



Vishnu Waman Thakur Charitable Trust's  
**VIVA Institute of Technology**

Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra  
And Affiliated to University of Mumbai

**ACCREDITED by NAAC with "B++" Grade**

DEPARTMENT OF HUMANITIES & APPLIED SCIENCES

✦  
ACADEMIC YEAR 2025-2026

# HORIZON

DEFINING EXCELLENCE







## ***Vision:***

VIVA Institute of Technology strives to impart total quality education by means of equipping students with knowledge and skills in their chosen stream, inculcating cultural and ethical values, identifying hidden talents, providing opportunities for students to realize their full potential and thus shape them into future leaders, entrepreneurs and above all good human beings.

## ***Mission:***

To develop the standard of the institute above bench mark level by providing students with advanced knowledge and latest technology in the chosen discipline by tapping their hidden and obvious potential, moulding them into good and responsible citizens by playing a meaningful role in industry and society.



# About the department

*The First Year Department of Viva Institute of Technology is the foundation of every student's engineering journey. We aim to provide a positive and engaging environment where students can learn, explore, and grow.*

*Our department focuses on building strong academic fundamentals, technical knowledge, communication skills, teamwork, creativity, and problem solving abilities. Through lectures, practical sessions, workshops, activities, and various learning experiences, students are encouraged to develop both knowledge and confidence.*

*Our dedicated faculty members continuously guide and motivate students to discover their talents and make the most of their college experience. We also encourage students to participate in co-curricular and extracurricular activities for their overall development.*

*The First Year Department is not just about academics; it is where students make new friends, discover new opportunities, and take their first steps toward becoming successful engineers.*

*At Viva Institute of Technology, we believe that every great journey begins with a strong foundation*



# Principal's Message



It gives me immense pleasure to present this edition of our college magazine, which reflects the enthusiasm, creativity, and achievements of our students and faculty. A college is not merely a place for acquiring knowledge but a platform for shaping responsible, innovative, and compassionate individuals. Engineering education today

demands much more than academic excellence. It requires curiosity, critical thinking, discipline, and the courage to embrace challenges. I encourage every student to make the best use of the opportunities available at our institute, participate actively in co-curricular and extracurricular activities, and develop the skills needed to thrive in a rapidly changing world.

Success is built on dedication, perseverance, and continuous learning. Every classroom lesson, project, competition, and experience contributes to your personal and professional growth. Let this magazine serve as a celebration of your talent, hard work, and collective achievements.

My sincere appreciation to the editorial team, faculty, and students for making this publication possible. Wishing all students continued success in their academic journey and future endeavors.

-Dr. Arunkumar

**Best Wishes!**



# ***Vice Principal's MESSAGE***



The First Year Engineering Department is the foundation of every student's academic journey, where knowledge, skills, and values come together to shape future engineers. Our aim is to provide a strong grounding in fundamental concepts while fostering curiosity, analytical thinking, and confidence..

With the guidance of our experienced and dedicated faculty, students are encouraged to explore, innovate, and grow in a supportive learning environment. Through quality education, mentorship, and holistic development, we prepare them to face future challenges with competence, integrity, and a spirit of lifelong learning.

We remain committed to nurturing responsible professionals who will contribute meaningfully to society and the engineering profession.

-Dr. Archana Ingle

**Best Wishes!**



# ***HOD'S MESSAGE***



The First Year Engineering Department is the foundation of every student's academic journey, where knowledge, skills, and values come together to shape future engineers. Our aim is to provide a strong grounding in fundamental concepts while fostering curiosity, analytical thinking, and confidence..

With the guidance of our experienced and dedicated faculty, students are encouraged to explore, innovate, and grow in a supportive learning environment. Through quality education, mentorship, and holistic development, we prepare them to face future challenges with competence, integrity, and a spirit of lifelong learning.

We remain committed to nurturing responsible professionals who will contribute meaningfully to society and the engineering profession.

- MRS. MANJU MISHRA

*Department of Humanities and Applied Sciences*

**Best Wishes!**



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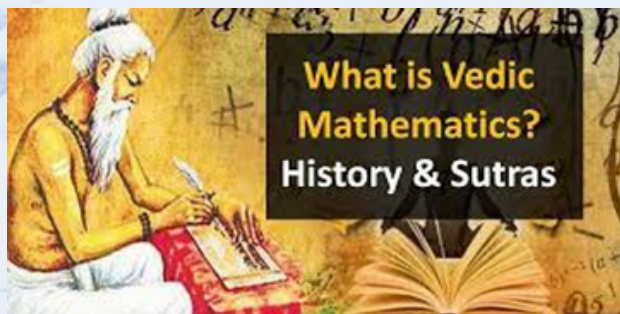


# Articles





# VEDIC MATHEMATICS



Mathematics is treasure of many discipline mainly engineering and technology. We can't imagine Engineering without math. Mathematics has main two parts

- Ø Pure Mathematics.
- Ø Applied Mathematics.

Vedic Mathematics is a superb package of both that is Arithmetical computations, algebraic operation, compound multiplication, factorization, easy quadratic and better order equation, simultaneous equation, partial fraction, calculus, squaring, cubing, rectangular roots, dice roots and coordinates, geometry etc.

Vedic Mathematics is actually an Indian system of calculation. Now a days for its simplicity, speed and accuracy in calculation it spreading worldwide. This system entitled under the heading "Vedic Mathematics" written and published as book by "Jagadguru Shankaracharya Bharati Krishna Tirthji" in 1965. Swamiji quoted that "Veda has fountainhead of all knowledge that required for science and Humanity" that inspire him to write the book. It is set of sixteen mathematical sutras discovered by swamiji. We know that there are four Vedas. four upvedas and sixteen vedangas.

- v Rugveda
- v Yajurveda
- v Samveda
- v Atharveda

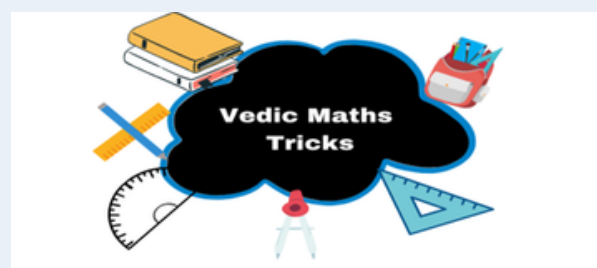
Each of these deals with specific subject out of which Atharveda dealt with subject of architecture

engineering and general mathematics so the birth of Vedic mathematics is from atharvveda.



## Benefits of Vedic Mathematics:

- 1) To learn our ancient method we required to remember the 1 to 9 tables. so it reduce your burden of remembering a large amount of stuff.
- 2) It also save your time of calculations You can save a lot of time, thus you can utilize that time in answering more questions in an exam.
- 3) It reduces scratch work and finger counting to a great extent.
- 4) It encourages mental calculations and visualizing and thus helps in developing mental faculties like concentration and confidence.
- 5) Vedic Math helps enrich our understanding of Mathematics and thus we can see a continual link between different branches of it.



## Tricks of Vedic Mathematics used in :

1. Academics - Enhance the maths skill and performance in school and competitive exam
2. Professionals – Boost Productivity and efficiency in calculation, data analysis and problem solving

**Mrs. Bhagyashri Suresh Netke**  
Assistant professor, HAS Department

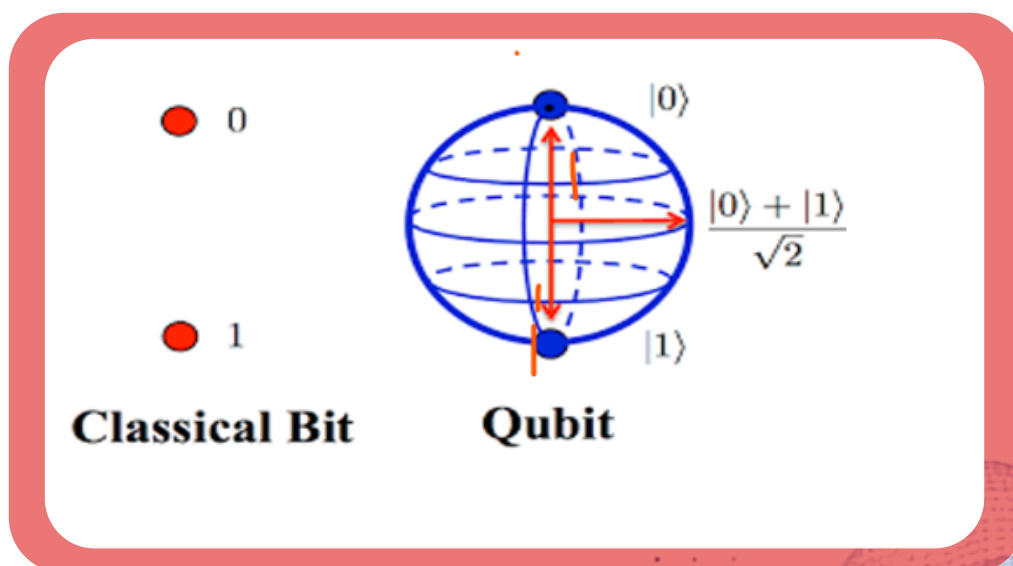


## New quantum computing breakthroughs promise to transform industry.

Scientists and engineers have achieved a major milestone in quantum computing, developing a new system that could revolutionize the industry (Chemical, IT, healthcare, mechanical, and finance, etc.). A new quantum computing system has been developed that can solve complex problems far faster than classical computers.

Classical computers work on the principle of classical physics, where binary logic is used as a bit, which can be either 0 (lower state) or 1 (High state), as shown in Fig. 1. On the other hand, quantum computers work on the principle of quantum superposition and form quantum bits. Qubits are interconnected through a phenomenon of quantum entanglement that allows the quantum computer to process the vast amount of data simultaneously.

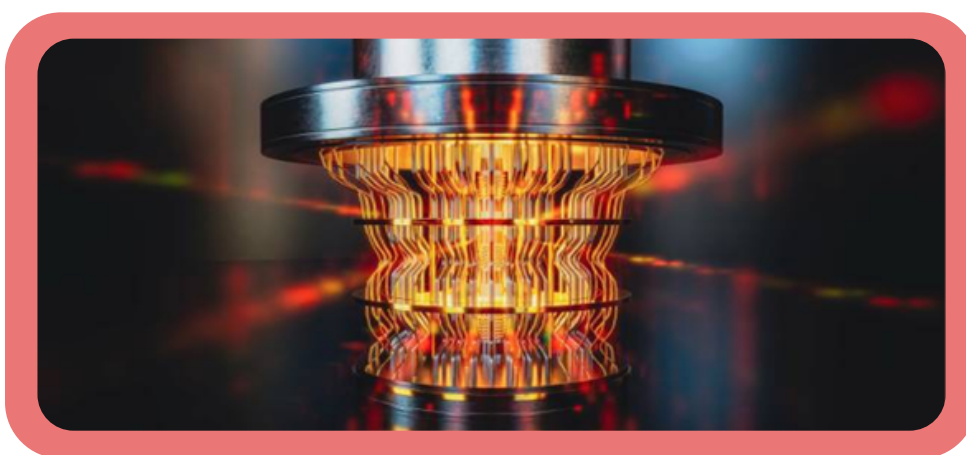
Fig. 1





Groundbreaking advancement in quantum computing is set to revolutionize industries across the globe. Scientists are developing a new quantum processor, as shown in Fig. 2, that dramatically increases the stability and efficiency of quantum computations. This breakthrough addresses one of the major challenges in quantum computing: to reduce errors that occur during calculations.

Fig. 2



This innovative idea and invention is expected to accelerate developments in various industries, including pharmaceuticals, materials science, and cryptography. Industries reliant on heavy computational tasks, such as financial modeling and supply chain optimization, stand to benefit immensely from this technology.

Experts predict that quantum computers will become more accessible and commercially viable within the coming few years. The implications are vast, with the potential to solve problems that are currently beyond the reach of classical computers, opening the door to innovations that could transform sectors worldwide.

**DR. AJAZUL HAQUE, ASSISTANT PROFESSOR,  
HAS DEPARTMENT**

# अभियांत्रिकीसाठी गणितकसे आवश्यक आहे ?

$$\int f(x) dx$$

अभियांत्रिकीमध्ये गणित महत्त्वाची भूमिका बजावते, ज्याच्या आधारावर अभियंते आकार घेतात आणि वास्तविक-जगातील समस्या सोडवण्यासाठी त्यांचे ज्ञान देतात. येथे काही महत्त्वपूर्ण तंत्रे आहेत ज्यात अभियांत्रिकीमध्ये गणित आवश्यक आहे:

**समस्या सोडवणे:** अभियंते नियमितपणे जटिल समस्यांना सामोरे जातात ज्यात तार्किक विचार आणि समस्या सोडवण्याची कौशल्ये असतात. गणित ही कौशल्ये उदयास येण्यासाठी पाया प्रदान करते आणि अभियंत्यांना गुंतागुंतीच्या समस्यांचे छोट्या, जुळवून घेण्यायोग्य घटकांमध्ये विभाजन करण्यास सुलभ करते.

**मॉडेलिंग आणि विश्लेषण:** अभियंते वास्तविक-जगातील प्रणालींचे प्रतिनिधित्व करण्यासाठी गणितीय मॉडेलसचा सराव करतात, मग ते संरचना डिझाइन करत असतील, प्रक्रिया ऑप्टिमाइझ करत असतील किंवा भौतिक घटनांचे अनुकरण करत असतील. गणित अभियंत्यांना या मॉडेलसचे विश्लेषण करण्यासाठी, परिणामांचा अंदाज लावण्यासाठी आणि चांगले निष्कर्ष काढण्यासाठी समर्थन देते.

**अचूकता आणि अचूकता:** अभियांत्रिकी उच्च पातळीवर अचूकता आणि अचूकतेची मागणी करते. गणिती संकल्पना आणि साधने, जसे की कॅल्क्युलस, बीजगणित आणि सांख्यिकी, अभियंत्यांना विशिष्ट गणना आणि मोजमाप करण्याची परवानगी देतात, ज्यामुळे डिझाइन आणि विश्लेषणातील त्रुटींचा धोका कमी होतो.

**ऑप्टिमायझेशन:** अभियंते नियमितपणे सिस्टम आणि प्रक्रियांना विशिष्ट उद्दिष्टे गाठण्यासाठी ऑप्टिमाइझ करू इच्छितात, जसे की खर्च कमी करणे, कार्यक्षमता वाढवणे किंवा कार्यप्रदर्शन ऑप्टिमाइझ करणे. गणितीय ऑप्टिमायझेशन तंत्रे अभियंत्यांना अनेक संभाव्य पर्यायांपैकी सर्वोत्तम उपाय शोधतात.

**डिझाइन आणि इनोव्हेशन:** गणिताची तत्त्वे असंख्य अभियांत्रिकी प्रणाली आणि तंत्रज्ञानाच्या डिझाइनला समर्थन देतात. ब्रिज, विमान किंवा संगणक चिप डिझाइन करणे असो, अभियंते त्यांची रचना कार्यक्षम, निरुपद्रवी आणि सुव्यवस्थित असल्याची पुष्टी करण्यासाठी गणिताच्या तत्त्वांवर विश्वास ठेवतात.

$$\sigma = \frac{F}{A}$$

$$V = \pi r^2 h$$

CALCULUS

ALGEBRA

STATISTICS

ENGINEERING



डेटा विश्लेषण: डेटा-चालित निर्णय घेण्याच्या युगात, अभियंत्यांना प्रक्रिया आणि उत्पादने सुधारण्यासाठी डेटाच्या मोठ्या संचाचे विश्लेषण करायचे आहे. डेटामधून अर्थपूर्ण निष्कर्ष काढण्यासाठी आणि चांगले निर्णय घेण्यासाठी आकडेवारी आणि डेटा विश्लेषण तंत्रांची आवश्यकता आहे.

इलेक्ट्रिकल आणि इलेक्ट्रॉनिक्स अभियांत्रिकी: इलेक्ट्रिकल आणि इलेक्ट्रॉनिक्स अभियांत्रिकी सारख्या क्षेत्रात कार्यरत अभियंते सर्किट डिझाइन करण्यासाठी, सिग्नलचे विश्लेषण करण्यासाठी आणि इलेक्ट्रॉनिक प्रणाली विकसित करण्यासाठी जटिल संख्या आणि भिन्न समीकरणे यासारख्या गणिती संकल्पनांवर खोलवर विश्वास ठेवतात.

मटेरियल सायन्स आणि मेकॅनिक्स: मटेरियल सायन्स आणि मेकॅनिक्स यांसारख्या क्षेत्रातील अभियंते वेगवेगळ्या परिस्थितीत सामग्रीचे कार्यप्रदर्शन ओळखण्यासाठी गणितीय संकल्पनांचा सराव करतात, यांत्रिक गोष्टींचा अंदाज लावतात आणि अनेक भार सहन करू शकतील अशा एंटरप्राइझ संरचना.

आविष्कार आणि शोध: संशोधन आणि विकासामध्ये गुंतलेल्या अभियंत्यांना तंत्रज्ञान आणि आविष्काराच्या सीमांना पुढे ढकलण्यासाठी प्रगत गणिती साधने आणि तंत्रांची वारंवार आवश्यकता असते.

गणित ही अभियांत्रिकीची भाषा आहे. ते सुरक्षा, कार्यक्षमता आणि कार्यप्रदर्शन आवश्यकता पूर्ण करतात याची खात्री करून, सिस्टम डिझाइन, विश्लेषण आणि ऑप्टिमाइझ करण्यासाठी अभियंत्यांसाठी आवश्यक विश्लेषणात्मक आणि समस्या-निराकरण साधने प्रदान करते. अभियांत्रिकी अनेक अभियांत्रिकी शाखांद्वारे चांगले निष्कर्ष काढण्यासाठी आणि तांत्रिक प्रगतीसाठी प्रयत्न करण्यासाठी गणित हे मूलभूत साधन म्हणून वापरतात.

अभियांत्रिकीसाठी केवळ गणित महत्त्वाचे नाही; ते क्षेत्रासाठी पायाभूत आहे. गणिताशिवाय, अभियांत्रिकी विविध उद्योगांमध्ये अभियंत्यांना भेडसावणाऱ्या गुंतागुंतीच्या समस्यांसाठी सुरक्षित, कार्यक्षम आणि नाविन्यपूर्ण उपाय डिझाइन करण्याच्या क्षमतेमध्ये गंभीरपणे मर्यादित असेल.

Thanks!!

**DR.J.C.JAIN, ASSISTANT PROFESSOR,  
HAS DEPARTMENT**

CALCULUS  
ALGEBRA  
STATISTICS  
ENGINEERING

$$V = \pi r^2 h$$

$$\sigma = \frac{F}{A}$$

$$y = mx + c$$

$$\int f(x) dx$$

$$\frac{d^2y}{dx^2}$$

$$\sum_{i=1}^n x_i$$

# 4-D PRINTING

This discovery was made by computer scientist Skylar Tibbits, founder and co-director of the assembly lab at the Massachusetts Institute of Technology aka (MIT). 4D printing is a developing technology. 4D printing uses the same layered approach as 3D printing, but the created product is three-dimensional. When exposed to external stimuli such as heat, light, water, or magnetic fields, the 3D object can change its shape gradually into different configurations. The fourth dimension experiences a time-dependent shape change after printing

## HOW 4D PRINTING WORKS

4D printing is an advanced form of 3D printing that uses stimuli-responsive materials or programmable matter. The process involves:

- **Responsive Materials:** Uses advanced materials such as hydrogels, shape memory polymers, and responsive polymers that change shape or physical-chemical properties when exposed to specific external stimuli.
- **Programming by Design:** Engineers design specific geometries or microstructures so the material deforms in a predetermined way when exposed to a stimulus, through the integration of specific geometrical configurations or microstructures in the design of the material.
- **Response to Stimulus:** The printed object changes shape by bending, folding, stretching, or compressing, based on its design and material properties, when exposed to a programmed stimulus once it is printed. For example, a flat 4D-printed object can alter its form when heated.

## MATERIALS IN 4D PRINTING

- **Shape memory polymers:** These are the polymers that can return to their original configuration and shape upon removal of the mechanical deformation force. These properties include the common materials employed for 4D printing.
- **Hydrogels:** Some synthetic hydrogels can also show shape-memory properties.
- **Light-responsive materials:** A material sub-class that can change both its property, or architecture, or shape as a response to different light wavelengths.
- **Humidity-responsive materials:** high-switching, expands when liquid is present, or collapses when dry



## Applications of 4D Printing

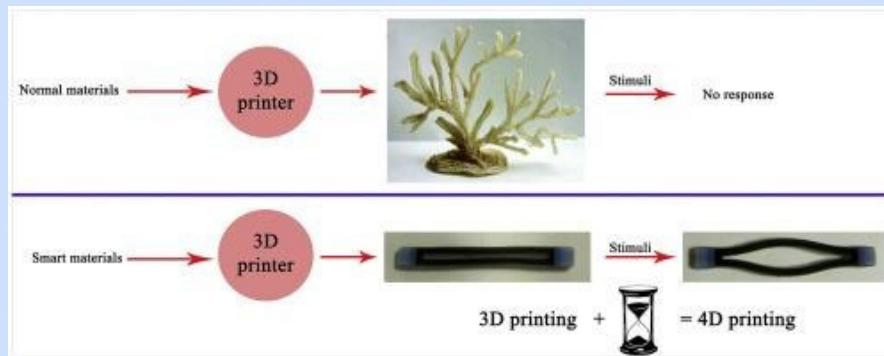
**Biomedical device:** 4D printing is bringing revolution in healthcare by enabling the manufacture of smart medical tools like drug delivery systems, micromodels and self-adjusting stents. These innovative treatments can improve accuracy and patient results.

**Construction:** In the construction industry, 4D printing can reduce the requirement of manual labor and external power sources, allowing the material to reopen or collect itself over time, making the building processes more efficient and durable.

**Aerospace:** This technique has exciting capacity in aerospace, where materials that suit the changing conditions can give rise to strong, more efficient and long lasting aircraft and spacecraft components

**Differences Between 3D Printing and 4D Printing:** Both technologies create objects layer by layer; however, the transformation and final product functionality are what set them apart

|              | 3D printing                                    | 4D printing                                                                                      |
|--------------|------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Output       | Static objects                                 | Shapeshifting objects                                                                            |
| Materials    | Thermoplastics, metals, ceramics, Biomaterials | Innovative materials<br>multiform                                                                |
| Printers     | Printers that print in 3D                      | Smart 3D printers, or<br>multiprinter                                                            |
| Applications | Jewellery, toys, and<br>fashion                | Biomedical devices, self<br>repairing pipes<br>and Furniture that changes<br>shape as you<br>use |



In short, when 3D printing creates stable items, 4D printing and capable items for adaptability produce, opening the door to new applications that can respond to their environment.

### Future probability:

Multi-functional material with complex reactions.

Cheaper and scalable production methods.

Applications in ROB Robotics, where printed structures can mimic organic movement.

4D printing is expected to grow with applications in many industries in the future. 4D printing is still a new technique, and there are challenges to remove it. From self-healing infrastructure to personal medical transplantation, the possibilities are wide.

**AYUSHI VIJAY ACHAREKAR**  
**EXTC/FE. DIV:E ROLL.NO:01**



# Engineering Life

Hello my dear friends, It's me, Ruchita your friend. I am writing this article not to provide information, but to give a little reminder about why you chose engineering. And this is not just about one branch; I am talking to all my engineer friends from every branch those who work hard day and night, always learning something new, and those who dream of contributing to Indian technology so that it can grow like Japan and China.

But not all of us are the same. Have you ever asked yourself why you chose engineering over every other field? Why? Have you ever wondered why only engineering? Some of us say things like: it's trending, I want a job, I don't have any other option, my family to me to choose it, blah blah blah. But have you ever chosen engineering for yourself?

Engineering isn't just a profession, guys. It helps you understand your capabilities and skills, and shows you how you can shape the world. But because of social media like Instagram, where people make jokes about engineering and engineers, our minds slowly start taking it seriously.

Engineers can shape the world with their skills, but social media has killed these thoughts. Slowly, we start believing that engineering is a waste of time and money. Engineering is a waste of time and money only if you are not interested in it, if you don't build skills, and if you don't know how to use those skills.

Thank you.

RUCHITA PATIL  
FE B - CSE(AIML)



# Student's Achievement





# 1<sup>st</sup> Prize in NCRENB 2026

**Samarth Chavan**  
**Tejas Ajalsonde**  
**Aditya Armare**

**A CASE STUDY ON AI CYBER  
RAKSHAK: MITIGATING DIGITAL  
ARREST USING MACHINE LEARNING**



**Jansi Dilesh Patil**  
**FE CSE(AIML) - B**

**3 Gold in Under/19 Girls,  
Senior Women Freestyle  
Recurve Round**





## Inter-college Events



(HITASHI 2K26)

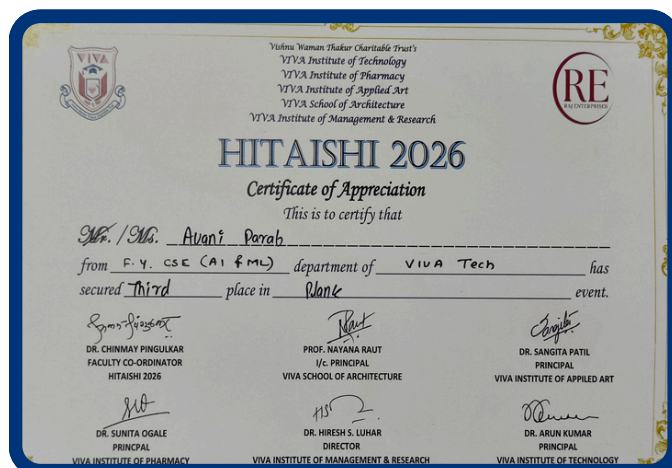
**SECURED 3<sup>RD</sup> PLACE IN KHO KHO  
FE (ECE) - D**



**SECURED 3<sup>RD</sup> PLACE IN  
Poster Presenting Competition,  
INGENIOUS 2K26  
FE CSE(AIML) - A**



# Certificate's





# Poems

words  
that  
breathe  
the  
unspoken.  
feelings.  
dreams.  
hope.





# Life

A girl sitting alone in the darkest night,  
Hoping for a bright sunrise.

A girl with ambitions and dreams,  
Keeps falling, but tries to rise again.

A girl who was once loved by everyone,  
Now she is hated for no reason.

A girl who is giving her best,  
But losing in everything,  
maybe because of her fate.

A girl with desires and a bright shine in  
her eyes,  
Now she feels lonely,  
but she never cries.

A girl who is waiting for a clear sky,  
Because she wants to fly high.

Waiting for sunrise, but the sunset  
never ends.

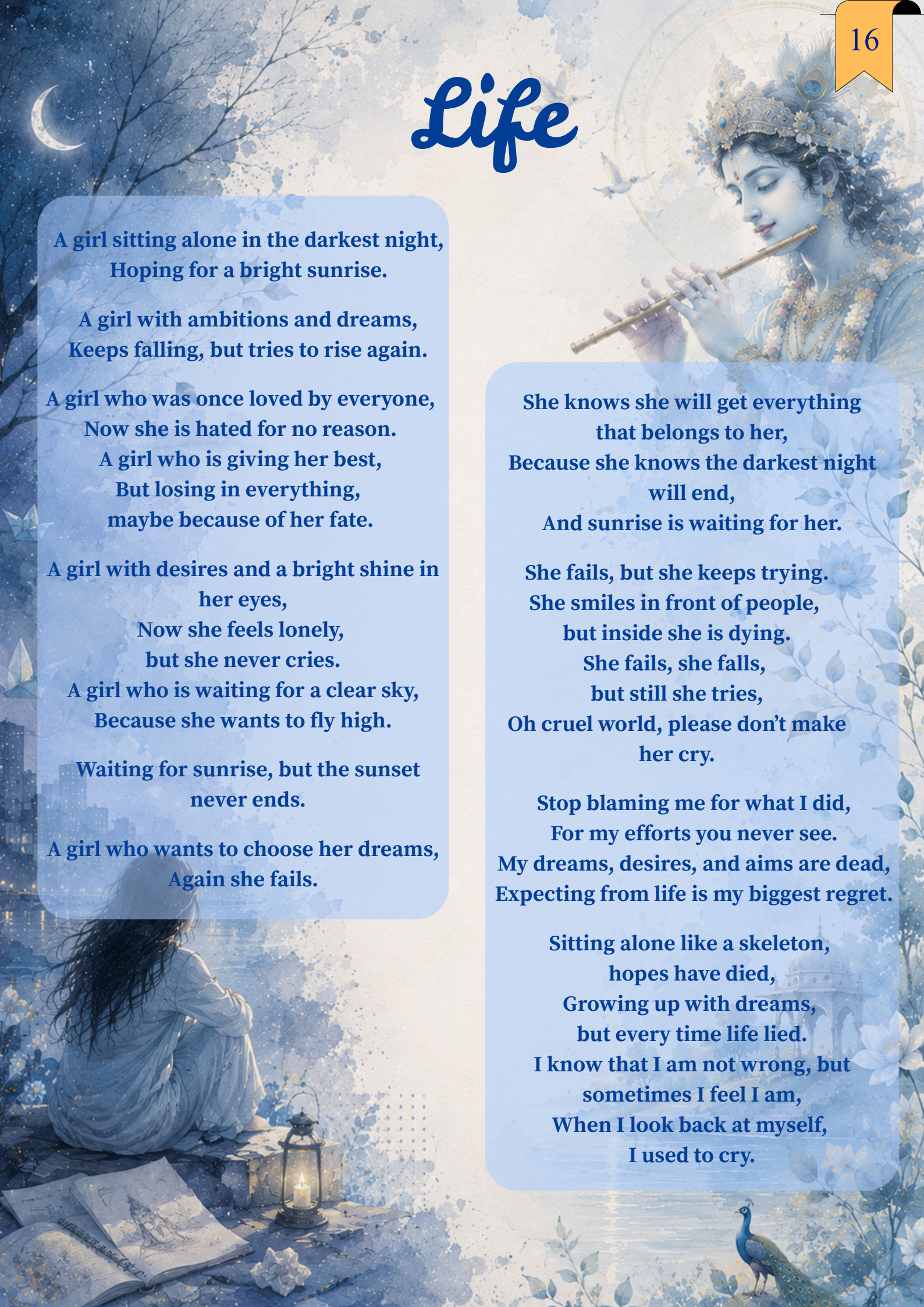
A girl who wants to choose her dreams,  
Again she fails.

She knows she will get everything  
that belongs to her,  
Because she knows the darkest night  
will end,  
And sunrise is waiting for her.

She fails, but she keeps trying.  
She smiles in front of people,  
but inside she is dying.  
She fails, she falls,  
but still she tries,  
Oh cruel world, please don't make  
her cry.

Stop blaming me for what I did,  
For my efforts you never see.  
My dreams, desires, and aims are dead,  
Expecting from life is my biggest regret.

Sitting alone like a skeleton,  
hopes have died,  
Growing up with dreams,  
but every time life lied.  
I know that I am not wrong, but  
sometimes I feel I am,  
When I look back at myself,  
I used to cry.





I wish that death would  
come to me early,  
So I could find peace and finally be  
free.

I was a kid who waited for birthdays  
with delight,  
Now I wish God would call me tonight.

I belong to a bright future but am stuck  
in darkness,  
Trying to reach death, but that's not  
written in my fate.

Life isn't easy, and it isn't that hard,  
I'll keep chasing my dreams, I know  
only I can.

Losing hope, but my dreams are real,  
Life feels useless,  
and the fear of living is real.  
Days become nightmares,  
nights turn cruel,  
Oh Shree Krishna, take me with you,  
I am not able to live here.

After some time,  
God gives a second chance,  
Everyone realizes it wasn't my fault.

**RUCHITA PATIL**  
**FE B - CSE(AIML)**

I pray to God and believe in Him,  
I know He will never leave me.  
Krishna always stands behind me,  
Guiding me and helping me.

My mother supports me even at  
my lowest,  
Because maybe she knows I'll  
change her fate.

God says desires never die,  
Ambition never falls.  
He says, support yourself, believe in  
yourself,  
You still have a chance.

My mother, with a pure heart, stays  
by my side,  
She raised me strong and taught me  
to be wise.  
My father is in heaven, but still he is  
here for me,  
He keeps me in his heart, from my  
birth till eternity.

Krishna says everything is possible  
when I believe in me.  
I surrender myself to Him,  
He has a better plan for me.



# चल, तो उंबरठा ओलांडूया

चल, तो उंबरठा ओलांडूया,  
पलीकडचे विश्व पाहूया  
ज्याची वाटते भीती चार भिंतीत ,  
त्याला सामर्थ्य आपले दाखवूया  
चल, तो उंबरठा ओलांडूया,  
पलीकडचे विश्व पाहूया

अनेक भेटतील नवे चेहरे ,  
त्यांचाही अभ्यास करूया  
जे न सापडले पुस्तकात,  
असेही धडे वाचूया  
थोडे चालूया, थोडे थांबूया  
माणसांच्या या वर्दळीत  
स्वतःला पाहूया  
चल,तो उंबरठा ओलांडूया,  
पलीकडचे विश्व पाहूया

जी मिळतील कुसुमे प्रशंसेची ,  
ती आदराने स्वीकारूया  
जे रूततील काटे आलोचनेचे,  
ते धैर्याने काढूया  
प्रगल्भ होऊया, स्वच्छंद होऊया  
अनिश्चित आभाळात उद्याच्या  
यशाचे रंग उधळूया  
चल,तो उंबरठा ओलांडूया,  
पलीकडचे विश्व पाहूया

महाराष्ट्र

SAMARTH CHAVAN  
FE A-CSE(AIML)

शोध

शिकणे

यश

जान हाच प्रकाश



# The Girl Who Stayed

*I wait where darkness learns to stay,  
And dreams feel farther every day.  
Not chasing stars I once held tight,  
Just learning how to survive the night.*

*I buried wishes, called it "choice,"  
Silenced my own trembling voice.  
They said, be strong, be practical, be wise,  
So I let my dreams slowly die.*

*There's a day I wish would fade to black,  
A memory time won't take back.  
It knocks at doors I try to close,  
A silent ache nobody knows.*

*I walk a path I didn't choose,  
Wearing smiles I've learned to use.  
Doing things my heart won't claim,  
Still carrying someone else's name.*

*But somewhere deep, beneath the fear,  
A softer truth still breathes in here.  
I'm broken, yes but not erased,  
Just a dreamer, bruised and misplaced.*

*And maybe one day, when I'm ready to see,  
I'll forgive the world... and finally, me.*

**SANCHI NILESH SANE**  
**F.E CSE(AIML) B**



# THE MURDER MYSTERY OF

## SHARMA SISTER'S

A SECRET. A NIGHT. A TRUTH  
THAT REFUSES TO STAY **BURIED**.

### BEYOND THE SHADOWS

Unravel stories that  
lie beneath the  
surface.

### MYSTERIES THAT HAUNT

Real or unreal?  
You decide.

### CLUES. LIES. CONSEQUENCES.

Every choice  
reveals a new dark  
possibility.



### CASE FILE

LOCATION:  
UNKNOWN

DATE:  
THE NIGHT EVERYTHING  
CHANGED

STATUS:  
**UNSOLVED**

Will you solve  
the mystery?

LOOK CLOSER. THINK DEEPER. SEE BEYOND.



25/09/2017

It was 12 PM, and I was going for a press conference not just as a journalist, but also to tell everyone the truth.

Shivani Singh had reached the venue. Everyone was waiting for her. It was a big hall, and hundreds of reporters were there waiting for her arrival. Finally, she entered. She was wearing a white floral dress with black earrings. Her hair was open, and she carried a sling bag.

The moment she stepped into the room, everyone's eyes were on her. She walked in very calmly and sat in her seat. Every reporter immediately started asking her questions.

A reporter sitting in the front row asked, "Madam, how did you solve the case? When everyone thought this would be another Akriti murder case..."

Shivani replied calmly, "At first, even I thought exactly the same that the Sharma sisters' murder case was another Akriti murder case, but somehow, I had this little hope in me that maybe something was wrong. That's why I tried. I tried until everything was solved."

The second reporter asked, "Madam, how did you find out that he was the killer? And why were you so invested in this case? Is it because one of the Sharma sisters, Priya Sharma, was your friend?"

Shivani replied without any hesitation or fear, "She was my friend or you can say, a sister. I felt like I lost everything when I heard about her death. So yes, that's why I was so invested in it. It wasn't just any killer. He killed my happiness too. It was my job to cover the story and find the killer to tell everyone, but it was personal too, because he killed my friend."

While saying this, she had tears in her eyes.

While the questions and answers were happening, I was sitting there watching her. I observed how calmly she was saying everything and yet how emotional she was. All I wanted was to know her story to know her properly.

I'm Ajay Kapoor, a writer. I've written multiple books, and many of them have been bestsellers. I write fictional mystery cases and murder mysteries too. But this time, I wanted to write something very real.



I'll write about this case the Sharma sisters' murder case. All I wanted was to convince Shivani to tell me everything from the very beginning. I was just waiting for the press conference to end.

After two hours, the press conference finally ended.

Now it was my time.

Shivani was about to leave through the gate when I went to her and said, "Hello, ma'am. I'm Ajay Kapoor. I'm a writer, and I want to write a book on the Sharma sisters' case. Ma'am, I need your help. You're the one who solved this case, and you know everything."

Shivani stood there calmly, listening to everything I was saying.

She replied, "Yeah, sure. I'll tell you everything, but not today. We can start tomorrow."

The moment Shivani said this, Ajay seemed very happy. There were lights of hope in his eyes.

He replied, "Yes, ma'am, sure. This is my card. Please come to my office at 12 PM tomorrow."

Shivani replied, "Okay," and she left.

Ajay was very happy. He grabbed his phone from his pocket and called his wife. He told her that Shivani had finally agreed to help with the book. After months of trying, it was finally happening.

His wife said, "Oh dear, I'm so happy! Finally, it's happening."

The next day, around 12:15 PM, Shivani reached Ajay's office in Andheri.

Ajay said, "It's okay. It's totally normal. I understand. Even I face this problem too. Please come in." There were a total of three people in the office Ajay, his assistant Vinod, and a servant named Rahul. Shivani came in, and Ajay offered her a seat. He told Rahul to bring coffee. Ajay and his assistant Vinod sat in front of Shivani, behind the table.

Vinod said, "Good afternoon, ma'am."

Shivani replied, "Good afternoon," and gave a little smile.

She was wearing a light brown short kurti with black bell bottom jeans. Her hair was open, and she wore black earrings with a sling bag in her hand.

She said, "Ask me anything. I'll try my best to tell you everything so that you can write the book."



Tell me, how do you write? Like from someone's perspective, or something raw, like a documentary? I'm telling you one thing or you can say this is my request."

Ajay replied, "Yes, ma'am. Anything. Try me."

She replied, "I don't want any changes in the book. No means no. Since lots of writers add their own thoughts or change things, I don't want that."

Don't change anything."

He replied, "Don't worry, ma'am. In fact, I'm done with writing fiction. I want to write a real story. I'll make this raw. But the whole thing will start with you, like you're the one telling how everything happened. Since this is your story, you're the protagonist of my book. So please start from the very beginning, where everything started."

Shivani replied, "Yes, why not? This is how my story starts."

It was 9 AM in the morning. I had to go to a press conference, and I was a little late that day like always.

I'm Shivani Singh, a 25 year old journalist in Mumbai. It was my dream to become a journalist since I was nine years old. Now, I had finally become one, but I still had never gotten a proper chance to prove myself.

Well, I was late as hell. No way was I going to get another lecture from Raj Sir.

I was in a hurry that day. It was 01/01/2016.

I was supposed to be present at the venue for a conference since an MLA had been arrested, and people from his party had held a press conference. But I got stuck in traffic, so Priya covered for me.

Still, I reached there.

When I arrived, I saw her and said, "Hey, Priya, sorry. I got stuck in traffic."

Priya replied, "Seriously, Shivani? It's daily now. You're so dead today. Raj Sir is already in a bad mood."

Shivani said, "Ah, it's fine. I've developed a habit now."

They both laughed.



*(The scene changed and came back to the present.)*

Ajay, while writing, asked, "So, you and Priya were best friends? Like, always?"

Shivani replied, "Yeah, since the beginning. When I joined the company, she was my first and only friend there. Her sister Riya was also one of my close friends."

Ajay asked, "Priya was a journalist too?"

Shivani replied, "No. Priya was pursuing fashion designing. But sometimes, when I was late instead of going to my house, I used to stay at her house, which was very near the office. So I often visited her house. That's how I knew her."

Ajay replied, "Oh, okay. Now tell me, how did you get to know about the murder?"

*(The scene changed back to the past)*

"On that day, after the press conference, I got a lecture from Raj Sir. To make me feel better, Priya brought me to her home. Riya was there too. She had come back from her college and was very tired, so she was sleeping in her bedroom."

Ajay asked, "And her parents?"

Shivani replied, "They were out of Mumbai for a wedding in Jaipur."

Ajay replied, "Oh, okay. Then what happened?"

Shivani continued, "I was there until 8 PM since our shift ended early. So we ordered some dinner from a hotel. We were there, chilling, and my mood changed too. We enjoyed our food."

"Then Priya got a call from her boyfriend, Ahaan."

Ajay asked, "Ahaan? Who was he? Was he in the same company as you guys?"

Shivani replied, "Yes, he was a journalist too, but from another department. We all studied in the same college, so we knew each other. Priya and Ahaan had been dating for three years."

Ajay replied, "Oh yeah, I remember reading about him in the newspaper. What happened after the call?"

Shivani replied, "He called her because they had a little fight over something. I had no idea at that time what exactly had happened. He was calling her, saying sorry, baby, and all that."



"So I asked her, 'Priya, what happened between you two?'"

Priya replied, "Nothing. It's just a little fight. We disagreed over something. I'll handle it."

Shivani asked, "Should I talk to him? Do you want me to talk to him? Tell me, I'll make him understand everything."

Priya replied, "No, no. It's fine. I'll handle that."

She smiled.

Shivani asked again, "Are you sure? You can handle it?"

Priya replied, "Yes."

Then a voice came from the bedroom. It was Riya saying, "Can you guys just shut up? I can't sleep properly because of your loud voices."

Shivani and Priya both laughed and said, "Sorry, dear."

After that, Shivani got a call from her father. He had come outside the building to pick her up.

Shivani answered the phone, said goodbye to Priya, and left.

The next morning, I got a call from Sneha, another friend who worked with us in the department. It was 6 AM when I received the call.

She told me that a murder had happened.

I was in shock after hearing what she said because the previous night, I had left their house at 10 PM. Until then, everything was completely fine.

I couldn't believe what I had heard.

Then I went there.

I saw their bodies.

The police were standing there.

I went straight to them and asked, "What happened, sir?"

They said, "Somebody was already inside the house and killed them. That's what we have understood from the investigation."

I said, "No, sir. That's not possible because I was here until 10 PM. Only me, Priya, and Riya were there."

The policeman asked, "Are you sure?"

I said, "Yes."



They took me with them to record my statement, and I told them everything.

Their parents also came Mr. and Mrs. Sharma.

I told them that I had been there and explained everything that had happened.

The main officer, Jaydeep, asked me, "Was there anyone? Any enemy or something? Did either of them have a fight with someone?"

I said, "She or her sister had no enemies. I don't know Riya that well, but Priya had no enemies. But yes, she had a fight with her boyfriend, Ahaan."

Officer Jaydeep raised his eyebrows.

"Ahaan? What kind of fight?"

Shivani replied, "I don't know. She didn't tell me what exactly happened, but she told me they disagreed about something, and he was calling her to apologize."

Officer Jaydeep asked me, "Do you know anything else about Priya?"

Then he asked me about Riya.

I said, "I was closer to Priya than Riya, but I do know that she had some very close friends Kinjal, Arya, Nyra, and her boyfriend Manish. I know them."

Shivani said, "Sir, tell me anything you need. I'll do anything. I just want to catch the killer. He killed my best friend."

He said, "Okay. Thanks for your statement. We will find the killer."

Even though he said this, my heart wasn't ready to rely completely on him.

I started my own investigation too.

Officer Jaydeep called Kinjal, Nyra, and Manish. He couldn't meet Arya because she was out of Mumbai due to her grandmother's death.

He also called Ahaan for a statement.

One by one, everyone came and gave their statements.

Ahaan was a suspect according to the officer because his statement was not making much sense. He said that he and Priya had fought because of his friend Tanuja. Priya was insecure about her. Jaydeep checked his call records.

At the same time, I was investigating too, and my answers and the officer's investigation were almost the same.



He called Tanuja for a statement.

She told them, "Ahaan and I are friends. Just friends. But this thing was making Priya insecure. That's why they had a fight. After I got to know this, I stepped away from the friendship. I told Ahaan to cut me off. You can check my WhatsApp chats if you think I'm lying."

She was actually telling the truth.

Even I asked her about it, and she told me everything. She even showed me the chats. Now, this was something no one was able to understand.

Kinjal told us that they were good friends and that no one had fought.

She also said that on 1st January, they had a cultural event at college, which was why Riya was tired that day.

During the statement, the officer got to know that Riya and Manish were dating too, and they hadn't told Nyra yet. They had started dating two months ago.

That's when I understood why Riya had been so distant and often out of the house—because she was going on dates with him.

Then I realized that maybe I was missing something.

When Manish went to the police station for his statement, I went to his home for my own investigation.

I got to know absolutely nothing.

But when I was about to leave his building, I met one of his friends, Om, who lived on the third floor and knew Manish.

He told me everything about them and how they had started dating.

Kartik, Manish, and Riya were all academically competitive. Kartik and Manish were not on good terms, and neither were Kartik and Riya.

Manish had secured first place instead of him, and that's where jealousy took over everything.

Meanwhile, Manish came back from the police station and called someone, saying, "I'm out of the station. We need to meet."

Nyra told everyone that she also didn't know anything.

Then, the very next day, Arya came back to Mumbai and went directly from the airport to the police station.

I was there too. As a journalist, I could listen. She was asked everything, and that's where everything started getting messed up. She told them that Riya and Manish were dating and that Nyra had no clue about it. But Kinjal told everyone everything. Nyra got mad at Riya. Also, on the very same day, Riya had broken up with Manish.



Arya said, "As for me, I was no longer friends with Riya, Manish, or Nyra because we had fights because of projects, so I wasn't talking to them. But Kinjal told me everything. I don't know why they're lying."

And that's where everything changed.

Now, Riya's side had some suspects and possible reasons, but Priya's case was still different.

There, he met Raj Sir, Sneha, Gayatri, and everyone else in the department. He asked if anyone knew anything or had noticed something unusual. That's where we got to know that Rohit, from another department, and Priya had silently been having conflicts with each other.

Priya never told me because whatever stories she covered, Rohit always tried to make it look like he had done them. He hated her because she was better than him.

The officer asked me again, "Why didn't you tell us about this?" her because she was better than him.

I said, "Even I had no idea."

The officer went to the office where Priya and I worked.

The officer asked me again, "Why didn't you tell us about this?"

I said, "Even I had no idea."

*(The scene changed back to the past)*

Ajay looked curious.

"So, did you figure out who the killer was? Or how Kartik was involved in this? Or Rohit?"

Shivani lifted her eyes and looked straight at Ajay. After a long pause, she said slowly, "I thought it was Rohit."

Ajay's pen paused.

"He had a motive. Professional jealousy. Priya was doing better than him. Every story she touched turned into a headline, and every time he tried to take credit for it. They argued often, silently. No one noticed because Priya never complained."

Vinod exchanged a quick glance with Ajay.

"But Rohit wasn't alone," Shivani continued. "That's what made the case confusing."

"Every suspect had a reason. Kartik had obsession. Ahaan had anger. Rohit had hatred." She folded her hands together.

"The difference," she said, "was opportunity."

She explained how Kartik had been seen near the building that night, how his phone location placed him close to the Sharma residence, and how a neighbour remembered a boy arguing on the staircase.



The fingerprints near the balcony railing matched his.

"He broke during interrogation," Shivani said. "Not immediately, but slowly. His stories didn't match. His anger slipped out."

Ajay nodded.

"So Rohit was cleared?"

"Yes. Rohit hated Priya professionally, but he wasn't a murderer. Kartik was arrested."

The case was closed.

There was a brief silence.

Ajay wrote the last line in his notebook and looked up. "And you were satisfied?" he asked.

Shivani smiled faintly. "No," she said. "But justice doesn't always feel satisfying."

At that moment, Rahul entered with coffee, placing one cup in front of each of them.

She adjusted her sling bag instead.

"I've told you everything," she said, standing up. "This is the complete story."

Ajay stood too.

"Thank you for trusting me with this."

She nodded, walked toward the door, and left without looking back. Ajay leaned forward.

"And who had it?"

Later That Night

Ajay sat alone in his office. The room was quiet except for the soft hum of the fan.

He reopened his notebook. He read the interview again, slowly.

That's when something bothered him.

Shivani had been certain too certain. He checked the case file once more.

Time of death: 10:30 PM to 11:00 PM.

No forced entry. Ajay whispered, "She left at ten..." His eyes dropped to another line he had written. Shivani knew where the bodies were found. That detail had never been released to the press. His chest tightened. He remembered something else now the spare key. Priya had once mentioned it casually during a late-night conversation.

"Shivani keeps one. In case she stays over." Ajay closed his eyes.

The coffee cup on his desk had gone cold, Shivani hadn't taken a single sip. Kartik didn't kill the Sharma sisters, Rohit didn't, Ahaan didn't. Then Who ??

Shivani Singh did.

She didn't just survive the crime.

She rewrote it.

Kartik was there to kill Riya that night because of his obsession with her. But before he could do anything, Shivani had already committed the murders.

Priya was a better journalist than Shivani, and that made Shivani jealous.



That day, when Priya covered up for Shivani at the press conference, she saw that Shivani had covered the story of the MLA's arrest using very sensitive and unverified statements. Those statements could have caused her to lose her job if they had been published.

Shivani had been paid by members of the MLA's party to publish those statements.

Priya didn't want that story to be published.

That's where everything got messed up.

When they went to Priya's house, Shivani asked Priya about everything. Priya said, "This is wrong, and this is not something professional." That line filled Shivani with anger. Their argument turned into something else.

Shivani took a knife and killed Priya.

Riya saw what Shivani had done, so Shivani killed her too.

Riya was never the target, but she came in between.

The doors of their house were soundproof, which was why no one outside realized what had happened. Shivani covered everything up. But when she was leaving Priya's house, she saw Kartik going there.

That's when she planned to make him look like the killer, Kartik was drunk that day. When Kartik went inside, he touched the same knife and tried to find them, but they were already dead. When he realized what had happened, he ran away. He thought he had done something.

But in reality—  
She did that.

PRAKHAR MISHRA  
FE ECE

MURDER IN THE HOUSE



# Canvas & Soul





You know

these  
fake  
stars...

Their  
pretty

Yup!

Really?

Their much  
better then  
real stars...  
Atleast they  
give you  
hope...  
False hope..

Well then  
how about  
we sit here  
and see  
them then?

Sure..?

Kashish Sonar

F.E Electrical and Computer







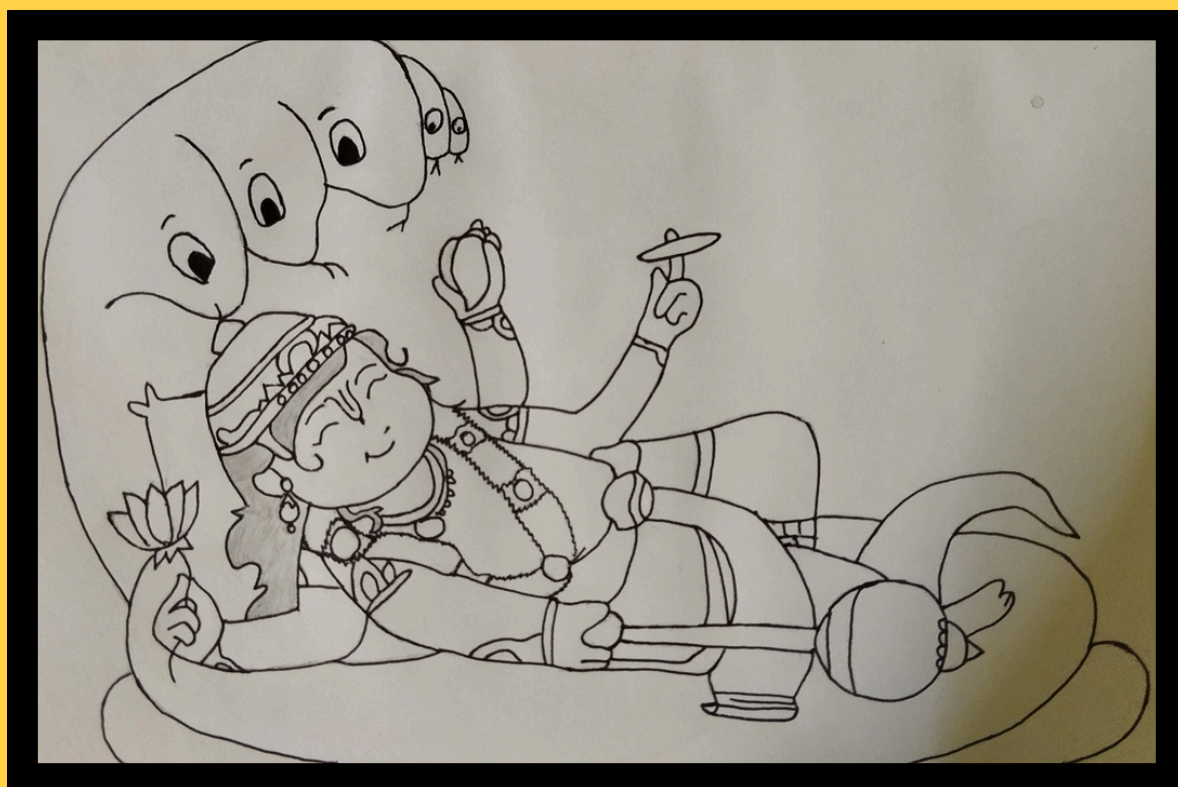
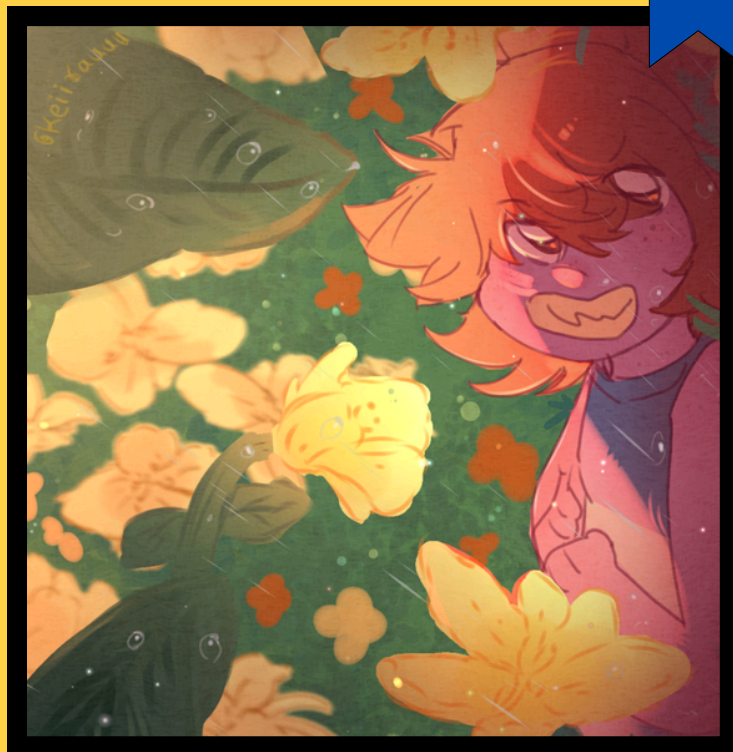


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**ADITYA ARMARE**  
**FE CSE(AIML)**





**SHRI CHHATRAPATI SHIVAJI MAHARAJ**

**ADITYA ARMARE**  
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**ADITYA ARMARE**  
**FE CSE(AIML)**

**ANUSHRI SAWANT**  
**FE ECE**





## EDITOR'S MESSAGE

It is our immense pleasure to present HORIZON, the magazine of the First Year Engineering Department, celebrating the spirit, creativity, achievements, and experiences of our vibrant student community. Warm greetings to all our readers!

- The first year of engineering marks the beginning of an exciting journey—one filled with new ideas, challenges, discoveries, friendships, and opportunities. As students take their first steps into the world of engineering, our department strives to provide an environment that encourages curiosity, innovation, learning, and personal growth.

In today's rapidly changing world, engineering education extends far beyond classrooms and textbooks. We believe in nurturing students with strong fundamentals while encouraging them to think creatively, solve problems, work collaboratively, and embrace new perspectives. With the constant support and guidance of our dedicated faculty, we aim to create a learning environment where every student feels encouraged to explore their potential.

HORIZON is a reflection of this journey. Through its articles, creative expressions, achievements, activities, and memorable moments, this magazine brings together the diverse talents and experiences of our students and faculty. It provides a platform for young minds to express themselves, share their ideas, and celebrate the milestones that make their first year truly memorable.

We sincerely hope that this edition of HORIZON captures the enthusiasm, aspirations, and spirit of our department. We extend our heartfelt appreciation to all the students, faculty members, and contributors whose efforts have brought this magazine to life.

May HORIZON inspire us to look beyond the present, dream boldly, and move confidently towards a brighter future.  
Happy reading!



# *Meet Our Team*

**Mrs. Manju Mishra (HOD)**

**Dr. Trupti Patil (Faculty Member)**

## **Student Members**

**Suyash Vishwakarma**

**Dhiraj Suthar**

**Swarupa Manve**

**Avani Parab**

**Aditya Armare**

**Pranay Wadekar**

**Mayank Dalvi**

**Prakhar Mishra**

**Amar Dhanvajir**





“The horizon is not the end,  
it’s just the beginning”

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THE ANNUAL MAGAZINE

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**DEPARTMENT OF HUMANITIES & APPLIED SCIENCES**

ACADEMIC YEAR 2025-2026

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