

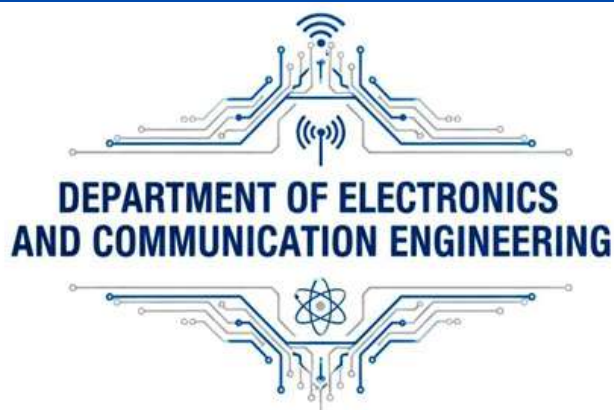


NANDHA

College of Technology

(Autonomous)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Erode, Tamil Nadu



ELCOEF- AURORA

*(The Light of Knowledge and
Creativity)*

2025-2026
(ODD SEMESTER)

VOLUME 7 -
ISSUE 1

About the Department



The Department of Electronics and Communication Engineering (ECE) at Nandha College of Technology has been one of the institution's most dynamic and innovative departments since its inception. Known for its strong academic foundation, modern laboratories, and industry-aligned curriculum, the department continuously works to mold students into skilled engineers capable of meeting global technological challenges.

Established with an aim to provide quality technical education in the field of communication systems, embedded technologies, VLSI, and signal processing, the department has consistently adapted to the rapid advancements in the electronics world. With experienced faculty, well-equipped research facilities, and a student-centric learning environment, the ECE department stands as a hub of creativity, innovation, and excellence.

Growth & Student Intake

2008 - Intake: 60 Students

The ECE department began its journey with an initial sanctioned intake of 60 students. With a strong curriculum and dedicated faculty, the department quickly gained a reputation for producing highly skilled and industry-ready graduates.

2011 - Intake Increased to 120 Students

Owing to rapid growth, strong student demand, and consistently high academic performance, the intake was doubled to 120 students in 2011. This expansion marked a significant milestone, showcasing the department's capability to nurture more young engineers while maintaining its high academic standards.

2012 - Started M.E. Communication Systems (Intake: 20 Students)

In 2012, the department expanded academically with the addition of the M.E. Communication Systems program, sanctioned with an intake of 20 students. And as now there are 6 intakes. This postgraduate program strengthened the department's focus on advanced communication technologies and provided a strong platform for research, innovation, and higher-level technical expertise.



Dr.S.Nandagopal

Principal

Nandha College of Technology

Principal's Message

Message from the Principal (Dr. S. Nandagopal)

The Magazine released by the Department of Electronics and Communication Engineering truly imbues our college's strong academic and technical spirit. The consistent 100% placement of our ECE students in top-tier MNCs is a direct result of the department's focus on high-demand, core-industry skills.

I assure this commemorative issue is an effort to carve out future-ready engineers. Nandha College of Technology rests on a strong academic foundation, blended with a modern, practical approach. We seek to mould young men and women into successful role models who are experts in fields like VLSI design, 5G communication, Embedded Systems, and IoT.

At Nandha College of Technology, we believe that only knowledge paired with practical application can give you wings. As you step into the portals of this College, you are engulfed by our ethos of innovation, discipline, and technical competence. We warmly welcome aspiring engineers to come and join us to explore and experience the joy of building the next generation of technology.

"ECE at Nandha College of Technology stands for strong academics, technical excellence, and 100% placement success."

"We are committed to shaping future-ready engineers skilled in VLSI, 5G, Embedded Systems, and IoT."

"Knowledge with practical application is the power that drives innovation—and we welcome every aspiring engineer to grow with us."



Dr. R Jayanthi

Head of the Department

Nandha College of Technology

HOD's Message

Message from the HOD, ECE (Dr. R. Jayanthi)

Welcome to the official edition of ELCOEF-Aurora! As the Head of the Department, I proudly affirm that our faculty members and students remain committed to delivering excellence and contributing to society through impactful technological innovations.

Our mission is to lead advancements in wireless communication, semiconductor technology, and intelligent electronic systems that enhance everyday life. We are always open to valuable suggestions that help strengthen our capabilities, especially in emerging domains such as AI/ML-driven signal processing and RF engineering.

We take immense pride in the achievements of our students—from publishing quality research to develop sophisticated projects in robotics, embedded systems, and beyond. This event has been thoughtfully organized to highlight their technical brilliance, and we are delighted to present the collective effort that has made it a remarkable success.

“As the Head of ECE, I proudly uphold our mission to drive innovation in wireless communication, semiconductor design, and smart electronics. We welcome suggestions to grow in emerging fields like AI/ML and RF engineering.

Our students continue to inspire us with their research, projects, and technical excellence showcased in ELCOEF-Aurora”

CHIEF PATRON

Dr.S.Arumugam,
CEO,Nandha Educational Institutions

PATRON

Dr.S.Nandagopal
Principal

CONVENER

Dr.R.Jayanthi
HoD/ECE

CHIEF EDITOR

Mrs.S.Amsaveni
AP/ECE

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Mr.M.Srihari /II BE-ECE
Mr.S.Dhanush /II BE-ECE

DEPARTMENT OF ECE



VISION

To be a centre of excellence in the field of Electronics & Communication Engineering with Global standards of Academic and Research for the need of Society and Industry.

MISSION

To provide value based Communication Technology education and produce innovative, competent and high quality Electronics & Communication professionals for the growing demand of Society and Industry. To facilitate the students for the constant up gradation of Technical expertise and perform research activities to solve the real world problems.

PROGRAM SPECIFIC OUTCOMES

PSO1: Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles

PSO2: Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetic.

PSO3: Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems



PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)



PEO1: To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.

PEO2: To gain adequate knowledge to become good professional in electronic and communication engineering associated industries, higher education and research.

PEO3: To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.

PEO4: To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

PEO5: To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

PROGRAMME OUTCOMES (POs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6.The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10.Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12.Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



SPORTS ACHIEVEMENTS



YOGESHWARAN S

Our proud athlete S. Yogeshwaran (III Year ECE) won Silver in the 110m Hurdles at the CM Trophy 2025. The competition took place at VOC Stadium, Erode, on 9th September 2025. He competed under the College Men's Category and received a ₹2000 prize.

Our talented athlete S. Yogeshwaran (III Year ECE) earned Silver in the Long Jump at the CM Trophy 2025. The competition was held on 9th September 2025 at VOC Stadium, Erode. He competed under the College Men's Category and received a ₹2000 prize.





Hearty congratulations to S. Yogeshwaran, III Year ECE, for his outstanding performance in sports. He won Silver medals in both 110m Hurdles and Long Jump at the CM Trophy 2025. We are proud of your success and wish you many more achievements ahead!

S. Yogeshwaran Shines in Athletics!
S. Yogeshwaran showcased his exceptional talent at the Anna University Zonal Level Sports Meet (Athletics) 2025 held at Kongu Engineering College, Perundurai. Competing in the Triple Jump event, he secured an impressive 2nd place. With this outstanding performance, he has been selected to represent the university at the Interzone Meet, which will be held at Kongu Nadu College.



“Talent, dedication, and perseverance leap beyond limits – S. Yogeshwaran proves that every jump counts!”

Deenathayalan V

Congratulations to Deenathayalan V from 2nd year ECE for winning the Gold Medal in the State Level Silambam Tournament.

His dedication and discipline have brought great pride to our department and college. We applaud his outstanding performance at Vriksha Global School, Sankagiri on 31.08.2025.



Hearty congratulations to Deenathayalan V for his remarkable achievement in winning the Gold Medal at the State Level Silambam Tournament.

Your hard work and success bring immense pride and inspiration to our college.

Haripranesh AG



Congratulations to second-year ECE student A.G. Hariprenesh for his excellent performance at the CM Trophy cricket tournament (College Men category). His dedication resulted in a well-deserved Bronze Medal and a prize of ₹1000 from the event hosted by Nandha Engineering College and Erode Senguthar Engineering College on 28.08.25.

ACHIEVED



BRONZE MEDAL



1000 RS

"Champions are made in the Nets long before they shine on the field"



AG.HARIPRENESH, a 2nd-year ECE student, won the Silver Medal in cricket at the Anna University Zone Tournament. This achievement highlights his excellent performance and dedication to achieve

ACHIEVED



SILVER MEDAL



WON TROPHY

PORTRAIT

Arts & Crafts



Dhanush S

A stunning pencil sketches by Dhanush S (II Year ECE), capturing intense expressions and fine detailing that reflect focus, emotion, and artistic skill.



This is a striking black and white sketch of a woman's face. The artist uses hatching and cross-hatching to create dramatic shading and texture. Her pose is intense, with her fingers touching her temples, giving a focused look.

The artwork, signed "Art by Dhanush," is very dynamic and highly detailed.



Every stroke of
art is a piece of
the soul





Sri Hari M

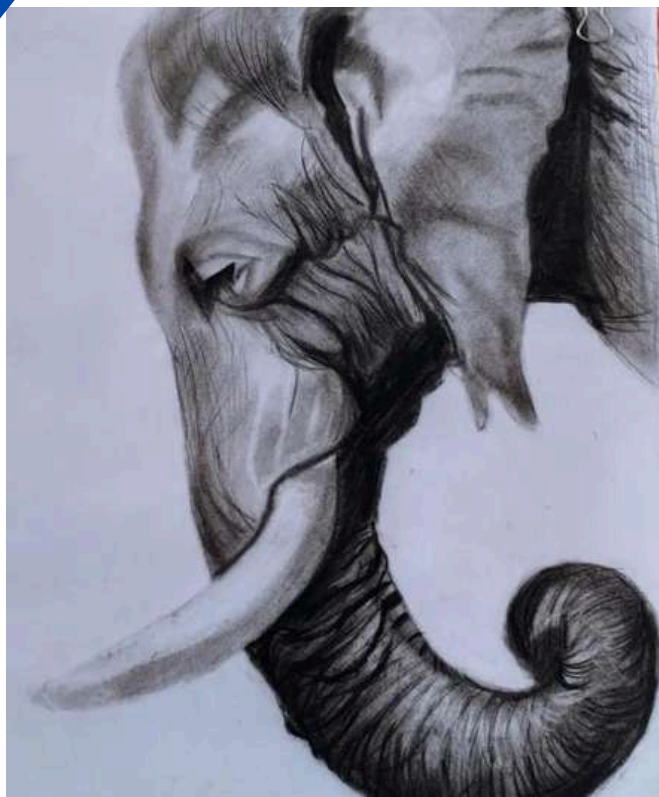
A stunning pencil sketches by Sri hari.M (II Year ECE), capturing intense expressions and fine detailing that reflect focus, emotion, and artistic skill.



This is a monochromatic pencil sketch of two children—a boy and a girl—in a close, affectionate pose, a lovely piece of art that Sri Hari M may appreciate. The detailed portrait, where both siblings wear glasses, is mounted in a decorative frame and signed by the artist.



Art turns moments
into eternity





Keerthika.N from ECE IV

“Every Craft begins with an
Idea and ends with a Magic”



PhotoGraphy



Gunaseelan S

from ECE III

“Photography is the art of freezing emotions in a single Frame”



POETRY

11:11♥!!!

அலைபேசித் திரையினில்
உன் முகமே - தினம்
அருகில் இல்லையே என்ற
ஏக்கமே!
மைல்கள் நூறு நமைக் கட்டிப்
போடலாம் - உன்
குரலைக் கேட்டிட நான்
வாழலாம்!
காலை வணக்கமும், இரவு
முத்தமும்,
திரையின் வழியே நம்
உலகமும்.
காணொலிக் கரையில் நீ
சிரித்திட,
கவலைகள் யாவும் மறந்தே
திளைத்திட!
தூரம் தடையல்ல நம் தூய
அன்பிற்கு,
சேரும் நாள் வரை காத்திரு
என் சொல்லிற்கு!
நினைவில் வாழ்ந்திங்கு நான்
காத்திருப்பேன்,
விரைவில் சேர்ந்திட வழி
பார்த்திருப்பேன்!

written by
Iniyan.PK
from III ECE



காலை ஒளியில் கிளம்பும் எண்ணம்,
கல்லூரி பாதை இன்னும் அழைக்கிறது.
தினமும் போவேன் என மனம் நினைத்தும்,
சில நாட்களில் லீவாகி விடுகிறது.

ட்யூட்டருக்கு அழைத்து சொல்லும் வழக்கம்,
ப்ரொக்டருக்கும் செய்தி அனுப்பும் பழக்கம்.
சின்ன காரியமென்று தோன்றினாலும்,
அதில் நினைவுகள் நெஞ்சில் நிறைகிறது.

இனி நாளை எப்படி இருக்கும் தெரியாது,
ஆனால் இதயத்தில் இந்நாள்கள்
நிலைத்திருக்கும்.
கடைசி ஆண்டு எனினும் இதுவே அழகு,
முடிவல்ல இது – ஒரு புதிய தொடக்கம்!

written by
Pavithra.A
from IV ECE



நாம் மூவர் கூடினால் சிரிப்பு மலரும்,
நேரம் நின்று நம்மை பார்த்து நகையும்.
ஒவ்வோர் வாரமும் சுற்றுலா கனவு,
ஆனால் அது நிஜமாவதே அரிது கனவு.

சின்ன தகராறும் நொடியில் மறையும்,
நெஞ்சில் நம்மை பிரிப்பது ஒருபோதும்
வராது.
பாசமாய் பார்வை மாறி வந்தால்,
புதிய நாளும் பழைய நினைவும் கலக்கும்.

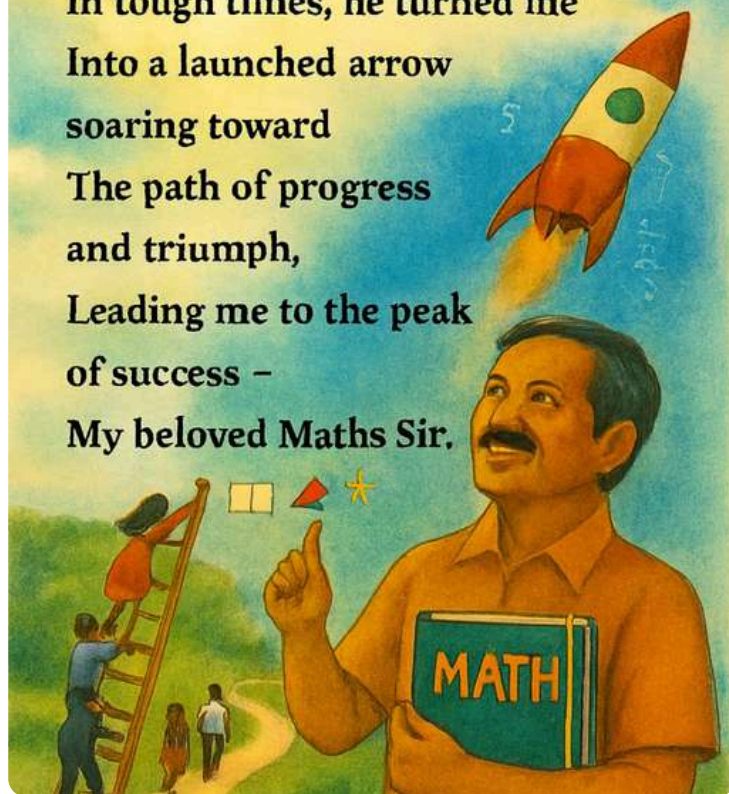
காலம் போனாலும் நட்பு மாறாது,
நம் மூன்று தோழிகள் - மனத்தின் முத்தாக நிலைக்கும்.



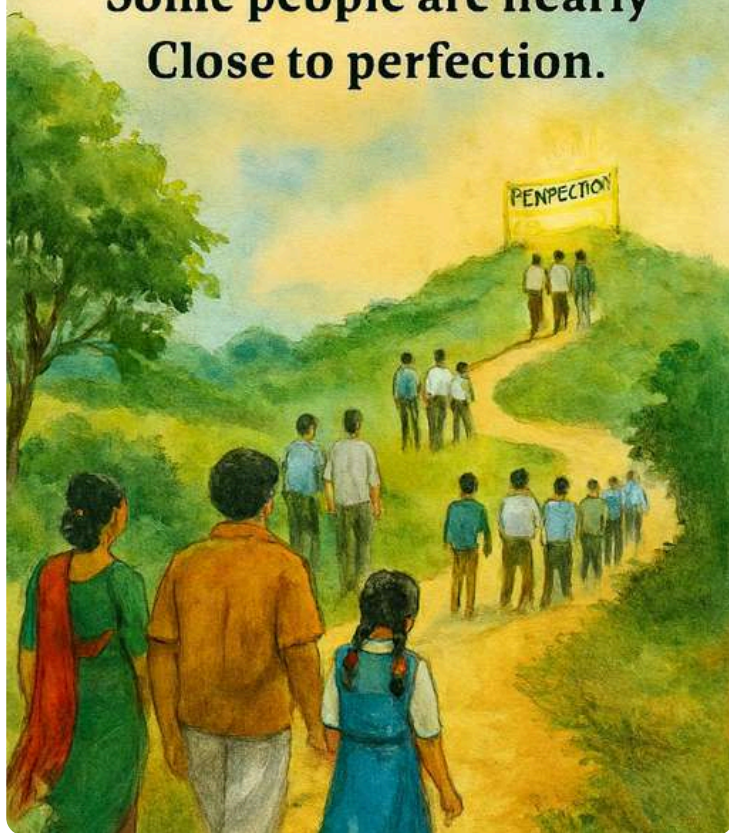
written by
Rajasri.P
from IV ECE



In the vast sky called Mathematics,
Students climb with ladders
of learning,
In tough times, he turned me
Into a launched arrow
soaring toward
The path of progress
and triumph,
Leading me to the peak
of success –
My beloved Maths Sir.



No one can be perfect
in the world, but
Some people are nearly
Close to perfection.



written by
Siranjeevi.A
from IV ECE



EVENTS & PROGRAMS

Technical Symposium - Techspurts



The Department of Electronics and Communication Engineering at Nandha College of Technology proudly organized TECHSPURTS 2025, a grand inter-collegiate technical symposium that celebrated creativity, technology, and innovation.

TECHSPURTS featured a wide range of technical and non-technical events, including paper presentations, project expos, quiz contests, idea pitching, and many more fun-filled activities. Each event was designed to inspire learning, teamwork, and competitive spirit among participants.



The symposium provided a perfect platform for young technocrats to exchange ideas, explore emerging technologies, and network with like-minded peers. The energy and enthusiasm of participants made TECHSPURTS a memorable and impactful event, reflecting the spirit of innovation and excellence that defines Nandha College of Technology.

TECHNICAL & NON TECHNICAL EVENTS

- Slide Desk
- Workshop
- Innovation ignition
- Mind Spark
- Mingle Bingo
- Time Crunch
- IPL Auction
- Prompt Text
- Crack The Music
- Field of Battles



Innovation Ignition was a platform for budding innovators to showcase their creative and technical skills through real-time projects. Participants presented groundbreaking ideas and working models that aimed to solve real-world problems with modern technology. The event encouraged innovation, teamwork, and research-oriented thinking among students.

Slide Desk provided an opportunity for students to present their research papers on emerging technologies and futuristic trends. Participants demonstrated their communication, presentation, and analytical skills while sharing innovative insights. The event promoted technical literacy and gave students a stage to express their ideas before an expert panel and peers.





Mind Spark tested the participants' technical knowledge, logical reasoning, and quick-thinking abilities. The quiz covered a wide range of topics from core engineering concepts to current advancements in science and technology. With intense rounds and exciting competition, Mind Spark truly sparked curiosity and enthusiasm among all attendees.



The Workshop on Design and thinking session offered students practical exposure to emerging tools and technologies through expert-led training. It helped participants bridge the gap between theoretical knowledge and industrial application. Interactive sessions and real-time demonstrations made the workshop both informative and engaging, equipping students with valuable technical skills.

Held on 24/10/2025
on Nandha College of Technology
Tech Campus
Organized by Department of Electronics and
Communication Engineering

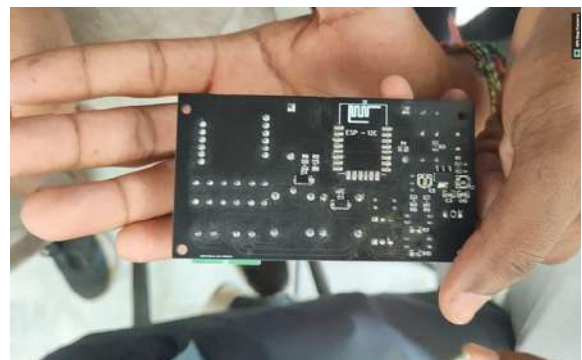


INDUSTRIAL VISIT AND SEMINARS



The students of Electronics and Communication Engineering, Nandha College of Technology, had the opportunity to visit Keltron (Kerala State Electronics Development Corporation Limited), Trivandrum, as part of their industrial exposure program. The visit provided an insightful experience into the world of advanced electronics manufacturing and system integration.

During the visit, students explored various departments of Keltron, including Electronics Production, Research & Development, Testing, and Quality Control units. The professionals at Keltron explained the end-to-end process of designing and developing electronic products ranging from defense equipment and automation systems to consumer and industrial electronics.



The Department of Electronics and Communication Engineering of Nandha College of Technology organized an Industrial Seminar on IoT and Embedded Systems.

Experts from the industry shared insights on the latest trends in IoT, microcontrollers, and smart automation.

Students gained practical knowledge about real-time applications and emerging technologies in connected systems.

The session enriched their technical skills and inspired innovation in the field of electronics and communication.

SHORT STORIES

THE CHARACTER NO ONE KNOWS

—————→ A Journey From Silence to Friendship

In every classroom, there's always one quiet corner — a seat where a shy boy sits alone, unseen, unheard, unnoticed.

Our hero was that boy.

He entered college silently... and left the same way.

Most didn't even know his name.

Back in school, he only had one close friend — Styno.

He believed college would be colourful and full of friendships... but the first week shattered that dream.

No friends.

No connection.

Only disappointment.

> “Life surprises you when you least expect it.”

THE FIRST RAY OF LIGHT

One day, he met a student.

A simple conversation gave him hope — maybe this would be his “forever friend.”

But life had bigger plans...

Not one friend.

A whole group.

Within a month, something beautiful happened —

He became part of a funny, lively, lovable circle of friends.

Not a gang...

Just pure friendship.

He even had a funny habit:

Whenever he admired someone, he copied their best qualities — what he called his “cheap copying technique.” 😊

THE CHARACTERS WHO SHAPED HIM

The Disciplined One 🌸

Calm. Respected. Consistent.

He called the hero daily and studied with him for years.

From him, the boy copied discipline & dignity.

> “Let your routine speak louder than your words.”

The Same Vibed Friend

Just like him – quiet at first, chaos later.
With him, the hero was the happiest.
No copying needed – they were mirrors of each other.

The Caring Comedian

One look = instant laughter.
Caring, funny, full of energy.
He copied his smile & positivity (but not the oversharing).

The Class Entertainer

Not naturally funny... yet made everyone laugh.
From him, the hero copied the joy of making others happy.

The Leader

Famous, kind, ego-less, friendly to all.
From him, the hero copied confidence & how to talk to people skills.
and how to make everyone as friends

The Teacher-Friend

The heart of the group.
A mentor in disguise – sometimes like a monk, sometimes like a drunk philosopher
😊
From him, he copied wisdom, dedication & creativity.

The Technical Genius

Funny, energetic, and a beast when it came to electronics.
From him, the hero copied passion & curiosity.

And now... the hero talks to everyone.
Many people shape him.
Many characters define him.
And beyond the original seven, he has found countless more friends.

✿ A NEW BEGINNING

Now in 3rd year –
He laughs more, speaks more, lives more.
It feels like a fresh chapter...
A brighter version of himself.

THE FINAL LESSON

The boy who once walked alone now walks with many pillars beside him.

He entered college with no confidence...
And today, he carries the strength, smiles, and lessons of every friend he met.

> “You don’t grow alone.
You grow with the people who enter your life.”

A boy who once whispered now speaks.
A boy who once sat alone now laughs loudly.
A boy who had no friends...
now has a family. ❤️

And sometimes...
copying the right characters helps you
discover your own ✨

written by
Sanjai krishna K
from III-ECE



PLACEMENTS

ACHIEVEMENTS

	JAYARAMJI J 2023-2026 BATCH got placed in ARRAA ENERGY (3LPA) package
	MEHASDHANISH T 2023-2026 BATCH got placed in ARRAA ENERGY (3LPA) package
	NATHISH 2023-2026 BATCH got placed in ARRAA ENERGY (3LPA) package
	VISHAL D 2023-2026 BATCH got placed in ARRAA ENERGY (3LPA) package
	RAVI KUMAR B 2023-2026 BATCH got placed in ARRAA ENERGY (3LPA) package
	ABINITH KS 2023-2026 BATCH got placed in ARRAA ENERGY (3LPA) package
	PAVITHRA.A 2023-2026 BATCH got placed in KGIS (3LPA) package

QUIZ CORNER

1. The modulation technique most resistant to noise is –

- A) AM
- B) FM
- C) ASK
- D) PSK

➡ Answer: B

2. In a microprocessor, the control unit –

- A) Performs arithmetic operations
- B) Controls the flow of data and instructions
- C) Stores data temporarily
- D) Converts analog signals to digital

➡ Answer: B

3. In optical fiber communication, the signal loss due to scattering is mainly because of –

- A) Rayleigh scattering
- B) Fresnel reflection
- C) Chromatic dispersion
- D) Polarization mode dispersion

➡ Answer: A

4. The phenomenon of “aliasing” occurs when –

- A) Sampling frequency is less than twice the signal frequency
- B) Signal amplitude is too high
- C) Quantization levels are increased
- D) Noise is present in the system

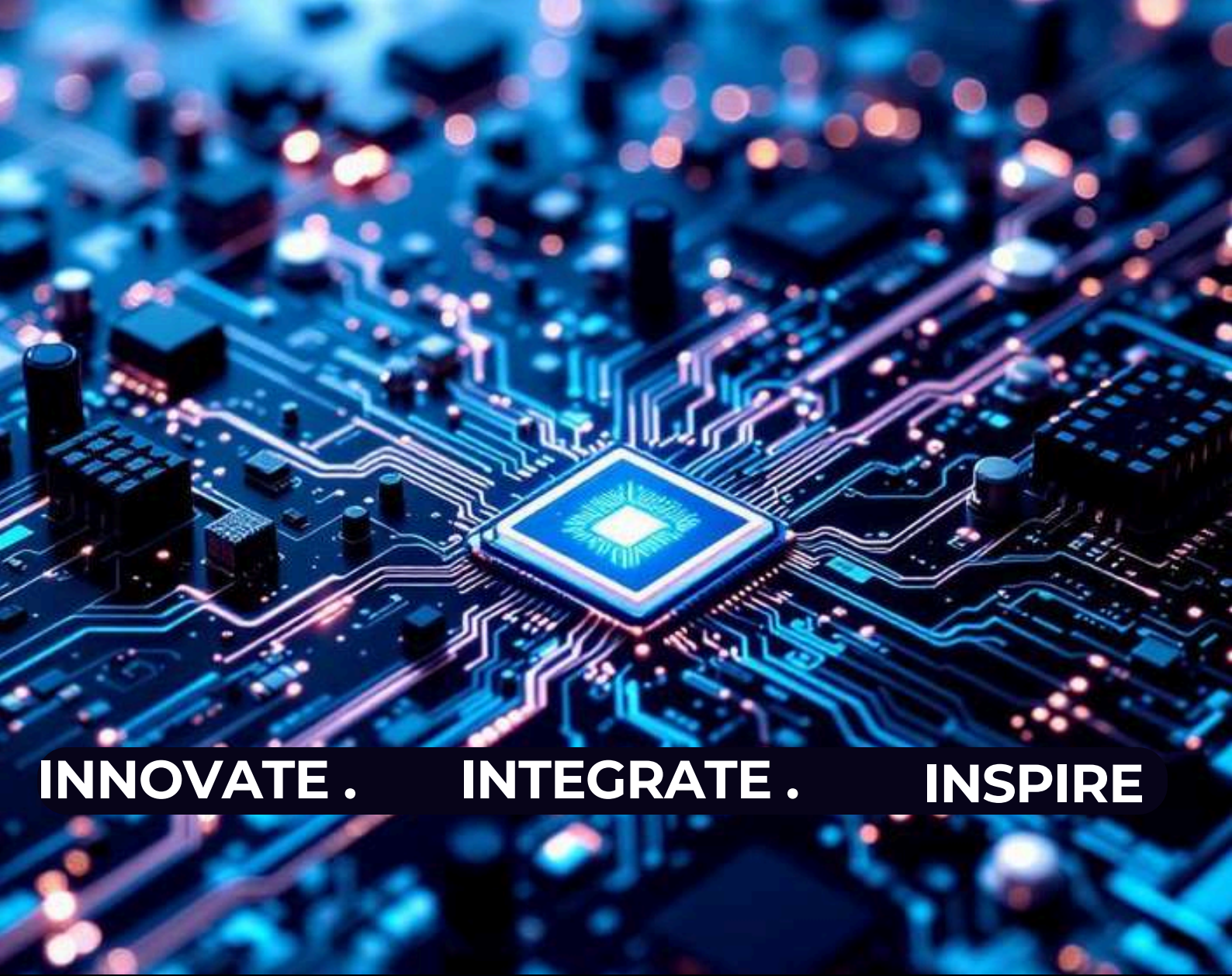
➡ Answer: A

5. In a communication system, the purpose of the demodulator is –

- A) To amplify the signal
- B) To extract the original message signal
- C) To mix two signals
- D) To suppress noise

➡ Answer: B

BY
SANJAI
KRISHNA K



INNOVATE . INTEGRATE . INSPIRE

The Editorial commitee

Magazine created by

Sanjai krishna K
Kiruthivarma S

