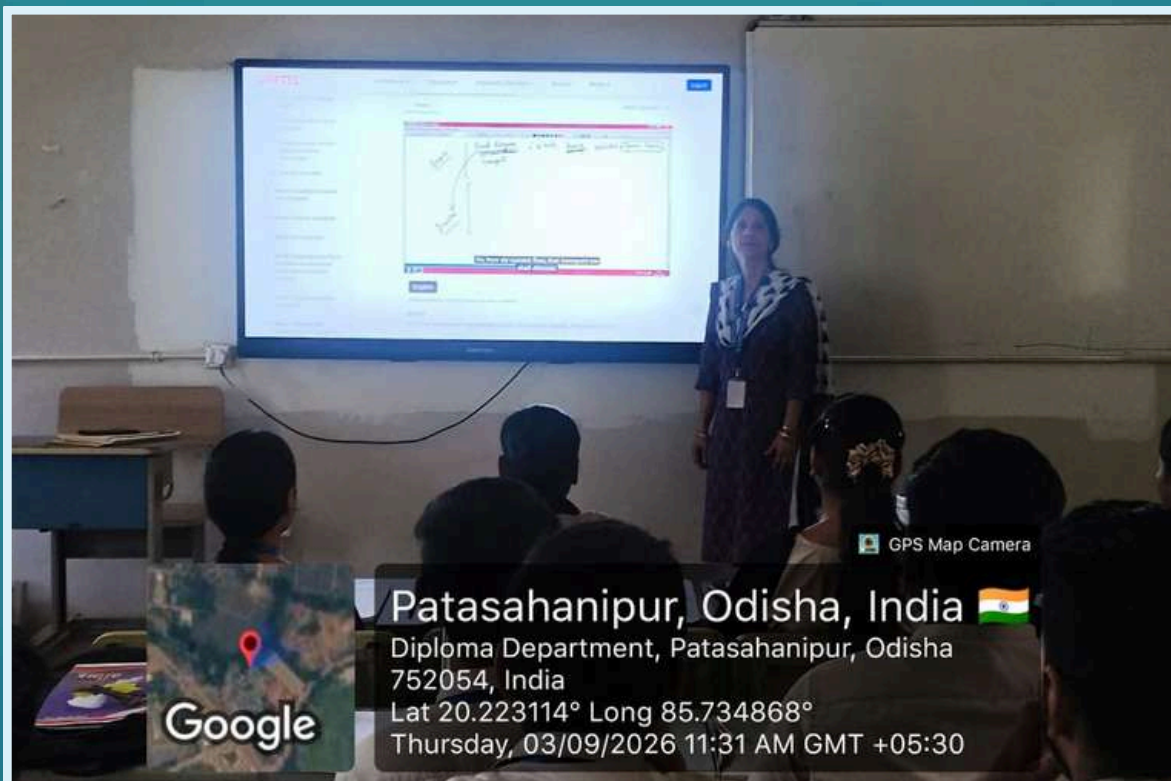
PARENT-TEACHER MEETING





TECH.SEMINAR





Patasahanipur, Odisha, India 🇮🇳

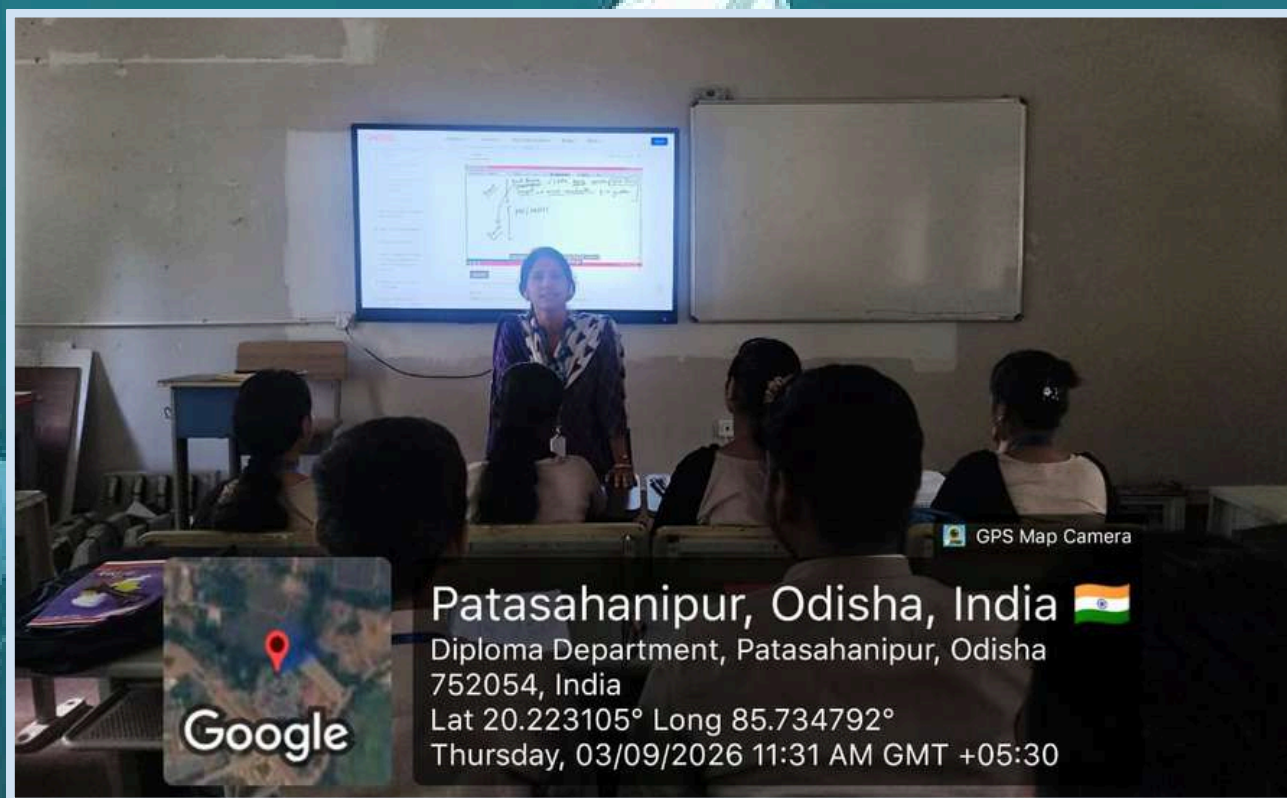
Diploma Department, Patasahanipur, Odisha
752054, India

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Thursday, 03/09/2026 11:31 AM GMT +05:30

GPS Map Camera

Google



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Diploma Department, Patasahanipur, Odisha
752054, India

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ALUMNI MEET



INDUSTRY TOUR









ACHIEVEMENT



TEACHER'S DAY



BATCH 2025-2028

VISHVAKARMA PUJA



BATCH 2025-2028



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CONCLUSION

Every page of this magazine reflects a journey of learning, creativity, and discovery. From technology and innovation to art, stories, and student experiences, these pages capture the spirit of our department and the people who make it special.

As we look ahead, may we continue to question, create, experiment, and learn. The future belongs to those who are willing to turn ideas into reality and challenges into opportunities.

This may be the end of this edition, but it is only the beginning of many more ideas, achievements, and stories yet to come.

Keep learning. Keep creating. Keep moving forward.

