



MAR BASELIOS  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
AUTONOMOUS

# THE H U D D L E

## MAGAZINE

### 2025-26

IN EVERY CORNER OF OUR CAMPUS LIVES A DIFFERENT VOICE, A DIFFERENT JOURNEY. STORIES OF LOVE AND LOSS, HOPE AND DESPAIR, DREAMS AND DETERMINATION — EACH SHAPED BY UNIQUE EXPERIENCES AND EMOTIONS.

THOUGH WE WALK DIFFERENT PATHS, OUR THOUGHTS, STRUGGLES, AND TRIUMPHS FIND A COMMON GROUND HERE. THE HUDDLE BECOMES THAT SHARED SPACE WHERE INDIVIDUAL VOICES UNITE, WEAVING TOGETHER MANY PERSPECTIVES INTO ONE POWERFUL STORY OF HUMANITY, CREATIVITY, AND CONNECTION.

DIFFERENT INDIVIDUALS  
DIFFERENT STORIES  
ONE STORY  
ONE SPACE



MOTTO  
DUC IN ALTUM

LEADING TO HEIGHTS OF EXCELLENCE

COLLEGE ANTHEM

CAN'T YOU HEAR THE THUNDER OF BETHANY HILLS,  
WHERE THE SHADOWS FLEE IN THE SHINING LIGHT  
WITH THE SWORD OF TRUTH AND THE SHIELD OF FAITH,  
WE RISE IN KNOWLEDGE, WISDOM, AND GRACE.  
WE WILL CHANGE THE WAY WE SEE THE WORLD,  
OUR DESTINY IS WRITTEN BY THE AUTHOR OF LIFE  
AND THANK THE LORD OF HEAVEN AND EARTH,  
OUR STRENGTH, OUR HOPE OUR DELIVERER BASELIOS!  
WE ARE MANY, WE ARE ONE HEART BASELIOS!  
WE LIVE IN HONOR AND PASSION,  
BASELIOS! BASELIOS!



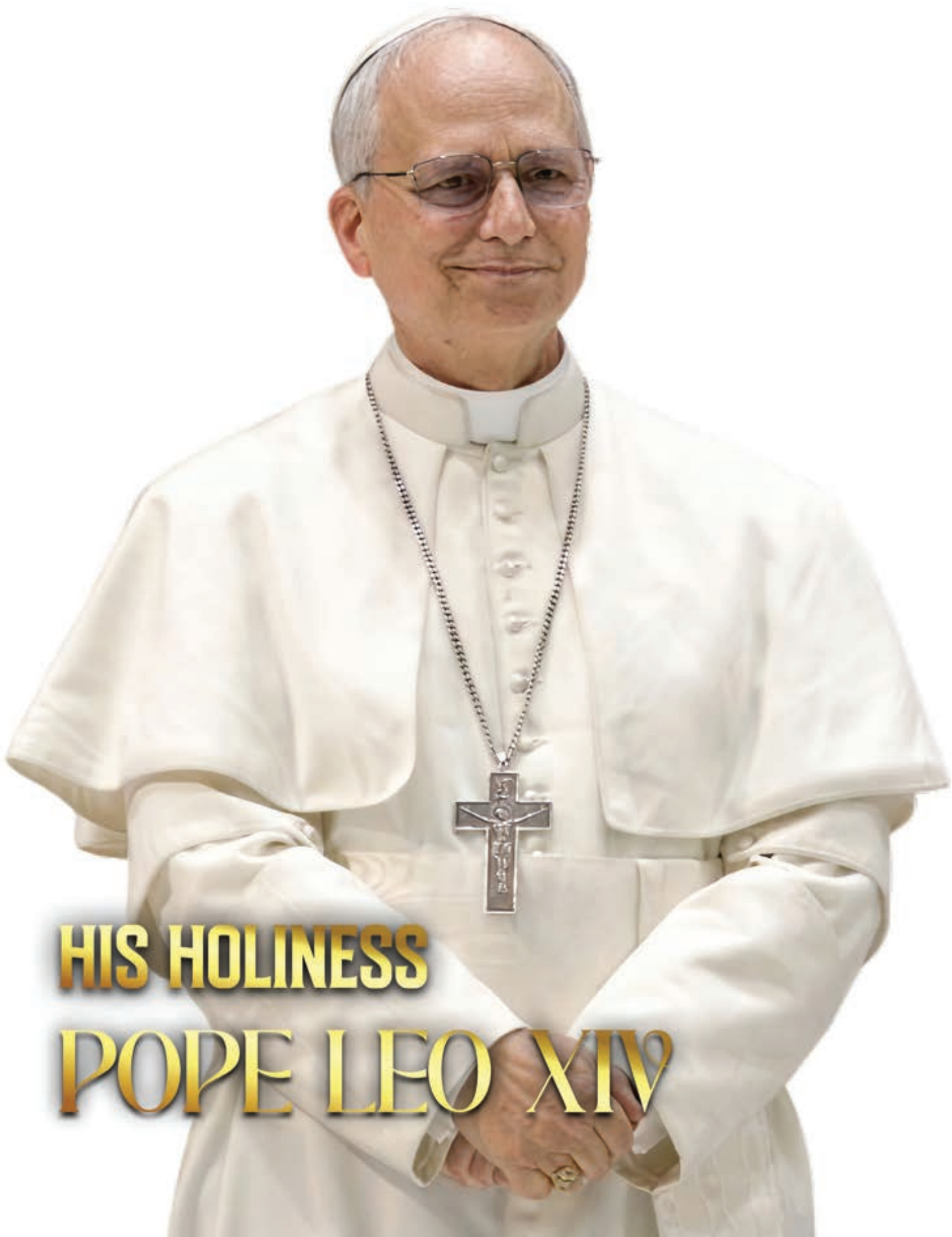
# VISION

TO BE AN INSTITUTION MOULDING  
GLOBALLY COMPETENT PROFESSIONALS  
AS EPITOMES OF NOBLE VALUES



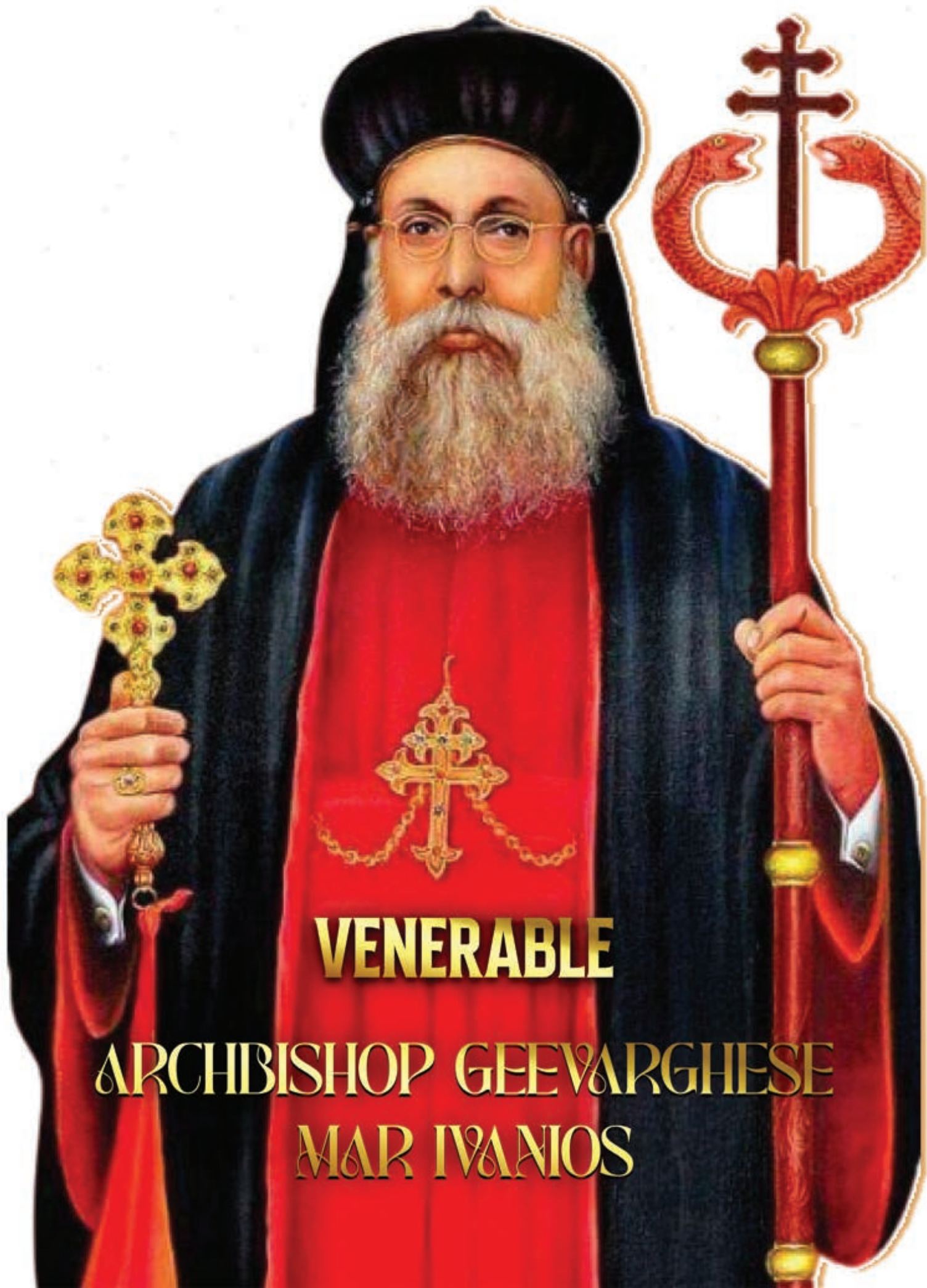
# MISSION

TO TRANSFORM THE YOUTH AS TECHNICALLY  
COMPETENT, ETHICALLY SOUND AND SOCIALLY  
COMMITTED PROFESSIONALS, BY PROVIDING A  
VIBRANT LEARNING AMBIENCE, FOR THE  
WELFARE OF HUMANITY



**HIS HOLINESS**

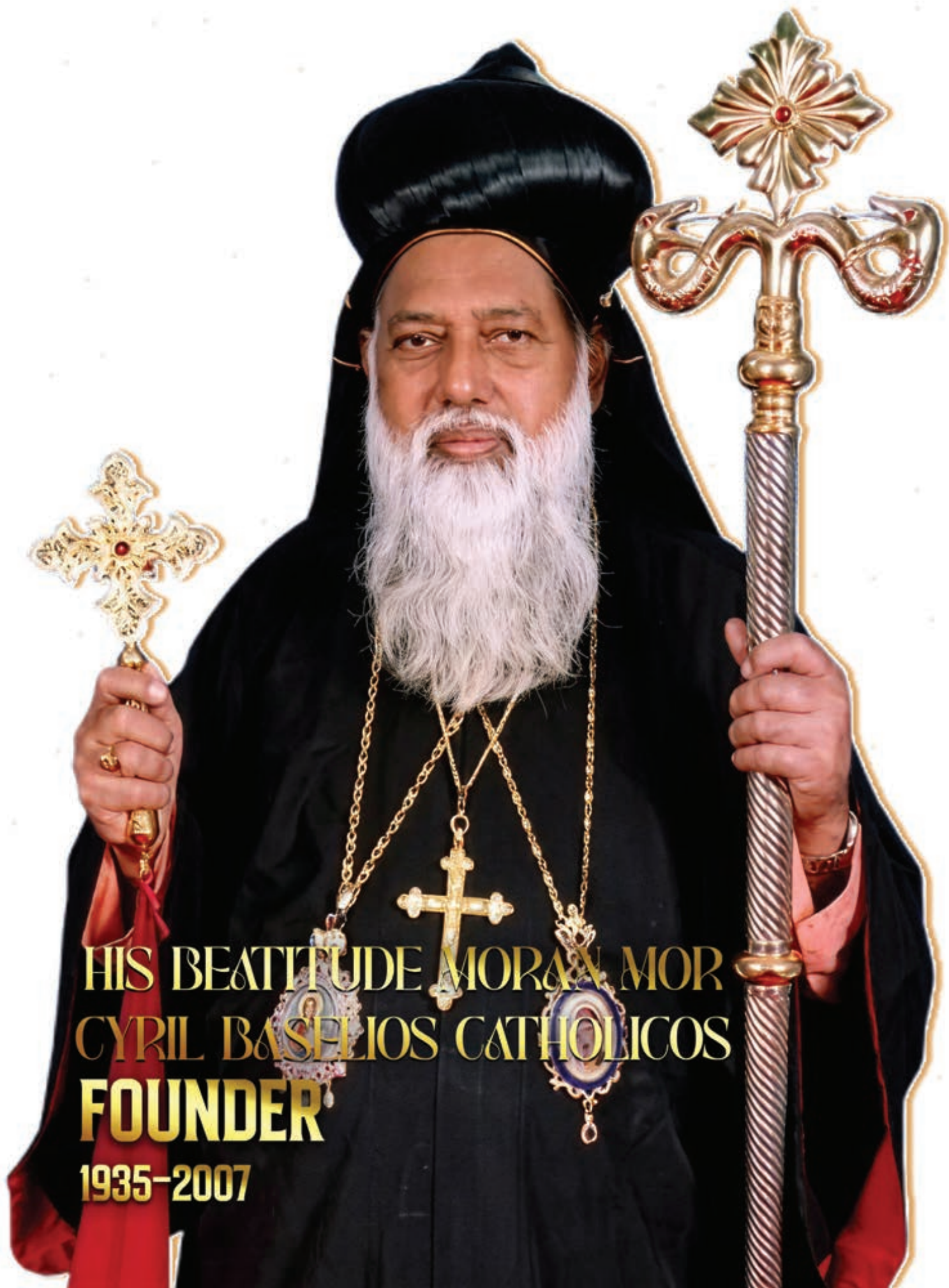
**POPE LEO XIV**



**VENERABLE**

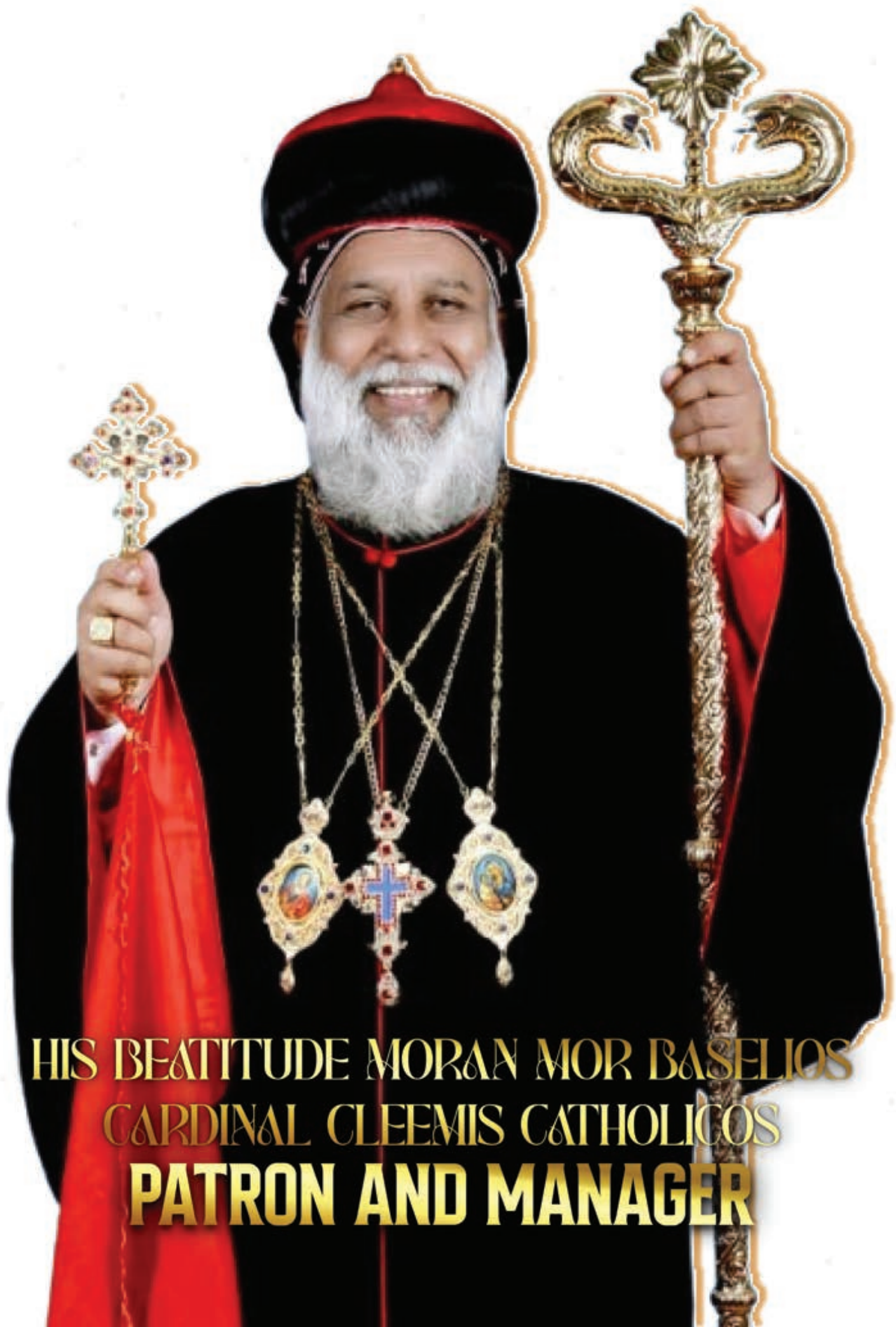
**ARCHBISHOP GEEVARGHESE**

**MAR IVANIOS**



HIS BEATITUDE MORAN MOR  
CYRIL BASELIOS CATHOLICOS  
**FOUNDER**

1935-2007



**HIS BEATITUDE MORAN MOR BASELIOS  
CARDINAL CLEEMIS CATHOLICOS  
PATRON AND MANAGER**

# Message from **Director**

---

It gives me great pleasure to extend my warm greetings to the Editorial team and leaders of "The Huddle", our college magazine. This magazine is not merely a collection of articles and achievements but it is a vibrant reflections of the creativity, talent, innovation and spirit of our students.

I take this opportunity to wholeheartedly appreciate the commendable performance of our students in both academic and non academic arenas. Your achievements are a testament to hard work, team work, creativity and discipline. Each success story inspires the entire college community and strengthens our confidence in the bright future that lies ahead for all of you.

I also extend my sincere gratitude to the Bursar, Principal, Faculty members, Staff and parents whose guidance and support have played a vital role in shaping your journey. It's my pride to congratulate the Editorial board of the Huddle for providing wonderful platform that encourages expression, creativity and collaboration among students. Your efforts in bringing together ideas, experiences and achievements in to this publication are truly appreciable.

As we move forward, I encourage every Student to continue pursuing excellence with determination, integrity and compassion. May you keep exploring new opportunities, overcoming challenges and contributing positively to the society.

I wish you continued success in all your future endeavors.

With best wishes



REV. FR. JOHN VARGHESE  
PALANILKUNNATHIL

Director

# Message from **Bursar**

---

It is a moment of immense pride as we unveil this latest edition of our college magazine—THE HUDDLE- a curated gallery of the intellect, creativity, and visionary thinking that thrives within our halls. Congratulations to all the students who have contributed their articles, artwork, and technical insights. You have not only shared your talent but have also demonstrated the courage to put your ideas into the world. As you look through these pages and reflect on your journey here, I want to leave you with a few thoughts for the road ahead.

While technical expertise is the foundation of your degree, the true "engineering" happens within your character.

In an era increasingly dominated by algorithms and automation, the most indispensable skill you possess is your humanity. No bridge, software, or circuit can replace the power of a genuine human relationship.

I urge you to prioritize interpersonal excellence alongside technical brilliance. Your ability to listen with empathy, to collaborate across differences, and to build trust is what will truly turn a group of individuals into a high-performing team. In the professional world, people may forget the specifics of a project, but they will never forget how you treated them. Seek to build networks not just for "utility," but for community. Your success will be measured not just by the problems you solve, but by the lives you touch and the bridges you build between hearts.

You are part of an institution that does more than grant degrees; it shapes destinies. The rigorous academic environment, the collaborative spirit of our technical fests, and the ethical grounding you receive here are the tools that will distinguish you in a competitive global landscape.

Be proud of this institution. MBCET is the soil in which your ambitions have taken root. As you transition from students to alumni, carry the name of our college with honor, knowing that your foundation is solid and your potential is limitless.

The world needs engineers who are not just skilled, but empathetic and resilient. Use the logic you've learned in the classroom and the creativity you've shown in this magazine to solve the challenges of tomorrow.

Continue to strive, continue to create, and above all, remain a student of life.

I wish you all the best for your bright future.



Rev. Dr. Koshy Issac Punnamoottil  
Bursar

# From the Editor's Desk

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**“Coming together is a beginning; keeping together is progress; working together is success.” — Henry Ford**

A huddle is more than a gathering—it is where individuals become one, where voices unite, ideas spark, and purpose finds direction. THE HUDDLE is not just a magazine; it is a reflection of our collective spirit, shaped by the creativity, passion, and energy of our college.

Within these pages lie stories that echo who we are—moments of resilience, bursts of imagination, silent struggles, loud victories, and dreams that continue to grow. Every piece you read is a voice that chose to be heard, a perspective that adds depth to our shared identity, and a reminder that each of us has something meaningful to contribute.

This magazine stands as a testament to collaboration—where diverse thoughts come together to form something larger than ourselves. It is in this coming together that we find strength, inspiration, and a sense of belonging. As you turn each page, we hope you feel not just the creativity, but the connection—because THE HUDDLE is not just a collection of content, it is a shared experience, a collective memory, and a celebration of us.



Aromal HR  
Student Convenor

Sidharth Sumitra Gireesh  
Student Editor



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# THE VAN - GUARD



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ASSISTANT DEAN (ALUMNI  
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PROFESSOR & HOD CSE



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ASSOCIATE PROFESSOR  
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ASSOCIATE PROFESSOR  
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OFFICER



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PROFESSOR & HEAD,  
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LIFELONG LEARNING



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NODAL OFFICER  
CATALYST IEDC MBCET



**DR. SHOBA TERESA GEORGE**  
STUDENT COUNSELOR AND  
CONSULTANT  
PSYCHOTHERAPIST.

# MBCET SENATE



SENATE



**DR ANIL J**  
STAFF COORDINATOR



**SABITHA S NAIR**  
STAFF COORDINATOR



**AAROMAL SANTHOSH S**  
CHAIRMAN



**GOWRI SANTHOSH**  
VICE-CHAIRPERSON



**HEMAND J S**  
GENERAL SECRETARY



**HARRY BIJU**  
ARTS SECRETARY



**SHONE C ACHANKUNJU**  
SPORTS SECRETARY



**ABIN S MANOJ**  
MEDIA SECRETARY



**SIDHARTH S G**  
MAGAZINE EDITOR



**ARJUN S M**  
UUC





**CHRIS T R**  
UUC



**ALIF S S**  
EL REPRESENTATIVE



**VISMAYA D N**  
CE REPRESENTATIVE



**AHSAN SANJU BUKHARY**  
CS REPRESENTATIVE



**ABIN SHIBU**  
EE REPRESENTATIVE



**AISHWARYA BALAKRISHNAN  
MENON**  
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**NAYAN SANKAR**  
ME REPRESENTATIVE



**GANGA B NAIR**  
CT REPRESENTATIVE



**VEDHA MAHADEVAN**  
WOMEN  
REPRESENTATIVE



**LAYA MARIAM MATHEW**  
WOMEN  
REPRESENTATIVE



**DEVIKA B R**  
WOMEN  
REPRESENTATIVE



**RAHUL RAJAN**  
PG REPRESENTATIVE



**AISHWARYA GIRISH NAIR**  
PG REPRESENTATIVE



**S SIBI**  
PG REPRESENTATIVE

# ANNUAL REPORT 2025-26



**DR. S. VISWANATHA RAO**  
PRINCIPAL



# INTRODUCTION

Education is a fundamental right that helps people develop their potential and improve their social, economic, and cultural status. It is a vital part of any society's growth and development that requires inclusive, equitable quality education, and lifelong opportunities for all. Engineering education integrated with human values creates responsible professionals who prioritize human welfare, environmental safety, and ethical decision making over pure technical output. It bridges technical expertise with societal needs, fostering empathy, integrity, and sustainable innovation to solve complex global challenges while ensuring responsible conduct. As an Institution of high reputed, Mar Baselios College of Engineering and Technology strives to impart holistic education keeping in line with its Vision, with the objective of achieving the integral development of human personality, uncompromising on values so as to ensure the possibility of living a life with its full glory. It endeavours to be truthful to its motto "DUC IN ALTUM", inspiring every one of us to dive deep and bring out the excellence. Mar Baselios College of Engineering and Technology is celebrating the successful completion of 24 years of relentless service in the higher technical education arena since its establishment in 2002. Students of the third B.Tech batch and the fifth M.Tech batch under autonomy will be graduating this year. The year 2025-26 has been an year of vibrant activities in all domains including academic, co-curricular and the extra - curricular. A glimpse of our activities and achievements during the period is presented in this report.



## ADMISSION 2025

The admissions to the 24th batch of the College, which is the sixth batch under autonomy, was completed in October 2025. 615 students were admitted in the B.Tech programmes. 30 students joined the M.Tech programmes and 2 scholars, for the Ph.D Programme.



## Student Induction Programme for UG

The AICTE mandated Student Induction programme (SIP) was conducted for two weeks with the Welcome Ceremony for freshers, namely PARODOS 2025 on 18th August. The invited talks, personality grooming sessions, bridge courses, lessons on universal human values, department level orientation, introduction to professional bodies, etc. were part of the SIP.

## Academics

Students belonging to the 2021-25 batch of the B.Tech, completed the contact requirements in April 2025 and those of the M.Tech Degree Programme in May 2025. The Course Completion ceremony Exodos was conducted on 08 July 2025. 423 B.Tech Students and 23 M.Tech students successfully completed their coursework.

There are 2188 students currently enrolled in the various courses during 2025-2026, including 66 M.Tech students and 27 Ph.D scholars.



## Academic Departments

Our Academic departments have been discharging their duties diligently on the academic front we undertake various measures to impart high quality education. Research activities are supported in all the Departments so that we can remain at the cutting edge. Departments have conducted several activities for professional development of Students, Faculty and Staff as well. These include FDPs, STTPs and National as well as International Conferences and Seminars.

## Research, Consultancy and Innovations

College has been promoting students' research and development through various ways. Innovation and Entrepreneurship Development Centre is doing commendable services in kindling student innovations with a partial support from Kerala Startup Mission. Faculty research is also supported in various ways including seed funding and research promotion incentives. Several soil investigation and topographic survey works are being done for the PWD, KWA and Smart City Project.

## Office of the Controller of Examinations

Office of the Controller of Examinations (CoE) is one of the significant functional units of an Autonomous Engineering College, which is responsible for the entire examination lifecycle, ensuring confidentiality, fair assessment, and timely results. The Examination wing under the Controller of Examinations has been conducting all the examinations as per the curriculum in a very systematic manner. The Evaluation wing has been carrying out the process of evaluation of answer papers effectively so as to publish the results on time.

## Internal Quality Assurance Cell

The Internal Quality Assurance Cell (IQAC) is an important functional unit as per the UGC to monitor and assure the academic quality of the College. The Cell has representation from academia, industry and alumni and students, and conducts Internal & External Audits on a regular basis to ensure that the quality is maintained.

## Library and Information Services

College Library is maintaining good ambience for the users. Online services, Question Paper Repository, OPAC etc. are very popular. The digital library enables access to a good number of journals and conference proceedings.

## ITMS Department

The Department for IT Management and Services has been looking after the entire IT infrastructure of the College and the Software systems. We have the leased line connectivity of up to 500 MBPS and is dynamically managed to serve all the users.

## Campus Placement and Corporate Relations

Coordinated by the Placement Unit, the 2026 graduating batch has secured close to 225 offers so far through on-campus, and off-campus placements, covering both undergraduate and graduate programmes. 190 students have been placed in different companies. In addition, several students have received internship offers from reputed companies.

Corporate Relations team of the College has been very proactive in establishing linkages with Industries and Organisations resulting in many Collaborations and MoUs with the support of the academic departments.

## Chapters of the Professional Bodies

The local Chapters of the professional bodies like Indian Society for Technical Education (ISTE), Institute of Electrical and Electronics Engineers (IEEE), Institution of Engineering and Technology (IET), American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME), Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), Computer Society of India (CSI), Indian Plumbing Association (IPA), Society for Automotive Engineers (SAE), Indian Geotechnical Society (IGS), various Student Clubs, etc. have been very active this year also. Both the faculty and student members have brought many laurels to the College through their accomplishments and awards at the local and national levels.

## Accomplishments in the Extracurricular Arena

Our College continues to uphold the tradition of promoting sports and games. Students, as individuals and teams have participated and won several championships in sports and games.

17 students represented the University and 3 students represented Nationals in different games in Men and Women category. Shone C. Achankunju of S8 EC became the Fastest Male Athlete of the University consecutively for the second time in 100 mtr race with a record breaking time. Sherry Shaji Thomas of S2 CT has broken the 6 year old record time in 5000m Women Walking competition in the KTU Athletics meet. Our Basketball and Tennis Men team became the Champions consequently third time in the University competition.

## Alumni Affairs

College is maintaining high regards for its alumni. The Alumni Association MBCETAA has been extending their guidance and support for a number of activities including conferences, workshops, FDPs, Technical and Cultural fests as in the previous years.

## Outreach Activities

The outreach to the community for voluntary service are organized every semester to enable the social and emotional learning of the students through community service.

Our NSS Units, attached to the NSS Cell of the APJ Abdul Kalam Technological University, have organized a number of social service activities including blood donation, awareness campaigns and services to community.

In addition, different Cells, Centres and Clubs involving students play a major role in promoting value education. These include Department level Associations and Societal Wings, the Cell for Universal Human Values, ISTE SHE, IEEE WIE, Women's Studies Unit, the Clubs for the Co-curricular activities and so on, and are used as platforms for sensitizing the students about the values like gender equity, social inclusivity, integrity, accountability and commitment.

In addition, the College is also providing Counselling and Nursing Services to the needy students.

## Meetings of the Statutory Bodies and Committees

The Statutory Bodies and various committees at the College level and the advisory boards of the Departments and other bodies were meeting on a regular basis in the year under report.

## Highlights

I am extremely happy to highlight a few significant achievements of the College during the Year 2025-26

1. Five B.Tech Programmes have been accredited by the National Board of Accreditation under the Tier-1 category, a recognition that reflects MBCET's steadfast pursuit of academic excellence and quality enhancement.
2. MBCET became the first Satellite Centre of Trivandrum Engineering, Science and Technology Research Park.
3. MBCET is ranked 12th this year by the Kerala Institutional Ranking Framework improving its position from 21 in the previous year.

4. Our students' team Vidhyuth from the Department of Electrical and Electronics Engineering represented the College at National level for the first time participating in InSpace Model Rocketry competition at Khushinagar, UP in October 2025 and successfully launched a rocket built by the team and was awarded the excellent grade.
5. The College received the Best Exhibition Stall Award in Engineering College Category at the National Research Conference and Kerala Higher Education Expo held at Thiruvananthapuram during 9-11 February 2026.
6. Recognised by AICTE as UHV-nodal Centre for its contribution to value education.

## Conclusion

I conclude this Report by placing on record our sincere gratitude to our Patron and Manager, His Beatitude Moran Mor Baselios Cardinal Cleemis Catholicos whose visionary directions and guidance have been providing us with the motivation, strength and enthusiasm to go forward. We acknowledge the guidance and support from our Director Rev Fr John Varghese, Bursar Rev Dr Koshy Isaac Punnamoottil, our former Finance Officer Rev Fr Thomas Mukalumpurath, Members of the Governing Body, Academic Council, Boards of Studies, Department Advisory Boards and various Committees. We also appreciate the collaboration from our sister institutions.

On behalf of the College, I express gratitude to our Deans, HoDs, Senior Professors, Senior Officers, Faculty, Staff, and all who have extended support and guidance for us in various ways during the year under report. We thank our Staff and Students for their deep involvement and impeccable cooperation in academics and various related activities that enabled the College to maintain a reputable position among the institutions of higher education in the country. We acknowledge the support from the parents and the PTA Executive in the academic management and in maintaining discipline.

We earnestly look forward to getting the unconditional support and care from the parents, employees, all other stakeholders and the well-wishers in the coming years too.

There are lot many activities which are not mentioned explicitly here to make the report as brief as possible.

Before I conclude I wish all success for our 2026 pass out batches of students who are about to leave the campus to start a new and exciting journey, and pray for their success and wellbeing.

From classrooms to activity clubs, projects of social relevance, cultural activities, sports and games, the spirit of collaboration and purpose runs deep. Faculty mentor with passion, students engage with curiosity, and alumni give back with pride. It is this shared commitment to learning, innovation, and service that transforms our campus into more than buildings and programs - it becomes a living ecosystem where ideas grow, talents are nurtured, and values take root. As we march to the Silver Jubilee Year, together, we continue to build a culture that celebrates achievement, supports growth, and strives for excellence every day.

Thank you

Jai Hind





ACADEMIC  
AWARDS  
2025-2026

# ALL ROUND PERFORMANCE AWARD



**ASHNA RACHEL SHINE**  
B. TECH IN CIVIL  
ENGINEERING



**AAROMAL SANTHOSH S**  
B. TECH IN MECHANICAL  
ENGINEERING



**DEVAPRIYA P J**  
B. TECH IN ELECTRICAL AND  
ELECTRONICS ENGINEERING



**RACHEL ANTONY P**  
B. TECH IN ELECTRICAL AND  
COMPUTER ENGINEERING



**SHONE C ACHANKUNJU**  
B. TECH IN ELECTRONICS AND  
COMMUNICATION ENGINEERING



**ANAND PILLAI**  
B. TECH IN COMPUTER  
SCIENCE AND ENGINEERING



**JYOTHSNA P NAIR**  
B. TECH IN COMPUTER SCIENCE AND  
ENGINEERING (ARTIFICIAL INTELLIGENCE)

# BASELIAN AWARD

# YOUNG WIZARD OF SCIENCE



**ANAND PILLAI**  
B. TECH IN COMPUTER  
SCIENCE AND ENGINEERING



**LEN JOHN ALEX**  
B. TECH IN COMPUTER SCIENCE  
AND ENGINEERING

# PROFICIENCY AWARDS

DEPARTMENT OF CIVIL ENGINEERING



**DHANANJAY R VIVEK**  
S3 S4, CIVIL ENGINEERING



**SAIKRISHNAN V B**  
S5 S6, CIVIL ENGINEERING



**FEBA M PAUL**  
S5 S6, CIVIL ENGINEERING



**APARNA BINS B S**  
S7 S8, CIVIL ENGINEERING



**SRUTHI S**  
M. TECH IN STRUCTURAL ENGINEERING



**ANJANA SATHEESH M P**  
M. TECH IN TRANSPORTATION ENGINEERING

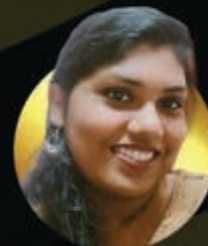


**AKSHAYA T SIJU**  
M. TECH IN ENVIRONMENTAL SCIENCE AND  
ENGINEERING

## DEPARTMENT OF MECHANICAL ENGINEERING



**DHANWANTH KRISHNA D**  
S3 S4, MECHANICAL ENGINEERING



**GOWRI R G**  
S5 S6, MECHANICAL ENGINEERING



**ABHIJITH B NAIR**

S7 S8, MECHANICAL ENGINEERING



**RAHUL S NAIR**

M. TECH IN MACHINE DESIGN

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



**ANANTHAKRISHNAN A A**

S3 S4, B. TECH IN ELECTRICAL AND  
ELECTRONICS ENGINEERING



**ANANTHAKRISHNAN H**

S5 S6, B. TECH IN ELECTRICAL AND  
ELECTRONICS ENGINEERING



**JAISH J S**

S7 S8, B. TECH IN ELECTRICAL AND  
ELECTRONICS ENGINEERING



**ANGEL NIZY SIMON**

M. TECH IN POWER CONTROL AND DRIVES



**JOEL JOY**

S3 S4, B. TECH IN ELECTRICAL AND  
COMPUTER ENGINEERING



**RYAN MATHEW MANUAL**

S5 S6, B. TECH IN ELECTRICAL AND  
COMPUTER ENGINEERING



**THAMANNA PRASANTH**

S7 S8, B. TECH IN ELECTRICAL AND  
COMPUTER ENGINEERING

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



**ANGELINE ANN RENJI**

S3 S4, ELECTRONICS AND  
COMMUNICATION ENGINEERING



**PUSHKALA S S**

S5 S6, ELECTRONICS AND  
COMMUNICATION ENGINEERING



**JUBY J PAPPAN**

S7 S8, ELECTRONICS AND  
COMMUNICATION ENGINEERING



**RESHMA R S**

M. TECH IN IoT AND SENSOR SYSTEMS

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



**ANAMIKA P**

S3 S4, B. TECH IN COMPUTER  
SCIENCE AND ENGINEERING



**SARAH ELIZABETH OOMMEN**

S3 S4, B. TECH IN COMPUTER SCIENCE AND  
ENGINEERING



**ANNA GEORGE**

S5 S6, B. TECH IN COMPUTER  
SCIENCE AND ENGINEERING



**PRANAV SHANKAR H**

S7 S8, B. TECH IN COMPUTER  
SCIENCE AND ENGINEERING



**AISWARYA GIRISH NAIR**

M. TECH IN COMPUTER SCIENCE  
AND ENGINEERING



**ROSHAN GEORGE JIM**

S3 S4, B. TECH IN COMPUTER SCIENCE AND  
ENGINEERING (ARTIFICIAL INTELLIGENCE)



**MATHEW BIJU GEORGE**

S5 S6, B. TECH IN COMPUTER SCIENCE AND  
ENGINEERING (ARTIFICIAL INTELLIGENCE)



**APARNA G RAJ**

S7 S8, B. TECH IN COMPUTER SCIENCE AND  
ENGINEERING (ARTIFICIAL INTELLIGENCE)

# MEMORIAL AWARDS

## PROF. RV CHITHRA MEMORIAL AWARD



**AARON JOSEPH**

S8, DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING

## MS. ANNU MEMORIAL AWARD



**NANDANA N**

S8, DEPARTMENT OF CIVIL ENGINEERING

## MR. ARUN MEMORIAL AWARD



**PRANAV SHANKAR H**

S7 S8, B. TECH IN COMPUTER  
SCIENCE AND ENGINEERING

PROF. HARIVENKIT MEMORIAL  
AWARD



**GOWRI R G**

S5 S6, MECHANICAL ENGINEERING

MR. HARI R KRISHNAN  
MEMORIAL AWARD



**ANUPAMA A P**

S2, ELECTRONICS AND  
COMMUNICATION ENGINEERING

MS. REEBA SUSAN MAMMEN  
MEMORIAL AWARD



**PRANAV P**

S6, DEPARTMENT OF COMPUTER  
SCIENCE AND ENGINEERING

BASELIAN KAYIKA  
PRATHIBA - MEN



**ARAVIND AJAY**

S8, MECHANICAL ENGINEERING

BASELIAN KAYIKA  
PRATHIBA - WOMEN



**DIYA VJAYAN V D**

S8, ELECTRONICS AND  
COMMUNICATION ENGINEERING

MBCETAA OUTSTANDING  
PERFORMER AWARD



**BLESSY SMITHA DAS**

DEPARTMENT OF ELECTRICAL &  
ELECTRONICS 2025 GRADUAND

# VOICES IN INK





## Eternity in Flight

A butterfly once bloomed from quiet pain,  
Her wings stitched softly with yesterday's rain.  
She carried whispers of places and names,  
Of hearts that loved her and hearts that played games.

She had tasted love — sweet as the morning dew,  
Yet sour like storms that split the sky in two.  
Some hands held warmth, some carried disguise,  
And betrayal fluttered like dust in her eyes.

They taught her silence, they taught her goodbye,  
They taught her how fragile a promise can lie.  
So one dawn she rose where the wild winds play,  
And folded those memories gently away.

No cage of sorrow could quiet her flight,  
She danced past the shadows into the light.  
The past fell softly like petals below,  
As freedom stitched courage in every slow blow.

Then through the horizon of gold and blue air,  
Another butterfly drifted from somewhere.  
Not chasing, not claiming, just flying beside,  
A quiet forever in rhythm and glide.

No chains of yesterday, no echoes of pain,  
Just two fragile wings learning sunlight again.  
Through endless skies where the soft winds sing,  
They wrote their eternity wing by wing.

**Nandana Anand P**

S8 CS-1

# BETWEEN SHELVES OF FAITH

"SOME CONNECTIONS ARE REMEMBERED, NOT MADE."

Aisha Farha S.  
S8 EC-1

Once, in a quiet corner of the world, a girl fell asleep with ordinary thoughts and woke inside something extraordinary.

She found herself wandering the soft grey streets of London, where the air carried the scent of rain and old paper. A small silver bell chimed as she stepped into a hidden bookstore tucked between buildings most people never noticed.

Inside, time moved differently.

Shelves rose taller than memory, lined with books that glowed faintly in the muted light, as if each one guarded a secret meant only for her. Dust drifted through the air like suspended stars.

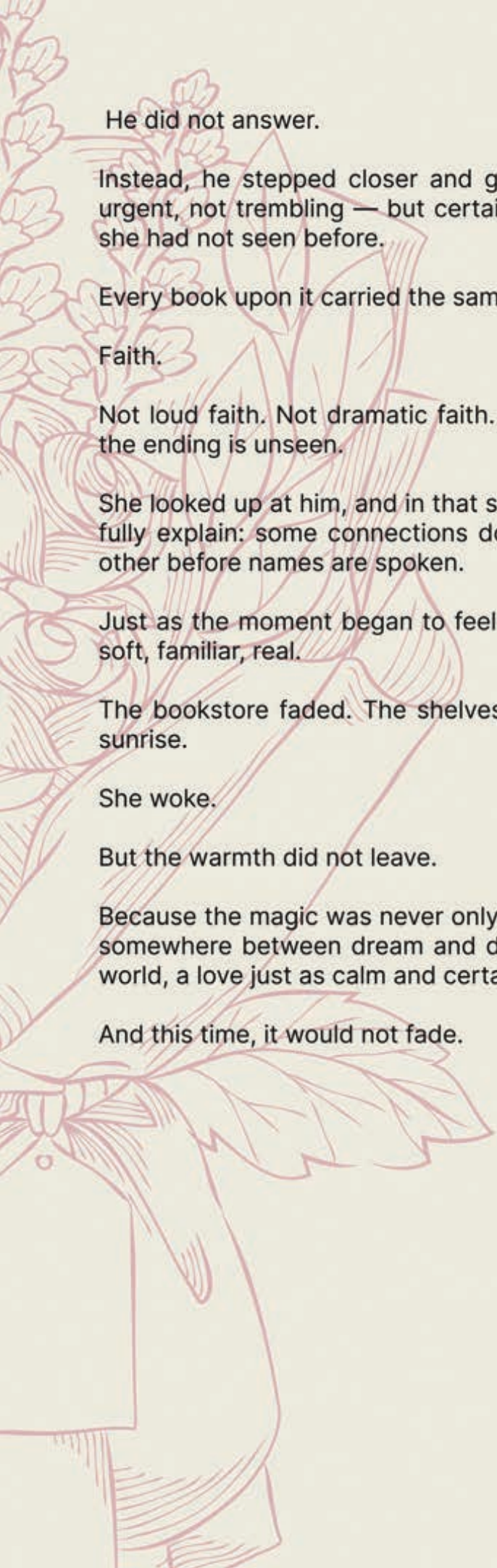
And behind the counter stood someone she had never met — yet somehow knew.

He did not look surprised.

It was as though he had been waiting.

She moved slowly between the shelves, fingertips brushing over gold-embossed spines, her heart louder than her footsteps. When she finally gathered the courage, she asked softly,

"Do you miss me?"



He did not answer.

Instead, he stepped closer and gently took her hand. His touch was steady — not urgent, not trembling — but certain. Without speaking, he guided her towards a shelf she had not seen before.

Every book upon it carried the same single word:

Faith.

Not loud faith. Not dramatic faith. But quiet faith — the kind that remains even when the ending is unseen.

She looked up at him, and in that silence she understood something words could never fully explain: some connections do not need beginnings. Some souls recognize each other before names are spoken.

Just as the moment began to feel eternal, a distant voice called her from far away — soft, familiar, real.

The bookstore faded. The shelves dissolved. His hand slipped from hers like mist at sunrise.

She woke.

But the warmth did not leave.

Because the magic was never only in the boy. It was in the feeling — a promise written somewhere between dream and destiny — that one day, in some quiet corner of the world, a love just as calm and certain would be waiting.

And this time, it would not fade.

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# SKY IS NOT THE LIMIT: EVOLUTION OF INDIA'S LAUNCH VEHICLES

SREEKIRAN A  
S2 EEE



India is achieving revolutionary achievements in the field of space research day by day. We are going to witness our manned mission, which is developed indigenously by our prestigious organization, Indian Space Research Organization – ISRO



## The History:

It all began during the era of the Cold War. The post-independence India was under the process of development. The development of society will boost only by scientific & tech development. Curious minds like Vikram A. Sarabhai and Homi J. Bhabha were working to empower India through the field of science research. Both of them were curious and experienced in the field of researching & observing the features of cosmic rays. The geographical position of the Indian subcontinent is apt for the research of cosmic rays and related fields. This interest in them fueled the space odyssey journey of India.

At the infant stage of Indian space research (during the beginning of the 1960s), it was controlled and coordinated under the Department of Atomic Energy. By 1962, the Indian National Committee for Space Research (INCOSPAR) was established and chaired by Dr. Vikram Sarabhai.

By 1963, TERLS (Thumba Equatorial Rocket Launching Station) was established (date: Nov 21st). The inauguration was carried out by the U.S.-supplied sounding rocket Nike Apache, by successfully launching 715 kg sodium vapour payload provided by France, which helped to study the upper atmospheric wind by observing the orange cloud formed at an altitude of 208 km.

Before acquiring the liquid propulsion engines, India initially specialised in sounding rockets mainly used for research and study purposes related to upper atmospheric regions. The first indigenously built sounding rocket "Rohini-75", was launched on November 20, 1967 and successfully created an efficient sounding rocket series, Rohini, including RH 200, RH 300, & RH 560.

India chose an island called Sriharikota for launching purposes. The centre became operational on 9th October 1971 when an RH-125 was launched. This island was acquired by ISRO due to its geographical features like nearness to the equator, benefiting eastward launches, large uninhabited area, and a good launch azimuth corridor for various missions.

In memory of the legend Satish Dhawan, former chairman and one of the great brains behind the development of ISRO, the SHAR (Sriharikota Range) was renamed as Satish Dhawan Space Centre.

By the late 1970s, India successfully developed their first launch vehicle, Satellite Launch Vehicle (known as SLV-3). SLV was intended to reach a height of 400 km & able to carry a payload of 40 kg. The first experimental launch was a failure, followed by a successful one on 18th July 1980.

Following SLV, ASLV (Augmented SLV) was designed. Due to repeated failures, ASLV was dropped and paved the way for the legends.

Then the era of the giants and precise ones came. After keen observations and research by the great scientists, they developed PSLV (POLAR SATELITE LAUNCH VEHICLE) by the 1990s. Out of 62 till now, about 57 successful launches show PSLV's

accuracy. PSLV is our prestigious design which flourished our Mars odyssey. It also brought our first moon mission, Chandrayaan-1, to the moon's orbit successfully.

GSLV(GEO SYNCHRONOUS SATELITE LAUNCH VEHICLE) is a medium-lift launch vehicle. It started its journey from the 1990s. It consists major components which is similar to PSLV. It is similar to PSLV in the form of S125/S139 solid rocket boosters and a liquid-fueled Vikas engine.

The 3rd stage was to be procured from the Russian company Glavkosmos, including the transfer of technology. Russia backed out of the deal after US objected to the deal as a violation of the Missile Technology Control Regime.

As a result, ISRO initiated the cryogenic upper stage project in April 1994. But the fabricated ISRO espionage case, which crucified the brain behind cryogenic engine Nambi Narayanan, also lagged the development of cryogenic technology. Then, it reached the level of the LVM3(LAUNCH VEHICLE MARK III) series, which is an updated version of the advanced version of GSLV which is more powerful able to carry upto 4 tons for the geo synchronous orbital(GSO) insertion and upto 10 tons for the lower earth orbital insertion(LEO). Due to its massive capacity that can be launched, its nickname is "Baahubali". The latest successful launch was LVM3-M6, which successfully placed 6100 kg BlueBird-2 communication satellite into LEO.

Now we are entering into the manned mission by ISRO, Gaganyaan, expected to launch in early 2027. We have successfully done the trials of the crew module and its unmanned vehicles. The Gaganyaan launch vehicle is a specially configured human-rated LVM3 (HLVM3), with the capacity to carry 3 crew members safely and inject them into a 400 km LEO.

In concluding this article, it is important to remember and acknowledge the great scientists behind our space odyssey, such as A. P. J. Abdul Kalam, Satish Dhawan, and many others whose vision and dedication laid the foundation for India's space achievements.

As engineering aspirants, we should stay focused and inspired by their journey, and work towards contributing to the future of space research and space entrepreneurship.

As A. P. J. Abdul Kalam rightly said,

"Dream, dream, dream. Dreams transform into thoughts and thoughts result in action."

# THE WEIGHT OF A WARM CUP

Anasooya P Nair  
S2 CT

The cup is warm with coffee,  
Its steam rising up, warming my fingers.

Kitty is asleep near me,  
Her whiskers twitching once in a while,  
Her tail brushing my arm.

I sip the hot liquid  
And feel something close to peace  
Settle quietly in my chest.



I lift the cup again,  
Its weight grounding me to this moment.  
Kitty wakes and paws at my sleeve,  
Asking for a little more of my attention

And for a while,  
Nothing else in the world feels urgent.

# ALADDIN & CALCULATORS

Elvis Mathews Olickal



## Is AI gonna steal our brains?

Those keeping up with my boring LinkedIn posts may know; recently we'd been conducting interviews for our college's public speaking club, Samvadam. I was tasked with reading the self intros of the prospective candidates. A couple of sentences in, it was clear - AI generated content.

## Can we blame them?

In times when cut throat competition and doom scrolling coexist (and thrive, in fact), offloading all of our tasks which requires the use of our cognitive abilities seems tempting. The problem?

Neural pathways that develop when you use your brain to complete tasks and solve issues, are now underdeveloped.

For those who use the example of calculators to describe the advent of AI (myself included), let me tell you how you're wrong. While our dear Casio brothers required us to have a certain understanding of mathematical concepts in order to utilize them, the same cannot be said for AI. While calculators served as a tool to amplify human output, to accelerate the growth of the human mind, our AI models act as a literal substitute to us using our brains.

One serves as a tool to reduce human efforts, the other is basically Aladdin's genie.

Ever heard of 'Cognitive Offloading'? The term used to describe the phenomenon where we delegate our thinking tasks to AI, i.e., essentially ordering the AI to think for us. The result?

Reduced mental performance in terms of critical thinking, reasoning, and analytical ability.

In terms of neuroscience, offloading results in a redistribution of cognitive load (the brain's tasks), altering the dorsolateral prefrontal cortex, which is the area of the brain responsible for memory and executive function. Prolonged overloading leads to a neural 'pruning' of underutilized cognitive pathways (in other words, if you don't use your brain, it will literally deactivate parts of itself)

### **What about using AI to study?**

A study conducted by the University of Pennsylvania's Wharton School had some interesting results. The researchers divided high school students into three groups – one had access to basic GPT, the second had access to advanced GPT, and the third did not use AI at all.

While the first and second performed better on practice tests; by a considerable margin, compared to the third, something unexpected happened when the groups lost access to AI. They did worse. This is evidence of the fact that increased dependency leads to reduced cognitive performances and a lack of independent thinking.

So, is AI going to steal our brains? May be not in a sci-fi, Matrix-style way — but slowly, subtly, it might just convince us to stop using them. And that's scarier.

The next time you're tempted to let Chat GPT write your intro, solve your math, or think through a problem for you, pause. Give your neurons a little workout. Use your brain not because you have to, but because it's still the most powerful tool you'll ever own.



# THE 80 - 20 PRINCIPLE

Elvis Mathews Olickal



What if I told you that the secret to being more productive is NOT working hard? Seems counter-intuitive right?

Fair enough. Let's learn about the 80/20 principle, a foundational aspect of working 'smart'.

The 80/20 Principle, also known as the Pareto Principle, is a concept that states that roughly 80% of effects come from 20% of causes. 80% of sales comes from just 20% of your clients. 80% of what you wear comes from just 20% of your wardrobe.

Does the principle apply to anything and everything? Yes and No. While the fact that a majority of the results arise from a minority of efforts is observed in almost all walks of life, the exact proportion of 80-20 may vary, like 70-30 or 90-10.

Now how did this concept come into place? This goes back to the late 19th century, where a certain Italian economist by the name of Vilfredo Pareto made an observation. 80% of the land in Italy, was owned by 20% of the population. (Unfair? That's a whole other topic - Capitalism vs Socialism)

You know how some geniuses are right? Once they lock on to something, they keep seeing it everywhere. Pareto, interestingly, saw it in his garden itself. 20% of the pea plants produced 80% of the peas collected.





Thus began the genesis of the Pareto principle. His findings were built on by a management consultant named Joseph Juran, in the 1940s. Mr Juran applied the logic put forward by Pareto and applied it to quality control in production industries. The result? He was able to demonstrate that 80% of the defects in products were caused by 20% of the production problems. (He also coined some terms like 'vital few' and 'trivial many' - self explanatory).

Misapplication of the principle can lead to completely ignoring the remaining 80% of factors, which may still be important for overall success. Also, the principle cannot be repeatedly applied to its own results without leading to absurd conclusions. Attempting to find the 20% of the 20% often produces meaningless results. (This isn't recursion 😊)

To all the jack-of-all-trades out there, it is better to excel in a few areas than to stretch yourself too thin and produce average efforts in many. (Despite how the saying goes.)

So the next time you pick off something from your to-do list, pause. Let the 80/20 framework guide your decisions. The secret sauce isn't the number of hours spent, but how you spend them. Quality, not quantity, is the path to living better.

For more insights you can checkout the book 'The 80/20 Principle' by Richard Koch (Not a promotion 😊)





# The Reality Vertigo: Navigating the Industrialized Noise of Misinformation 2.0

SREEKIRAN A  
S2 EEE

If you're still looking for obvious "fake news" in headlines—like badly done Photoshop jobs, crazy claims from URLs that end in ".co.vu," and the robotic syntax of early Russian bot farms—you're fighting the last war. That time of making things by hand is over.

Welcome to 2026, the dawn of Misinformation 2.0.

Although generative AI has undoubtedly mastered the aesthetics of credibility, the last three years have seen a fundamental shift in our information ecosystem that goes beyond the

quality of lies. The actual change is in intent, velocity, and scale. An industrialized, frictionless assembly line of synthetic reality has replaced the cottage industry of divisive junk news.

Convincing you of a particular lie is no longer the aim of bad actors in this new paradigm, whether they are corporate saboteurs, state intelligence services, or decentralized chaos agents. Epistemic exhaustion is the aim. It is to flood the area with so much high-fidelity fabrication, half-truth, and plausible-sounding noise that you just stop trying to tell a signal from silence.

### **The "Slop" Engine**

The democratization of competence was the hallmark of the generative AI boom of 2023–2025. All of a sudden, anyone could produce a respectable image or write a good copy. This has evolved into the democratization of sophisticated deceit by 2026.

Text, audio, and video generation have been combined into a cohesive suite by multimodal AI models. It is no longer a dark art requiring weeks of rendering time to create ad "deepfake" video of a CEO declaring bankruptcy, complete with perfect voice cloning and suitable micro-expressions. This prompt-engineering task is completed in a matter of minutes.

However, the spectacular deepfake may not be as dangerous as the commonplace deluge of what pundits have dubbed "AI slop." Numerous petabytes of synthetic content—articles, social media posts, and product reviews—that are neither totally true nor totally false are currently flooding the internet. They are hallucinogenic fillers that are intended to capture fractional attention pennies and manipulate algorithms.

This background noise causes "reality vertigo." Your cognitive baseline for trust starts to decline when a sizable portion of the content you come across on a daily basis is artificially generated non-fact. You adopt a destructive, defensive stance, assuming that nothing is real and ceasing to believe things are real until they are proven to be false.

### **The Liar's Dividend**

This degradation leads us to Misinformation 2.0's most pernicious psychological impact: the "Liar's Dividend."

Paradoxically, the guilty gain from increased awareness of high-quality AI forgery. The validity of any video evidence of misconduct is diminished if it is suspected of being a deepfake. Now, a politician caught on camera or a police officer caught acting violently can just shrug and say, "It was AI."

The burden of proof has drastically changed in 2026. Presenting evidence alone is no longer sufficient for journalists or organizations; they also need to provide a forensic audit trail that demonstrates the proof hasn't been artificially altered. This causes a great deal of friction in the accountability system. While lies are still completely free to fabricate, the truth is still out there, but it is becoming more and more expensive to verify.

### **The Geopolitical Vector**

Our enemies see Misinformation 2.0 as a key strategic tool, while we worry about polarization at home. Context is being used as a weapon. State-level actors are using hyper-personalized,

AI-driven campaigns to target particular voting blocs, military personnel, or corporate boards with customized narratives, going beyond simply sowing discord. The cost of ammunition in this asymmetric warfare is only a few pennies.

If the goal of traditional propaganda was to make you love the Leader, the goal of 2.0-style information warfare is to make you hate your neighbor. It also aims to make you distrust the institutions that could help manage that hatred. When a society cannot agree on basic facts about elections, public health, or economic data, it cannot come together. It becomes stuck. This paralysis serves as a strategic win for our geopolitical rivals.

Ultimately, Misinformation 2.0 is not just a technological issue with a quick fix. It is an environmental crisis. We have polluted our information ecosystem with harmful noise. Surviving it requires a new kind of mental strength—a constant, low-level skepticism paired with a conscious trust in human curation instead of algorithm-driven content. The truth is no longer obvious. It has become a rare resource that must be actively pursued, thoroughly checked, and strongly protected.

# After Everything is Changed

They took a heart from someone else,  
and placed it deep inside my chest—  
it beats, it lives, it keeps me here...  
but does it know who I am yet?  
They gave me eyes that once had seen  
a different sky, a different light—  
I look around, the world is mine,  
but were these dreams once someone's sight?  
A hand replaced, a borrowed touch,  
a skin wrapped around my frame—  
I move, I feel, I breathe, I live...  
and yet, I still say my own name.  
Kidney, veins, a thousand parts,  
each one another's story I can't recall—  
piece by piece, I've been rebuilt...  
and still, I stand. I am still... whole.  
So where am I in all of this?

If nothing here was mine before—  
if every piece has been replaced,  
what is it that I'm fighting for?  
And then... the question cuts too deep.  
What if they take the final part—  
the mind, the face, the thinking core?  
If my head rests on another's shoulders...  
who walks away from that door?  
Is it me—who feels, who fears, who knows?  
Or someone else, with my old name?  
If thoughts remain but body changes...  
or body stays and thoughts rearrange—  
Where do I end? Where do I start?  
Am I the brain? The soul? The spark?  
Or just a pattern, fragile, lost...  
flickering somewhere in the dark?  
I reach for answers—none reply.  
No mirror shows me something true.  
After everything is changed...  
tell me—  
who are "you"?

**Prathibha S Nair**

Assistant Professor,  
Department of CSE, MBCET.

# COMPETITION TO ACHIEVE

**LEKHA RANI U.K**  
**Receptionist**

You are exposed to the unrelenting world of competition right when you step into your LKG class. 'Silly competitions' in the beginning grow in magnitude as the child matures into a grown up person. It is true that competition brings out the best in a student, but how far? Let us contemplate the optimum level of competition.

The rank system in school; competition in art festivals, sports festivals, competitive Exams like Civil Service Exam are examples of competition where one's ability is matched against others. We can see competition among companies manufacturing similar products like cars, televisions, mobile phones etc. Even nations compete with each other on various matters like military might, modern weaponry, territorial ambition etc.

In this era material affluence everything has become a competition, even life itself! To get admission in a good educational institution, when the numbers of aspirants are much more than the numbers of available seats, naturally there will be competition to grab a seat. After finishing your studies when you seek a job, the competition becomes harder all the more so, when the job on offer is having a high salary tag.

In a ruthless world of competition all cannot be winners, but it does not mean those who could not reach the top of the ladder, are failures. They need not anticipate, disaster because a better journey may be lying ahead. As some poet has beautifully said " If you cannot be a big tree, be a flowering plant, but the best flowering plant."



All are born with some talents. What is important here is to identify the area in which you are strong because you will be strong in some area for sure. This is the reason why students are exposed to various subjects through their school and higher secondary syllabus. A keen student can identify his/her area of interest with the help of teachers and parents. Identifying the area of interest alone will not do magic; together with hardwork and perseverance it definitely will.

Participating in a competition, while you strive to win, do remember that others also have a right to win. There are some competitions where you have to participate with a sportsman spirit; as in your arts festival or sports meet. Here participation is more important than winning it. To sum up, healthy competition is complementary to achievement, whereas cut throat competition can be nerve wrecking. Therefore, in the words of Sachin Tendulkar "Chase your dreams and compete with yourself, not with others." The best advice given to youngsters by our former President Dr.APJ Abdul Kalam is "All of us do not have equal talent but, all of us have an equal opportunity to develop our talents."



# BEYOND THE INNER CHATTER

JOSEPH CHERIYAN  
PROFESSOR OF MATHEMATICS

Often, we hear profound philosophical or metaphysical questions: Why did we come into this world? What is the purpose of life? Who am I? While these questions are significant, I believe a more practical one is this: Are we living a stress-free life, exploring the infinite possibilities that this creation offers?

By “possibilities,” I do not mean amassing wealth or climbing the ladders of so-called success.

I am reminded of the Malayalam film *James & Alice*, in which the protagonist lives a deeply troubled life, bringing untold suffering to his wife and those around him. After he dies at a young age, his soul speaks with a saint. As they review the struggles he created, the saint points out the other choices that were available to him—paths that could have led to peace and harmony.

Within families, such ego-driven arguments and unpleasant scenes can leave deep scars on young children, shaping their personalities as they grow. Yet when parents complain about their children during their teenage years, they rarely recognize their own contribution to the situation.

We sometimes see people blessed with wealth and comfort turning their lives into misery simply through unconscious choices. It is a tragedy. Yet it would be unfair to blame them completely, for they too are products of their own conditioning to which we are also a part.

Perhaps one of the purposes of life is to develop the awareness that enables us to live peacefully—both for ourselves and for everyone we encounter. But what prevents us from living in such a state?

Very often we assume that our thoughts and actions are correct and that the faults lie with others. In reality, our way of thinking is shaped by countless influences—parents, culture, religion, friends, and the environment we grow up in. Over time these influences become habits of thought, and once firmly established they are difficult to change.

One of the greatest obstacles is that we rarely experience inner silence even for a moment. Our minds are constantly occupied with thoughts—mostly repetitive, worrisome, and often unnecessary. Freeing the mind from this endless chatter has become increasingly difficult, especially in this age of technological explosion.

Is it really possible for us to fully experience nature—the trees we pass by, the coolness of the air, the emotions of people crossing our path, or even the sounds around us while we travel? Most of the time, the answer is no. We remain trapped in the web of our own continuous internal conversations.

This does not mean that thinking has no value. Thinking is necessary for planning our lives and carrying out our responsibilities. However, the constant stream of fear, worry, comparison, judgment, and resistance prevents us from truly living in the present moment. Our level of awareness at any given time often determines how effectively we perform our work, however demanding and complex it may be.

Recently, I watched the American climber Alex Honnold accomplish a remarkable feat of free solo climbing Taipei 101 skyscraper in Taiwan, without ropes or safety equipment. What impressed me most was the extraordinary calmness with which he carried out the climb. It seemed as if his mind was completely free from inner chatter, allowing him to live every moment of the climb with total presence.

I am also reminded of the legendary ballet dancer Vaslav Nijinsky, famous for his gravity-defying jumps during his dance performances. When asked about his technique, he once remarked, "While dancing, there is only the dance and no 'me.'" In other words, he was completely absorbed in the movement, free from the noise of the internal chatter.

It is important to realize that we have access only to the present moment, in which all of life happens. If we remain vigilant and do not fall prey to the tricks of the restless mind, swinging between the past and future, we may gradually create a small heaven of our own. The journey begins by looking inward and asking ourselves a simple question: Is there room within us for transformation?

# Beyond the Algorithm: Why Civil Engineers Still Matter in the Age of Artificial Intelligence

Dr. Jisha S V  
Associate Professor,  
Department of Civil Engineering

## Introduction: Engineering at the Edge of a Digital Revolution

When we cross a bridge, enter a skyscraper or travel through a tunnel carved beneath mountains, we rarely think about the invisible network of engineering decisions that made these structures possible. Civil engineering has quietly shaped human civilization for centuries from Roman aqueducts and medieval cathedrals to modern megacities and global transportation networks. Today, however, the profession stands at a technological crossroads. Artificial Intelligence (AI), digital twins, robotics and advanced simulations are rapidly transforming how infrastructure is planned, designed and maintained. Algorithms can now generate structural design alternatives, optimize construction schedules and monitor infrastructure health using real-time sensor data.

To some observers, this raises an unsettling question: **If machines can design structures and automate complex calculations, will civil engineers become obsolete?**

The reality is quite the opposite. As infrastructure systems grow more complex and societies demand safer, smarter and more sustainable cities, the need for engineering judgment has never been greater. Artificial intelligence may enhance analytical capabilities, but it cannot replace the creativity, responsibility and ethical decision making that define civil engineering. Rather than replacing engineers, AI is redefining their role from calculators of equations to architects of intelligent infrastructure systems.

## **Smarter Beginnings: AI in Infrastructure Planning**

Every infrastructure project begins long before the first foundation is laid. Site selection, environmental analysis and feasibility studies form the foundation of successful infrastructure development. Artificial intelligence is transforming these early stages of engineering practice. Machine learning algorithms can analyze satellite imagery, terrain models, rainfall patterns, traffic flow data and demographic information to help engineers identify suitable locations for infrastructure development. Drone-based surveying and LiDAR scanning now allow engineers to create detailed three-dimensional terrain models within hours instead of weeks. These technologies enable engineers to identify flood risks, slope instability, drainage behavior and environmental constraints much more efficiently.

Despite these technological advances, planning decisions still require engineering judgment. Infrastructure projects must consider ecological impact, community needs and long term sustainability factors that algorithms alone cannot fully evaluate.

## **Designing with Intelligence: AI-Assisted Civil Engineering**

Artificial intelligence is increasingly assisting engineers during structural design. Generative design tools can automatically produce multiple structural configurations based on parameters such as loading conditions, material properties, cost constraints and building codes. By evaluating thousands of design possibilities, these systems help engineers identify efficient structural solutions while reducing material consumption and construction costs.

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**Figure 1: (A) Shanghai Tower, Shanghai, China** (Photo Courtesy: Gensler Architects / Shanghai Tower Construction and Development Co.), **(B) Crossrail / Elizabeth Line Infrastructure Project, London** (Photo Courtesy: Crossrail Ltd.) and **(C) MX3D 3D-Printed Steel Bridge, Amsterdam** (Photo Courtesy: MX3D / Joris Laarman Lab)

## Infrastructure That Thinks: Digital Twin Technology

Modern infrastructure is increasingly equipped with sensors that measure vibration, temperature, strain and traffic loads. These data streams feed into digital twin models virtual replicas of real infrastructure systems.

One notable example is the Sydney Harbour Bridge, where digital monitoring technologies help engineers analyse structural behaviour and support long term maintenance planning. Sensor data allows engineers to simulate how the bridge responds to environmental conditions, traffic loads and long-term material fatigue.



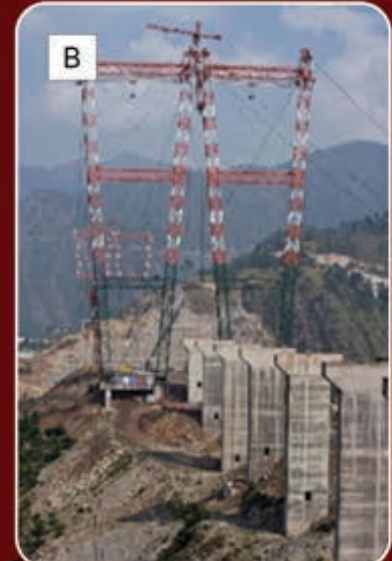
**Figure 2: (A) Sydney Harbour Bridge, Australia** (Photo Courtesy: Transport for New South Wales) and **(B) Golden Gate Bridge, San Francisco, USA** (Photo Courtesy: Golden Gate Bridge Highway and Transportation District)

## Protecting Icons: AI in Structural Health Monitoring

Historic and large-scale infrastructure systems are increasingly monitored using artificial intelligence. The Golden Gate Bridge in San Francisco uses structural health monitoring systems that measure wind loads, vibrations and structural displacement. Machine learning algorithms analyze these data streams to detect unusual structural behaviour and predict maintenance requirements.

## Engineering Marvels in India: The Chenab Rail Bridge

India's Chenab Rail Bridge in Jammu and Kashmir stands as the world's highest railway bridge, rising about 359 meters above the riverbed. Advanced digital modelling, structural simulations, and wind-tunnel testing were used to ensure the bridge could withstand extreme environmental conditions and seismic forces.



**Figure 3: Chenab Rail Bridge, Jammu and Kashmir, India** (Photo Courtesy: Konkan Railway Corporation / Indian Railways)

### The Irreplaceable Factor: The Human Element in Civil Engineering

Despite the remarkable capabilities of artificial intelligence, civil engineering remains fundamentally a **human-centered profession**. Infrastructure is not merely a technical product; it is a social asset that affects millions of people over decades, sometimes centuries. Bridges, dams, transportation networks and urban infrastructure must operate safely under uncertain conditions and constantly changing environments. While AI can analyze large datasets and generate optimized design alternatives, it lacks the ability to fully understand the broader context in which infrastructure operates. Civil engineers must interpret complex information, consider uncertainties and make decisions that balance multiple competing priorities such as safety, cost, sustainability, environmental protection and social acceptance.

Infrastructure systems are exposed to **unpredictable natural** forces such as earthquakes, floods, hurricanes, landslides and climate-related extremes. These events introduce uncertainties that cannot always be captured accurately by computational models. Engineers must therefore apply professional judgment when determining appropriate safety margins and design strategies. For example, designing a bridge is not only about calculating load distribution and structural capacity. Engineers must also consider foundation conditions, constructability, long-term maintenance requirements, environmental impact and potential future changes in traffic demand. These decisions require a combination of scientific knowledge, practical experience and professional responsibility.

Ethical accountability is another critical dimension of the engineering profession. If an infrastructure system fails, the consequences may involve loss of life, environmental damage and economic disruption. Society therefore places immense trust in civil engineers to ensure that infrastructure systems are safe and reliable.

**The American Society of Civil Engineers (ASCE)** emphasizes this responsibility:

***"Civil engineers are entrusted by society to create infrastructure that protects public safety and supports economic development."***

### **The Civil Engineer of Tomorrow**

The integration of AI into engineering practice is transforming the skillset required for future civil engineers.

Tomorrow's engineers will function as **technology integrators**, combining engineering knowledge with digital tools such as:

- Artificial intelligence and machine learning tools
- Digital twin and smart infrastructure systems
- Building Information Modeling (BIM) platforms
- Advanced materials and sustainable construction methods
- Data analytics and infrastructure monitoring systems

Rather than performing routine calculations, civil engineers will increasingly focus on interpreting complex data, managing infrastructure systems and guiding intelligent technologies toward responsible engineering solutions.

### **Conclusion: Beyond Automation**

Artificial intelligence is reshaping civil engineering by accelerating design processes, improving construction management and enabling intelligent infrastructure monitoring. Yet infrastructure development is not merely a technical challenge - it is a societal responsibility. Algorithms may assist in designing structures, but civil engineers remain responsible for ensuring that infrastructure serves humanity safely, sustainably and ethically. In the age of artificial intelligence, civil engineers are not becoming obsolete - they are becoming **more essential than ever**.

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# ‘Colored Computers’ and their Achievements in NASA

***"God made the integers, all else is the work of man"***

L. Kronecker, German Mathematician (1823-1891)

Dr Krishna Mohan  
Associate Professor SH,  
MBCET

Most of us still consider the work- or research-life in developed nations like USA to be stress-free or free from typical workplace-related issues solely because of their “developed country” status. However, the numerous popular biographies of people from those countries show that this is not always true. One such story comes from a group of black scientists at NASA who made significant contributions to the US’s Apollo mission program.

In 1960s, discriminatory signs such as "Whites Only: Within City Limits After Dark" were still a common sight in many parts of the United States—even 180 years after the country gained independence in 1776. This discriminatory attitude was equally visible at premier research institutes like NASA, where many white scientists maintained an "apartheid" approach. Black employees were barred from using common dining areas, coffee machines, and restrooms. Consequently, they were forced to walk long distances—often up to half a mile—just to access basic facilities. This was required even in harsh weather; in January, for instance, average low temperatures in NASA premises ranged from  $-7^{\circ}\text{C}$  to  $2^{\circ}\text{C}$ . For many women, these harsh conditions and barriers were more than enough reason to avoid applying for jobs there altogether.

Here, I would like to highlight a specific black Mathematician (Katherine Johnson, 1918-2020) who helped NASA successfully accomplish the Apollo missions during the 1960s and 70s. At that time, NASA’s total computing capacity was significantly lower than that of a modern laptop; for comparison, today’s standard machines operate at approximately 16–32 GFLOPS and in the 1960s, NASA’s IBM computers—such as the IBM 7090 data processing system—had very limited power, capable of performing only 24,000 multiplications per second. Because these machines were both limited and expensive, NASA recruited human "computers" (a literal job title at the time) to calculate critical data, including orbital paths, optimum velocities, and lunar landing

locations. These individuals were highly skilled Mathematicians, and the majority were women. Among them, black or colored Americans were segregated into a separate group known as the "West Area Computers"—often disparagingly labelled as "Colored Computers" on the doors of their workspaces, and Katherine was one among them.

Katherine Johnson, a math prodigy, who liked to count in her childhood ("Everywhere she went, Katherine counted. She counted her steps to church, she counted the plates on the dinner table, she even tried counting the stars in the sky", her biographer recalls in "The Story of Katherine Johnson"). And she graduated (BS degree) in math from West Virginia State University with distinction (known as summa cum laude). Her skills in analytic geometry and numerical analysis became crucial to the early success of NASA.

A real story: In 1962, NASA used its first electronic computers (IBM's) to plan John Glenn's (the first American astronaut to orbit earth) orbital flight. However, the technology was new and erratic. So, Glenn famously refused to fly unless Katherine personally verified the computer's numbers by hand. He told the Engineers: *"If she says they're good, then I'm ready to go."*

To the best of my knowledge these colored people did not earn a PhD during their career – partly due their financial/family commitments; however, they successfully led generations of white Scientist/Engineers from US's top notch Universities including MIT and Harvard. The detailed stories of her scientific journey can be read from her autobiography: "Reaching for the Moon: The Autobiography of NASA Mathematician Katherine Johnson".



Obama  
awarded Katherine the Presidential  
Medal of Freedom, the highest civilian  
honour in the United States.



John Glenn (1921-2016) near to  
Friendship 7 Spacecraft.

# Broken Images

## 2025-26

Dr. George Zachariah  
Prof. in Charge of Publications

The Gen 2 in 'delulu'  
Searching for 'solulu'  
Has to move ahead  
While business of war thrives.  
Life being in a flux  
Gen Alpha, then Gen Beta  
Finds Ganga polluted  
Carrying heaven- seekers.  
Karun, Tigris

Euphrates and Jordan  
Turn bloody, long after Nile.  
Cloud bursts in the mountains,  
Droughts in villages  
Nature too imitates  
The extremities of humans!

La Nina fades  
Ushering in El Nino  
Causing scorchers,  
Burning minds.

In the drama of life  
'Men have lost reason'  
Cries again Mark Antony!  
Wild animals on rampage  
Humans turn robotic.

Before the smoothening spring  
Of the hills dries up  
Withdraw into the cave-  
Yo veda nihitam guhayam  
Satyam Jnanam anantham Brahman  
The alpha and omega!

# Our Habitual Brain

**Dr. Shobha Teresa George**  
**Consultant Psychotherapist,**  
**College Student Counselor**

Ever wondered why we form habits and how to replace it? Then read this.

Our brain is constantly scanning to work more efficiently; i.e. less expenditure of energy and more output. Because of this it automates patterns we do repeatedly, so that, we do not have to put any conscious thought into our daily routine. Each time we repeat a pattern we strengthen the neural pathway of that behaviour so that it becomes more automated. This is what enables us to take a walk in the morning along the same pathway every day. This repetitive pattern happens because of our Basal Ganglia situated deep inside the centre of our brain, the auto pilot system of our brain. When we do a behaviour repeatedly, the basal ganglia takes note and encodes the pattern as an automatic routine. This consistency is not rigidity but a prudent allocation of resources. Such a function is important so that our thinking brain is free to focus on more urgent matters. Imagine having to wake up every morning, having to consciously think about how to make the bed, how to brush our teeth to how to dress up for college! By the time we reach college we would be so exhausted.

According to research, habits become automatic after a period of repetition lasting 66 to over 250 days, after which point they no longer require prefrontal oversight. This frees cognitive resources for high-level functions like creativity, connection, learning, and problem solving. This structure is called cognitive scaffolding. Hence routines are not monotonous rather they are underlying framework that enables other activities. The idea is to make a decision about a habit to inculcate and let the routine [repetition] to take over.

Repetition and Consistency are the key factors to habit formation. The more repeatedly and regularly we do a behaviour, the faster it becomes automated. Simple behaviours [like drinking water] take lesser time, while complex tasks [like exercising] take longer. Occasional relapse is bound to happen but consistently getting back on track is the key. Create small manageable changes which require less effort. Combining new habits with existing routines are also helpful, like drinking water and exercising after brushing teeth in the morning.

According to Charles Duhigg, the author of ' Power of Habits', Habits are developed by a loop of 3 elements: 1] a Cue 2] Routine 3] Reward.

Cue is the trigger – it can be a specific time or location or people –like returning home from work, being at the club, company of certain friends etc.

Routine is the pattern – what we do repeatedly - like having a particular drink or food, checking the phone, going for a walk etc.

Reward is the pleasure we get from the behaviour – like the endorphin rush of exercising, or dopamine high of eating sweets, alcohol, gaming or social media indulgence.

Let us take the example of phone usage

The Cue could be boredom or notification sounds

The Routine is picking up the phone and checking the messages or scanning the social media

The Reward is the pleasure we get from dopamine high due to social connection or new information.

With each repetition of this loop the neural pathway in our brain becomes stronger and the behaviour becomes more automated. Eventually we find ourselves reaching for the phone even without thinking.

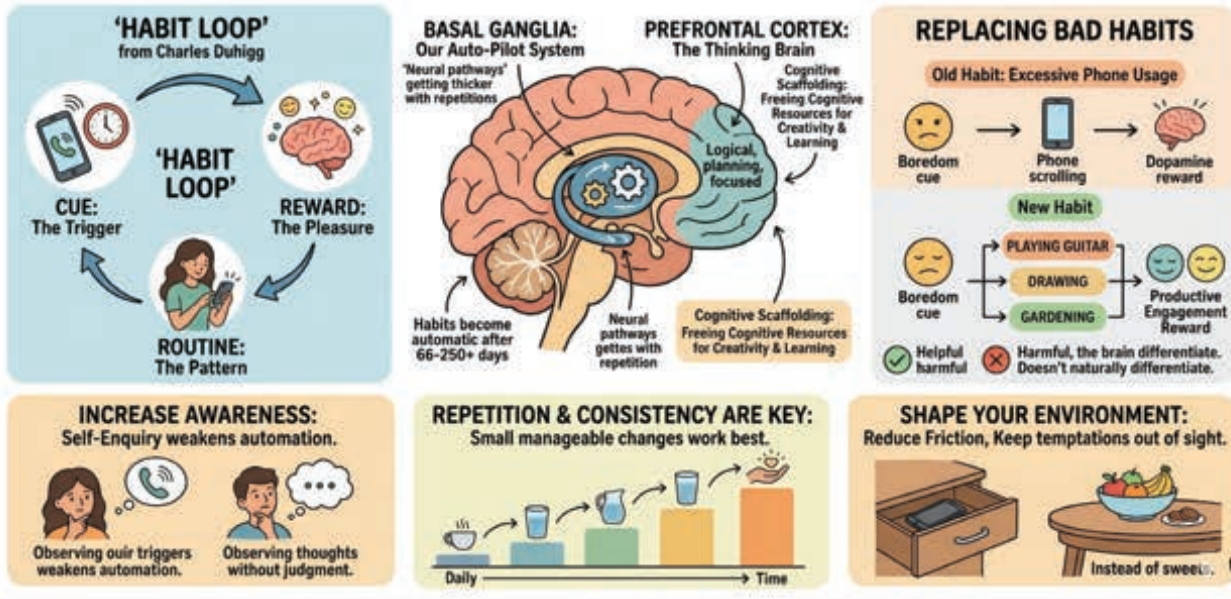
Let us look at what is happening in the brain and how habits are formed.

Our brain does not distinguish between what is helpful or harmful for us. By default it is automated to perceive and follow what is familiar and rewarding. Whatever we habitually do gets repeated whether we drink water, coffee or alcohol when thirsty or stressed. Here the brain is only automating behaviour that seems familiar and rewarding without distinguishing between whether it beneficial or harmful for us.

This value neutral method of forming habits is very important to understand because dopamine rich rewarding habits are difficult to break like sweets, social media, gaming etc. Dopamine is considered to be a reinforcement chemical because of the pleasure or reward it brings. The reinforcement power of dopamine is so strong that our willingness or will power alone will not work in breaking a force of habit. Here we are pitching our thinking brain [prefrontal cortex] against the powerful automatic systems [basal ganglia], and in the contest, the automated system usually wins.

Habits cannot be eliminated, they are stowed away and replaced by new habits. The brain files away the old habits in case it is needed again. Think of it in terms of beneficial habits we used to do, like going for swimming or playing the guitar or indulging in art works. We do not forget old habits, when pressured the brain can reactivate old patterns. Substituting or replacing bad habits with new healthy habits is the only way to get out of unhealthy habits.

# UNDERSTANDING OUR HABITUAL BRAIN



How to replace old habits and form new habits:

Let us explore the habit of excessive phone usage. The first step towards changing old habits is, to become AWARE of our habits without judgement. Start by observing our phone usage more closely. Observing with curiosity not frustration is the important point. Observing the cues and reward we get in everyday habits. This awareness is the first step to change.

If we find ourselves reaching out for the phone out of boredom

- 1] what happened right before I reached out to pick the phone [cue]. I was bored.
- 2] what exactly am I doing [routine]. Reaching out for the phone.
- 3] what pleasure am I getting from it [reward]. Information, entertainment, wins.

Hence by habit when I am bored, I reach out for the phone because of the entertainment it provides.

This way of self - enquiry helps to bring the habit into Conscious Awareness. Essentially this awareness alone weakens the automation of the basal ganglia and shifts the power to the thinking brain to take action.

We can also use dopamine for our advantage. We can get more pleasure and satisfaction from our own productivity of using our mind and body like singing, playing music, games, dancing, working out, doing gardening, art or craft work etc. Such activities would turn out to be more rewarding, because it drives the parts of the brain involved in motivation, focus and satisfaction. Intense engagement in productive work has a calming effect on the brain unlike dopamine high from addictions because it allows for high-level skill performance, reducing stress and increasing creativity. When bored reach out to a book to color or draw, a guitar to play, or a ball to bounce. Something that involves our mind and body usage, rather than getting pleasure from someone else's productivity on the screen.

When it comes to the cue, routine and reward, the trick is to align the cue and reward and change the routine. That is, when bored [cue] I can get pleasure [reward] from playing, singing, dancing, gardening or art work [routine]. Have two or three activities to do as a backup.

Our environment also plays a huge part in shaping habits from the temptations we get. Many of our habits are developed by what we surround ourselves with. If we want to break off from excessive phone usage, keep it somewhere out of sight. If we want to stop eating sweets, do not have it in our house. This will help to reduce the friction between bad habits and creating new habits. The conflict between will power and automation. We do not have to make huge changes but small changes are equally effective. CONSISTENCY is the key. Habits are created through repetition not intensity or force.

Consistent daily small habits like sleeping early, eating right, exercising, meditation and creativity is bound to increase energy and focus, improve mood and confidence; hence better quality of life.

The Secret of our satisfaction and success is found in our Daily Routine.



# Miles Away, Memories Forever

**Dr.Soumya A.V.**  
**Assoc. Prof., EEE**

Traveling is always a meaningful experience, whether it is done alone or shared with friends. For me, traveling has often been a way to step away from life's pressures, leaving behind worries for a while and embracing a fresh outlook. However, some journeys become much more than a simple escape. They beautifully combine professional development with personal moments, creating memories that remain treasured for a lifetime.

My recent visit to Indonesia for an academic conference was one such memorable journey. Traveling alongside my friend, Pretty Tom, the experience evolved into a perfect blend of learning, exploration, and shared moments that transformed an ordinary conference trip into an unforgettable story.

Indonesia, a developing nation rich in culture, tradition, and diversity, welcomed us with both excitement and challenges. Since we were unfamiliar with the local language, communication became difficult, and most taxi drivers barely understood English. Finding transportation to our hotel turned out to be quite a task. After several attempts and with the help of translation apps and basic English, we finally managed to reach the hotel, completely exhausted and very hungry. The journey from the airport to the hotel felt quite long, and along the way, the sights reminded us of what our own country looked like years ago. The roads, local neighborhoods, and everyday scenes reflected a sense of simplicity and development in progress, offering us a glimpse into Indonesia's evolving landscape. To make things more challenging, we had arrived much earlier than the scheduled check-in time, which meant waiting for hours before our room was ready.

After grabbing a quick brunch from McDonald's and catching up on much-needed sleep, we stepped out again around 5 p.m. To our surprise, the surroundings looked as though it was already 8 p.m., as darkness had fallen much earlier than we expected. Curious to explore, we walked through the lively streets and eventually came across a shopping mall. After enjoying dinner there, we made our way back to the hotel after a long but pleasant walk. Despite the exhaustion from travel, the day ended peacefully, leaving us excited for what the rest of the trip had in store.

The next day was dedicated to the conference, and we traveled to University of Malaya. It was a wonderful experience interacting with the students and faculty members at the university, whose warmth and hospitality made us feel welcome. The conference was jointly organized by University of Malaya and Vellore Institute of Technology. It was inspiring to witness the exchange of knowledge, ideas, and cultural perspectives between participants from both countries. The event highlighted how academic collaborations can bridge geographical boundaries and create meaningful global connections.

The lunch session and gala dinner gave us a wonderful glimpse into the rich culture of Malaysia. The traditional cuisine, warm hospitality, and vibrant atmosphere made the experience truly special. What stood out the most were the cultural performances during the gala dinner, which were absolutely mesmerizing. The music, dance, and artistic expressions beautifully showcased the heritage of the country and left us completely amazed. It was truly a mind-blowing experience that added a memorable cultural touch to our academic journey.

The second day concluded with valuable learning experiences and a deeper appreciation for cultural diversity. It was a day filled with insightful discussions, meaningful interactions, and memorable moments that broadened our perspectives both academically and personally.

The final day of our trip marked our return journey, which came with an exciting twist a 24-hour layover at Singapore Changi Airport. What could have been a tiring wait turned into another memorable adventure as we explored the airport, known for its world-class facilities and vibrant attractions. One of the things that fascinated me the most during our layover at Singapore. Changi Airport was the mesmerizing "Plant Sonata".

Another attraction that truly captivated me during our layover at Singapore Changi Airport was the beautiful Sunflower Garden. Surrounded by vibrant blooming sunflowers and overlooking the airport runway, the garden offered a refreshing and peaceful escape amidst our long journey. Spending time there was incredibly relaxing, and it added a cheerful, memorable touch to the end of our trip.

Although our layover in Singapore was exciting, it also came with its own challenges. The currency exchange made everything feel quite expensive, and we soon realized that we didn't have enough money for food. As a result, we had to manage with very little and spent almost an entire day feeling hungry. Exhaustion from the long journey added to the struggle, and resting in airport lounges while trying to catch some sleep became another unexpected experience. Though difficult at the time, it became one of those travel memories that we now look back on with laughter and resilience.

We finally arrived at Trivandrum International Airport, thinking our journey had come to an end—but as always, travel had one final surprise waiting for us. This time, it was a happy twist in Pretty's life, making the end of our trip even more special and memorable. Seeing her happiness added a beautiful conclusion to our adventure, and I couldn't have been happier for her. Wishing her nothing but joy and blessings in the days ahead.

Like every journey, this one too became a collection of unforgettable memories filled with experiences, fun, unexpected challenges, and valuable lessons. From academic achievements and cultural exchanges to travel adventures and moments of laughter, the trip taught us that every journey has something unique to offer. It was not just a trip to attend a conference, it was an experience that enriched us with learning, friendship, and memories that will be cherished for years to come.

***Travel, explore, and cherish every moment life offers.***



# Leadership Interview with Mr. Sarath Chandran, the Technology Leader.



Mr. Sarath Chandran

Interviewer

Dr Nidhi MB, Professor MED

## Brief Profile

**Sarath Chandran** is a distinguished technology leader with over 25 years of experience driving engineering excellence and digital transformation across the globe. With a career spanning India, the US, Europe, the Middle East, and Australasia, he brings a uniquely global perspective to building scalable, future-ready technology ecosystems.

Renowned for establishing world-class R&D and product engineering centers, Sarath has pioneered the development of AI-driven, cloud-native platforms that bridge the gap between emerging tech and measurable business impact. From designing multi-cloud and edge computing platforms to leading large-scale data modernization initiatives, he has consistently built secure, agile environments that accelerate innovation.

Beyond his technical mastery, Sarath is a passionate mentor and collaborative leader known for building high-performing, cross-functional teams. He remains at the forefront of the "Deep-Tech" frontier, actively exploring the synergies between AI, IoT, 5G, drones, and satellite internet. Driven by a relentless curiosity, Sarath continues to design connected, intelligent solutions that are transforming global industries and shaping the future of technology.

**Q: You've driven Engineering excellence across aviation, shipping, and deep-tech. What is the single most important lesson you've gathered from leading such diverse global transformations?**

**A:** The biggest takeaway is that digital transformation is 10% technology and 90% people. Whether I was consulting at Infosys and EY or leading at Maersk and IndiGo, I realized that transformation is a 'team sport.' You can't just mandate change; you have to co-create a vision that people want to follow. It's about moving from 'doing digital' to 'being digital' by fostering a culture where every Engineer feels like an architect of the future.

**Q: Could you share a 'defining moment' from your time in the Shipping and Logistics sector? What was your most satisfying contribution to the industry's evolution?**

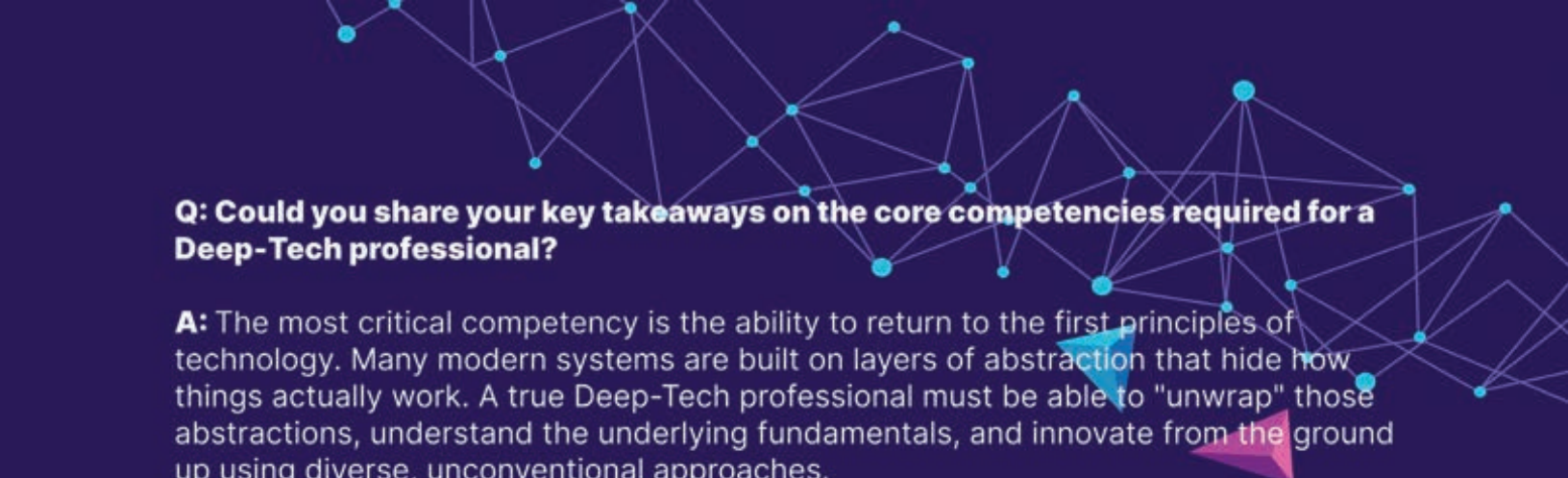
**A:** My time at AP Moller Maersk was particularly rewarding. We transformed a century-old global conglomerate into a lean, 'digital-first' integrated logistics provider. My most satisfying contribution there was navigating the complexities of a legacy global business model and simplifying it through data and technology. Later, at IndiGo, we transitioned from being just an airline to becoming an omni-channel travel retailer. Ultimately, the most rewarding part wasn't just the code or the cloud migration—it was seeing how digitizing the 'core' reduced friction for millions of travellers.

**Q: As we move deeper into the AI era, how is your approach to digital transformation evolving?**

**A:** We are witnessing a fundamental pivot from 'Digital-First' to 'AI-First.' In the past, transformation was about digitizing manual processes and rule-based automation. Today, we are building Agentic AI systems—autonomous ecosystems that don't just follow instructions but reason, learn, and adapt. The focus now is on moving beyond 'chatbots' to 'agents' that can manage complex business operations independently, allowing humans to focus on high-level strategy and creativity.

**Q: Could you share your insights and the lessons learned in overcoming the challenges of establishing a Deep-Tech R&D center in India?**

**A:** Historically, the Indian IT industry has been heavily skewed towards services. While our emerging domestic market has fostered more product-oriented companies, these are often focused on digital commerce and B2C segments. The first major challenge I faced was "selling" the idea of a Deep-Tech center in India - particularly in a Tier-2 city like Trivandrum. I overcame this by presenting research supported by strong data and a solid business case to dismantle those biases. The next hurdle was executing to perfection while battling the scepticism I mentioned earlier. Finally, the most critical challenge was talent acquisition. We solved this through a dual strategy: hiring "smart-experienced" professionals for leadership, paired with a highly efficient campus recruitment program. By focusing on a candidate's learning ability, foundations in tech and attitude rather than just their current skillset, we successfully built a high-performing, sustainable Deep-Tech ecosystem.



**Q: Could you share your key takeaways on the core competencies required for a Deep-Tech professional?**

**A:** The most critical competency is the ability to return to the first principles of technology. Many modern systems are built on layers of abstraction that hide how things actually work. A true Deep-Tech professional must be able to "unwrap" those abstractions, understand the underlying fundamentals, and innovate from the ground up using diverse, unconventional approaches.

**Q: You have been at the helm of world-class R&D and product engineering centers. Given the recent policy shifts, what are your insights on the sustainability and future of AI?**

**A:** AI is undoubtedly a transformative technology with a profound global impact, but its long-term success depends entirely on how we manage its foundation. Industry leaders often describe AI through a five-layer architecture: Energy, Chips, Infrastructure (Data Centers), Models, and Applications. Notice that the entire stack rests on the Energy layer. How we generate and manage power for these systems will be the most critical factor in AI's evolution. The deciding factor for the "AI era" won't just be the sophistication of the models, but rather our ability to scale without compromising the planet or our humanity. As global policies begin to catch up with the rapid growth of data centers, watching how we balance computational power with environmental responsibility will be the defining challenge of this decade.

**Q: Given your deep-tech expertise and cross-industry exposure, how is AI transforming the supply chain and logistics landscape? What areas should young graduates focus on within these emerging technologies?**

**A:** Having spent nearly a decade in supply chain and logistics, I find it to be one of the most fascinating sectors because it represents the perfect convergence of 'physical flow' and 'information flow.' The ultimate challenge we are solving with AI is the seamless synchronization of these two worlds - ensuring that goods move from origin to destination with maximum efficiency and minimal friction. For graduates looking to enter this field, I suggest focusing on three key pillars:

- **Agentic AI & Optimization:** Moving beyond simple tracking to autonomous systems that can predict disruptions and reroute global trade in real-time.
- **The IoT & Edge Computing Nexus:** Understanding how sensors and 5G allow us to process data at the "edge" (on a ship, in a warehouse, or on a drone) to make split-second decisions.
- **Digital Twins:** Learning how to create virtual replicas of entire supply chains to simulate "what-if" scenarios before they happen in the physical world.

My advice is to focus on the interoperability of these technologies. Don't just study AI in a vacuum; study how it breathes life into the physical machines that move the world.

**Q: Unlike many foreign universities, the gap between industry challenges and academic institutions in India remains significant. How would you suggest we bridge this divide?**

**A:** I completely agree; bridging this gap requires a fundamental shift in curriculum, learning methodologies, and, most importantly, the foundational mindset of our institutions. In my view, we need a clearer distinction between purely academic or research-oriented institutions and professional education institutions. Currently, many of our professional colleges are still heavily driven by a traditional academic mindset. To prepare students for the global stage, we must pivot toward an industry-first mindset. This means moving beyond rote learning to focus on real-world problem-solving. We need to cultivate a unique culmination of two things:

- A Builder Mindset: The technical curiosity and drive to actually create, prototype, and fail fast.
- A Growth Mindset: The resilience to adapt to the rapid pace of technological change.

Only by integrating these "industry-standard" behaviors into the classroom can we ensure that graduates aren't just degree-holders, but high-impact contributors from day one.

**Q: In your experience, what are the most significant gaps you see in young graduates coming out of engineering institutions today?**

**A:** It goes back to the three pillars I mentioned earlier: structured problem-solving, a 'builder mindset,' and a 'growth mindset.' While many graduates have strong theoretical knowledge, there is often a lack of "first-principles thinking" - the ability to take a messy, real-world problem and break it down into a technical solution. We need Engineers who don't just know how to use tools, but who have the curiosity to build from scratch and the resilience to grow as the technology evolves. The gap isn't usually in their "GPA," but in their ability to transition from being a student of technology to being an architect of it.

**Q: What is your perspective on the 'flexible job' and 'work-near-home' initiatives recently introduced? Additionally, how do you approach workforce diversity within your organization?**

**A:** Regarding flexibility, I believe it works well for certain roles, but Engineering is a different beast. If you want to be an Engineer who solves "hard problems" and drives real impact, there is an undeniable power in physical collaboration. High-level innovation requires an environment where like-minded individuals can brainstorm, iterate, and solve complex challenges in real-time. An office designed for collaboration isn't just a workplace; it's an incubator for the kind of "builder mindset" that deep-tech demands. On the subject of diversity, it is a core pillar of my leadership philosophy. In my experience across global markets, I've seen that the best solutions come from cross-functional teams with diverse backgrounds, perspectives, and problem-solving approaches. True diversity isn't just a metric; it's about bringing different "mental models" together to ensure we aren't building in a vacuum.



**Q: Could you share any upcoming projects or focus areas in the realm of Intelligent Solutions?**

**A:** While I can't disclose specific proprietary projects, I am deeply fascinated by the massive influx of data being generated by the next generation of hardware—from high-resolution imaging and IoT sensors to drones and satellite feeds. We are moving into an era where we can finally synthesize text, visual data, and sensor telemetry in real-time. My focus is on leveraging emerging AI models to move beyond simple data collection and into autonomous decision-making. By converging these multi-modal data streams, we aren't just creating "smart" tools; we are building intelligent ecosystems that generate exponential value and solve real-world problems at a scale previously thought impossible.

**Q: Could you shed some light on current sustainable and green initiatives within both the national and international contexts?**


**A:** In my view, a significant portion of current green initiatives - both nationally and internationally - is unfortunately more about 'greenwashing' than driving real, measurable impact. However, the transition toward Industry 5.0 is rapidly changing that. Unlike previous shifts, Industry 5.0 leverages AI and deep-tech to provide extreme transparency. This data-driven era will quickly expose superficial claims, forcing organizations to move beyond peripheral gestures and toward tangible, audited outcomes. We are entering a phase where sustainability isn't just a PR strategy; it is a core operational requirement that will be measured by the very AI systems we are building.

**Q: What are your views on the global opportunities available to young Engineering graduates today?**

**A:** In my view, the internet and AI have acted as the great equalizers, creating a level playing field for talent across the globe. While there may be immediate fluctuations due to the current geopolitical environment, I believe these hurdles are temporary. The "borderless" nature of deep-tech is here to stay. However, I would also offer a different perspective: looking "global" is no longer the only path to a high-impact career. There are more than enough complex, large-scale problems to solve right here in our local market. For a young Engineer, the opportunity to build solutions for India's unique challenges - be it in logistics, energy, or infrastructure - can be just as rewarding, if not more so, than working abroad. Success today is defined by the scale of the problem you solve, not just the geography in which you solve it.

**Q: How can disruptive technologies enable and expand opportunities within a circular economy?**

**A:** This is one of the great paradoxes of our technological evolution. While technology has unlocked immense value and convenience, it has also placed unprecedented pressure on our natural resources. The challenge now is to use the very tools that created this pressure to solve it. Disruptive technologies like AI, IoT, and Blockchain are the primary enablers of a true circular economy.



They allow us to move from a "take-make-waste" model to a "reduce-reuse-recycle" one by providing the data needed to track a product's entire lifecycle. Whether it's using AI to optimize resource recovery or IoT to extend the life of industrial machinery, the goal is to decouple economic growth from resource consumption. In the end, the most "disruptive" thing technology can do is help us build a sustainable, self-sustaining world.

**Q: You have a reputation for hand-picking the right talent to match evolving industry needs. What is your advice to young professionals on building their skill sets and tracking industry trends? Are there specific platforms, like MuLearn, that you would recommend?**

**A:** When I evaluate talent, I look beyond just a CV. I use what I call the AAA Framework, which serves as the foundation for any successful engineering career:

- **Appetite:** A relentless hunger to learn, grow, and stay curious. In a world where tech stacks change every 18 months, your "learnability" is your most valuable asset.
- **Aptitude:** The ability to analyze problems effectively and translate that analysis into high-impact solutions. It's not just about knowing the code; it's about knowing how to apply it to a "hard problem."
- **Attitude:** This is the most critical. It's your general approach to life - how you navigate difficult situations, how you collaborate with a team, and how you maintain resilience under pressure.

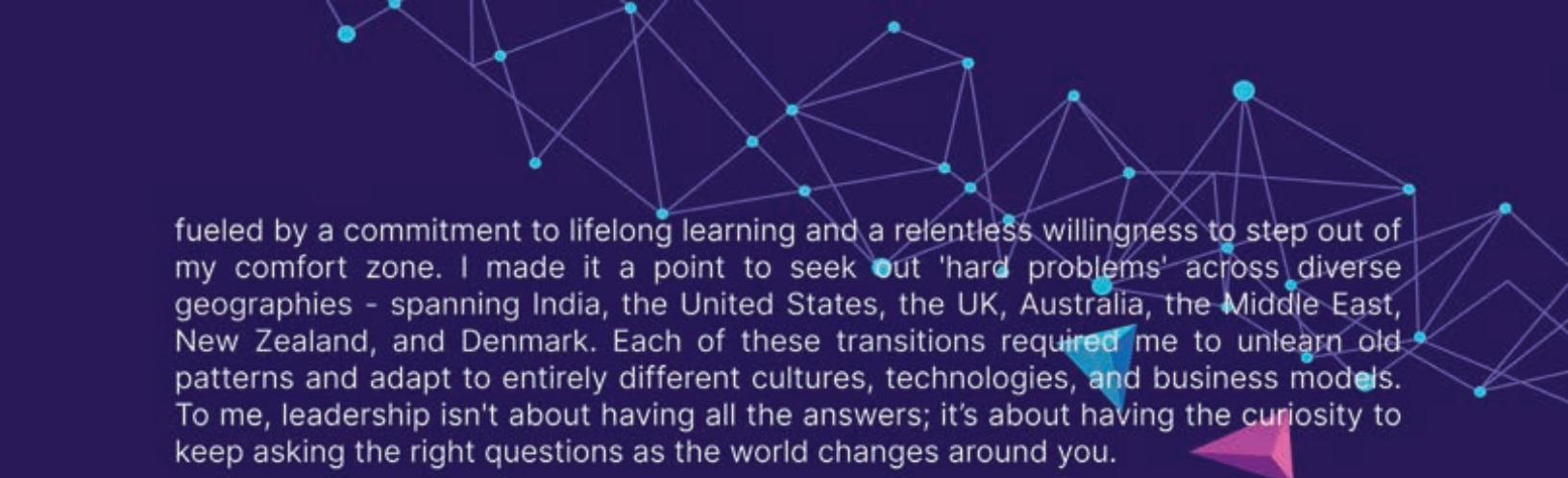
To stay ahead of trends, my advice is to immerse yourself in peer-to-peer learning communities. Platforms like MuLearn are excellent because they foster a "builder culture" through micro-learning and collaboration. Don't just read about trends in isolation - join forums, participate in hackathons, and contribute to open-source projects. The best way to track the industry is to actively build within it.

**Q: What is your message for Engineering aspirants in the AI era?**

**A:** At its core, Engineering has always been about solving problems, building things, and ensuring they work to create a meaningful impact. I don't believe the fundamentals of Engineering will change in the AI era; however, how we engineer will definitely evolve. My message to Emerging Engineers is this: do not fear the technology—master it. Focus on leveraging the latest tools, including AI, to amplify your capabilities. Shift your focus from the "process" to the "purpose." Use these powerful technologies to build solutions that address the real challenges facing our lives and humanity as a whole. AI is a co-pilot, but the vision, the ethics, and the drive to create a better world must come from you.

**Q: Looking back at your journey, how did you successfully transition from being a student to becoming a global technology leader?**

**A:** The transition wasn't a single leap, but a process of continuous evolution. I've always believed that an Engineering degree is the starting line, not the finish line. My journey from the classroom to leading global teams at Maersk and IndiGo was



fueled by a commitment to lifelong learning and a relentless willingness to step out of my comfort zone. I made it a point to seek out 'hard problems' across diverse geographies - spanning India, the United States, the UK, Australia, the Middle East, New Zealand, and Denmark. Each of these transitions required me to unlearn old patterns and adapt to entirely different cultures, technologies, and business models. To me, leadership isn't about having all the answers; it's about having the curiosity to keep asking the right questions as the world changes around you.

**Q: Who are the role models who have influenced you the most?**

**A:** I don't subscribe to the idea of a single role model; instead, my focus has always been on becoming a better version of myself every day. That said, I have learned and adopted valuable traits from many people throughout my journey. This includes the foundational values from my parents and family, the shared growth with friends, and, most significantly, the professional wisdom gained from the many exceptional leaders and colleagues I've had the privilege to work with firsthand. My "role model" is essentially a composite of the best qualities I've observed in others.

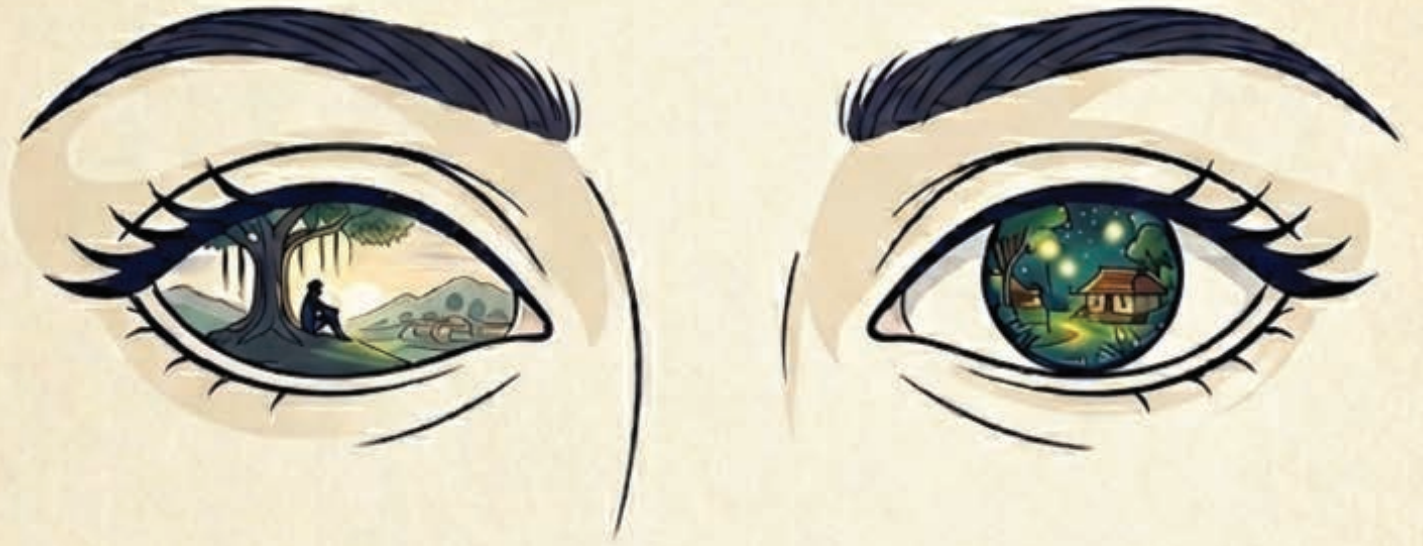
**Q: How would you describe yourself in a single word or phrase?**

**A:** The Seeker (*Because in technology and in life, the moment you stop seeking new knowledge, new challenges, and new perspectives is the moment you stop growing.*)

**Q: Which books have most significantly moulded your skills and leadership approach?**

**A:** My perspective has been shaped by a diverse range of thinkers. Each of these books offered a different lens through which I view technology and humanity:

- **The Tao of Physics by Fritjof Capra** - For understanding the deep parallels between modern science and philosophical thought.
- **Getting Things Done by David Allen** - The foundation of my approach to personal productivity and organized execution.
- **The Trusted Advisor by Robert M. Galford** - Foundations of my approach to leadership or consulting on how to build authentic, long-term professional relationships.
- **Thinking, Fast and Slow by Daniel Kahneman** - It fundamentally changed how I understand human decision-making and cognitive biases.
- **Sapiens: A Brief History of Humankind by Yuval Noah Harari** - This provided a much-needed macro-perspective on the evolution of human systems and structures, presented in a format that is both easy to understand and deeply memorable
- **Mindset: The New Psychology of Success by Carol Dweck** - This reinforced my belief in the "Growth Mindset"—the idea that our abilities are developed through dedication and hard work, not just innate talent.



# മനസ്സിന്റെ മിഴികൾ

MANASSINTE MIZHIKAL

# മഴവില്ല്

Ms. Saiga Ann Jacob  
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എന്റെ വീട്ടുമുറ്റത്ത്  
മഴ പെയ്ത ഒരു ദിവസം  
ആകാശത്ത് ഞാൻ കണ്ട  
ഒരു മഴവില്ല്  
എന്റെ മഴവില്ല്.....

പപ്പയുടെ സ്നേഹനോട്ടം  
അമ്മയുടെ വാത്സല്യം  
ചേച്ചിയുടെ ചെറുപുഞ്ചിരി  
അതിലെ ഓരോ നിറങ്ങളായി മാറി എനിക്ക്.....

ഓരോ നിറത്തിലും  
ഒരു സ്കൂൾ കാല സ്വപ്നം  
മധുരമുള്ള നാരങ്ങ മിഠായി  
കളിപ്പാട്ടങ്ങളുടെ സന്തോഷം  
അപ്പുപ്പൻതാടിയുടെ കുളിർമ  
പൂക്കളുടെ മണവും, പറക്കുന്ന ചിത്രശലഭങ്ങളും  
പുവിൽ മയങ്ങുന്ന പുമ്പാറ്റകളും  
മരച്ചില്ലയിൽ കളിക്കുന്ന കിളികളും  
ഓർമ്മയിലെ മഴക്കാലം, ഓർമ്മയുടെ  
കടലാസ് തോണിയും അതിൽ  
അലങ്കരിച്ച കുഞ്ഞു മഞ്ചാടിക്കുരുകളും  
കളികളിലെ ചിരിയും നിറങ്ങളായി തിളങ്ങി

സമയം പറന്നുപോയി  
ഞാൻ വളർന്നു  
എന്നാലും എന്റെ കുഞ്ഞുമനസ്സ്  
ആ നല്ല പഴയ ഓർമ്മകളിൽ  
മഴവില്ല് മായ്ചാലും  
സ്വപ്നങ്ങൾ മാധുനിക  
എന്റെ ഹൃദയത്തിൽ ഇന്നും  
അവ നിറങ്ങൾ ആയി ജീവിക്കുന്നു..



# വിദ്യാർത്ഥി പ്രശ്നങ്ങളും മാനസികാരോഗ്യവും

Sabeesh Peter  
Asst. Librarian

മനുഷ്യ ജീവിതം പ്രശ്നങ്ങൾ നിറഞ്ഞതാണ് ഓരോ പ്രശ്നങ്ങളെയും അതിജീവിക്കാനുള്ള മനകരുത്ത് നേടുന്നവർ ആചര്യന്മാരും അല്ലാത്തവർ ജീവിത ദുഃഖത്തിന്റെ തീ ചുളയിൽ പിടിച്ചുനില്ക്കാൻ ആകാതെ തളരും. കുറുതീർന്ന സ്വർണ്ണം പോലെ എരിതീയില് കിടന്ന് പൊള്ളലേല്ക്കാനും പണിക്കാരന്റെ തട്ടും മുട്ടും ഏല്ക്കാനും തയ്യാറല്ലാത്തവന് ഒരിക്കലും പൂർണ്ണനാകാൻ കഴിയില്ല. ജീവിത പ്രശ്നങ്ങളാകുന്ന തീയില് മുളച്ചതുകൊണ്ടാണ് പലരും ഉന്നത നിലകളിൽ എത്തിയത്. കനത്ത വെയിലിലും വാടാതെ തകരാതെ, തളരാതെ പിടിച്ചു നില്ക്കുമെങ്കിൽ ഇന്ന് അസാമാന്യ കരുത്ത് ആവശ്യമാണ്. ജീവിതത്തിൽ ഇത്തരത്തിലുള്ള പൊള്ളുന്ന വെയിലും കാറ്റും ഒക്കെയുണ്ടാകും എന്നാൽ ഇതിന് മുന്നിൽ തലകുനിക്കാതെ പൊരുതുക.

പ്രശ്നങ്ങളെ അഭിമുഖീകരിച്ചുകൊണ്ട് സാഹചര്യങ്ങളോട് പൊരുത്തപ്പെട്ടുപോകാനുള്ള കഴിവാണു മാനസികാരോഗ്യം. നിർഭാഗ്യവശാൽ ഇന്നത്തെ തലമുറ സാഹചര്യങ്ങളുടെ സമ്മർദ്ദം നിമിത്തം ചിലപ്പോൾ പ്രശ്നങ്ങളെ സ്വന്തമായി കരുതി കൂടുതൽ ആഴത്തിലുള്ള വിശ്വാസം ആർജ്ജിച്ചെടുക്കാൻ പരാജയപ്പെടുന്നു. പെട്ടെന്നുള്ള സമ്മർദ്ദം താങ്ങാതെ വൻ ചതിക്കുഴികളിൽ ചാടുന്നവർ ധാരാളം ഇത്തരത്തില് ജീവിത പ്രശ്നങ്ങളെ കൈകാര്യം ചെയ്ത് ഭാവിശോഭനമാകാൻ ആസ്തിതമായ മാനസികാരോഗ്യം വാർത്തെടുക്കാൻ കഴിയണം.

ജീവിതത്തിലുണ്ടാകുന്ന പ്രശ്നങ്ങളെ താഴെ പറയുന്ന ക്രമത്തിൽ വേർതിരിച്ചിരിക്കുന്നു

## 1. പ്രശ്നങ്ങളില്ലാത്ത ഒരു ജീവിതം ഗ്രഹിക്കുന്നവർ:-

ഇത്തരക്കാർ പ്രശ്നങ്ങളെ ഭയപ്പെടുന്നവരാണ് ഒരു കാര്യത്തിനും മുന്നിട്ടിറങ്ങില്ല. പ്രശ്നങ്ങളെ അഭിമുഖീകരിക്കാനുള്ള മടി മൂലം അലസരായി മാറും. മറ്റുള്ളവരെ ആശ്രയിച്ചു കഴിയുന്നവരാണ് പ്രായപൂർത്തിയായാലും മാതാപിതാക്കളുടെ മുന്നിൽ കൈനീട്ടി ജീവിക്കുന്ന ഇവർ അന്തസ്സും അഭിമാനവും ഇല്ലാതെ ജീവിതം തള്ളിനീക്കും. സ്വന്തമായി ചെറിയ വരുമാനം എങ്കിലും നേടി മുൻ നിരയിലേക്ക് വിദേശ രാജ്യങ്ങളില് ചെയ്യുന്ന രീതിയിൽ ഒരു ജോലി സംസ്കാരം രൂപപ്പെടണം. കഷ്ടപ്പെടുന്നവനേ ജീവിതത്തിൽ



വിജയിക്കാൻ സാധിക്കൂ. ഏത് സസ്റ്റാർട്ടപ്പുകളും തുടങ്ങിയാലും അതിന്റെ വിജയം ക്രമാനുഗതമായി ആണ് അല്ലാതെ ഒറ്റ രാത്രികൊണ്ടല്ല എന്ന സത്യം മനസ്സിലാക്കണം.

**2.പ്രശ്നങ്ങളിൽ നിന്നും ഓടിയൊളിക്കുന്നവർ:-**

ജീവിതത്തെ പേടിയാടെ നോക്കുന്ന ഇത്തരക്കാർ ആത്മഹത്യവാസനയുള്ള വിഷാദ രോഗികളായി മാറും. ഏതെങ്കിലും ഒരു പ്രശ്നം വഷളാകുന്നതു വരെ മനസ്സിൽ മാത്രം സൂക്ഷിക്കുന്ന ഇത്തരക്കാർ ആശയവിനിമയ ശരിയാം രീതിയിൽ നടത്താതെ ഒരു പൊട്ടിത്തെറിക്കു മുന്നിൽ തളർന്നു പോകും. ചെറിയ പ്രശ്നങ്ങളെ ചിന്തിച്ച് ചിന്തിച്ച് വലിയ സങ്കീർണ്ണതയിലേക്ക് എത്തിക്കുന്ന ഇവർ നിസാര പ്രവർത്തികളിൽ അടിപതറും.

**3.ജീവിതത്തിൽ എളുപ്പവഴി തേടുന്നവർ :-**

ജീവിതം കുറുക്കുവഴികൾ നിറഞ്ഞതാണ് എന്നാണ് ഇത്തരക്കാരുടെ ഭാഷ്യം. ജീവിത യാഥാർത്ഥ്യങ്ങളുമായി ഏറ്റുമുട്ടാൻ തയ്യാറാകാതെ ബുദ്ധിമുട്ടില്ലാതെ കിട്ടിയാൽ എടുക്കാം എന്ന വിചാരത്തിലാണ് ഇവർ ജീവിതം മുന്നോട്ടുകൊണ്ടുപോകുന്നത്. ചില വിജയങ്ങള് ഇവർക്ക് ഉണ്ടാകാം. ഉദാഹരണമായി ലോട്ടറി അടിക്കുന്നവനും പരാജയപ്പെടുന്നു. ഏറ്റവും കൂടുതൽ ആത്മഹത്യനിരക്കുള്ള ഒരു സംസ്ഥാനമാണ് നമ്മുടെ കൊച്ചു കേരളം. അതിന് സമൂഹത്തിന്റെ പങ്ക് നമ്മൾ ചർച്ച ചെയ്യാതെ പോകരുത്. അല്പം സന്തോഷത്തിന് നമ്മുടെ യുവതലമുറ വഴിതെറ്റി പോകുന്ന യാഥാർത്ഥ്യം മനസ്സിലാക്കി അവരെ നേർധാരയിലേക്ക് കൊണ്ട് പോയാൽ മാത്രമേ ജീവിതവിജയം നേടാൻ കഴിയൂ.

വിദ്യാർത്ഥികളുടെ നിരവധിയായ പ്രശ്നങ്ങളും കണ്ടെത്തി മുന്നോട്ടു പോകേണ്ടതായിട്ടുണ്ട്. പ്രശ്നങ്ങള് പലതും പൊട്ടിത്തെറിയുടെ പക്കലെത്തുമ്പോള് മാത്രമാണ് അദ്ധ്യാപകരും രക്ഷിതാക്കളും തിരിച്ചറിയുന്നത്. ചില പ്രശ്നങ്ങൾ ആദ്യമേ തന്നെ തിരിച്ചറിയാനുള്ള മന:ശാസ്ത്രജ്ഞന്റെ കണ്ണ് വേണം അദ്ധ്യാപകർക്കും മാതാപിതാക്കള്ക്കും ബുദ്ധിമാപനപരീക്ഷയായ ടെസ്റ്റിനെക്കാള് ഇത് ഗുണം ചെയ്യും. ഇന്നത്തെ തലമുറ 'ഇമോഷണല് ക്വേഷ്യന്റ്' രീതിയ്ക്കാണ് മുന്തൂക്കം കൊടുക്കുന്നത്. എന്ന കാര്യം നാം മറക്കരുത്.

വികസനത്തിന്റെയും പുരോഗമനത്തിന്റെയും ഉപോത്പന്നമാണ് പ്രശ്നങ്ങളും അതിനാല് പ്രശ്നങ്ങള് തീരുകയല്ല സംഗീർണ്ണമാവുകയാണ്. ഒരു കാലത്ത് പത്രവും ടീവിയും സ്വാധീനിച്ചതെങ്കില് ഇന്റർനെറ്റിന്റെ അതിപ്രസരം സമസ്ത മേഖലയെയും കാർന്നു തിന്നുന്ന അവസ്ഥ സംജാതമായ ഭക്ഷണം കഴിക്കുമ്പോഴും കളിക്കുമ്പോഴും ഉറങ്ങുമ്പോഴും ഇന്റർനെറ്റ് വരവ് കാഴ്ചപാടുകള് യുവത്വവും വിദ്യാർത്ഥിസമൂഹവും മാറ്റി ഓരോ നിമിഷവും ജീവിതത്തിലെ പ്രശ്നങ്ങള് കൃത്രിമമാർഗ്ഗമായ ആധുനിക ടെക്നോളജികള് കൊടുത്തു. ഇപ്പോഴത്തെ തലമുറയ്ക്ക് ചുറ്റുപാടും ഉള്ള പ്രശ്നങ്ങളും എ.ഐ അധിഷ്ഠിതമായ പ്രശ്നങ്ങളും ജീവിതഭാഗമാക്കി. ഇത് വൻ പൊട്ടിത്തെറിയിലേക്ക് മാനസിക ആരോഗ്യത്തെ കൊണ്ടെത്തിച്ചു. എന്നാൽ ഇവിടെയും മിടുക്കരായി പുതിയ സാങ്കേതിക വിദ്യകളെ ശരിയാംവണ്ണം മുന്നോട്ടു കൊണ്ടുപോകുന്നവർ വിജയിക്കും.

# ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യുപങ്ച്വർ: സമഗ്ര ചികിത്സ

Abey E. Mathews  
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ആരോഗ്യത്തെക്കുറിച്ച് ഇത്രയധികം ചർച്ചകൾ നടക്കുന്ന ഒരു കാലം മുമ്പ് ഉണ്ടായിട്ടില്ല. വൈദ്യശാസ്ത്രം ഇത്രയധികം പുരോഗമിച്ചിട്ടും, രോഗങ്ങൾ വർദ്ധിക്കുകയും മാനസിക അസന്തുലിതാവസ്ഥകൾ സാധാരണ അനുഭവങ്ങൾ ആവുകയും ചെയ്യുന്നു. ഈ പശ്ചാത്തലത്തിൽ ആരോഗ്യം എന്നത് വെറും രോഗലക്ഷണങ്ങളുടെ അഭാവമാണോ, അതോ ശരീരത്തിലെ സമതുലിതാവസ്ഥയാണോ എന്ന ചോദ്യം പ്രസക്തമാകുന്നു. ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യുപങ്ച്വർ എന്ന ചികിത്സാരീതി ഈ ചോദ്യത്തിന് ഉത്തരം നൽകുന്നു.

## എന്താണ് ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യുപങ്ച്?

പഞ്ചഭൂത തത്വമാണ് ഈ വൈദ്യശാസ്ത്രത്തിന്റെ ചികിത്സയുടെ അടിസ്ഥാനം. ശരീരത്തിലെ പ്രധാനപ്പെട്ട 12 അവയവങ്ങൾ, പ്രപഞ്ചശക്തി സ്വീകരിക്കുന്ന പാതകൾ ശരീരത്തിലുണ്ട്. ഈ ഊർജ്ജ പാതയിൽ പല സവിശേഷതകൾ ഉള്ള ബിന്ദുക്കളും ഉണ്ട്. ഇവയെ യഥാക്രമം അക്യുപങ്ച് ഉർജ്ജപാതകൾ (Meridians) എന്നും അക്യുപങ്ച് ബിന്ദുക്കൾ (Points) എന്നും പറയപ്പെടുന്നു. ഈ ബിന്ദുക്കൾ മനുഷ്യ ശരീരത്തിലെ അവയവങ്ങളുടെ പ്രവർത്തനങ്ങളു മായും, ഹോർമോൺ നിയന്ത്രണങ്ങളുമായും, നാഡീവ്യവസ്ഥയുമായും, മാനസികാവസ്ഥകളുമായും അഭേദ്യ ബന്ധം പുലർത്തുന്നു. ഈ ബിന്ദുക്കളെ ഉത്തേജിപ്പിക്കുകയാണ് അക്യുപങ്ച്‌റിന്റെ ചികിത്സാ രീതി. ഇതൊരു ഹോളിസ്റ്റിക് ചികിത്സയാണ്. രോഗത്തിന്റെ ഏറ്റവും മൂല കാരണത്തിലേക്ക് ഇറങ്ങിച്ചെല്ലാൻ ഈ ചികിത്സയ്ക്ക് സാധിക്കുന്നു.

### രോഗനിർണ്ണയം

ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യുപങ്ച്‌റിൽ കണ്ടും, കേട്ടും, സ്പർശിച്ചുമാണ് രോഗനിർണ്ണയം നടത്തുന്നത്. ഒരു വ്യക്തിക്ക് രോഗം ഉണ്ടെങ്കിൽ അയാളിലെ പഞ്ചഭൂതങ്ങളുടെ ക്രമീകരണത്തിന് വ്യതിയാനം ഉണ്ടാകും. നാഡീ പരിശോധനയിൽ കൂടി ഇത് അറിയുന്നു. നാഡിയുടെ സ്പന്ദനം സ്പർശിച്ച് ശരീരത്തിലെ പഞ്ചഭൂതങ്ങളുടെ ക്രമീകരണത്തിൽ എവിടെയാണ് വ്യതിയാനം സംഭവിച്ചിരിക്കുന്നത് എന്ന് തിരിച്ചറിയുന്നു. ഇതുവഴി രോഗത്തിന്റെ ദിശയും ആഴവും വ്യക്തമായി മനസ്സിലാക്കാൻ സാധിക്കുന്നു.

### ചികിത്സാരീതി

ചികിത്സ അതീവ ലളിതമാണ്. അനുയോജ്യമായ അക്യുപങ്ച് പോയിന്റ് തിരഞ്ഞെടുക്കുകയും ചൂണ്ടുവിരലിന്റെ സാവധാനമായ സ്പർശനം കൊണ്ട് ഉത്തേജിപ്പിക്കുകയും ചെയ്യുന്നു. ഇവിടെ മരുന്നുകളോ, സൂചികളോ, മറ്റു ഉപകരണങ്ങളോ ഉപയോഗിക്കുന്നില്ല. ഒരു ബിന്ദുവിൽ മാത്രം ചികിത്സ സാധ്യമാക്കുന്നു എന്നത് ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യുപങ്ച്‌റിന്റെ പ്രത്യേകതയാണ്.

### രോഗം മാറുന്നതെങ്ങനെ?

രോഗം മാറുന്നതിന് ഒരു ക്രമമുണ്ട്. അത് ഹെറിങ്സ് ലോ (Herings Law) പ്രകാരമാണ്.

• രോഗലക്ഷണങ്ങൾ ശരീരത്തിന്റെ മുൻഭാഗത്തുനിന്ന് താഴേക്ക് വരുക, ഉള്ളിൽ നിന്ന് പുറത്തേക്ക് വരുക, ഒരുവശത്തുനിന്ന് മറുവശത്തേക്ക് മാറുക.

- പ്രധാനപ്പെട്ട അവയവങ്ങളിൽ നിന്ന് പ്രാധാന്യം കുറഞ്ഞ അവയവങ്ങളിലേക്ക് രോഗലക്ഷണങ്ങൾ മാറുക.
- പഴയ രോഗലക്ഷണങ്ങൾ തിരിച്ചുവരിക.
- പഴയ രോഗലക്ഷണങ്ങൾ താൽക്കാലികമായി അധികരിക്കുക.
- രോഗലക്ഷണങ്ങൾ മാറുക.

ശരീരത്തിൽ അടിഞ്ഞുകൂടിയ മാലിന്യങ്ങൾ പുറത്തേക്ക് കളയുന്ന ഈ സ്വാഭാവിക പ്രക്രിയയെ മോർബിഡ് എലിമിനേഷൻ (Morbid Elimination) എന്ന് പറയുന്നു. ശരീരത്തിൽ മാലിന്യങ്ങൾ അടിഞ്ഞുകൂടുന്നതാണ് രോഗങ്ങൾ. അക്യൂപങ്ച്വർ ചികിത്സയിൽ പൊതുവായ പത്മ്യങ്ങൾ ഇല്ല.

- മാനസിക രോഗങ്ങൾക്ക് അക്യൂപങ്ച്വർ ചികിത്സ വളരെ ഫലപ്രദമാണ്.
- പാരമ്പര്യ രോഗങ്ങൾക്ക് ഫലപ്രദമായ ചികിത്സ സാധ്യമാണ്.
- ഗർഭാവസ്ഥയിൽ ചികിത്സ എടുത്താൽ കുഞ്ഞിന് പാരമ്പര്യ രോഗങ്ങൾ ഒഴിവാക്കാൻ സാധിക്കും.
- വന്ധ്യതക്ക് അക്യൂപങ്ച്വറിൽ ഫലപ്രദമായ ചികിത്സയുണ്ട്.
- കുട്ടികളുടെ പഠനം, സ്വഭാവ വൈകല്യങ്ങൾ

തുടങ്ങി നിരവധി രോഗങ്ങൾക്ക് ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യൂപങ്ച്വറിൽ ചികിത്സ നേടാം.

ലോകാരോഗ്യ സംഘടനയുടെ സർവ്വേ പ്രകാരം ഇന്ന് ലോകത്ത് ഏറ്റവുമധികം രാജ്യങ്ങൾ പിന്തുടരുന്ന പാരമ്പര്യ വൈദ്യശാസ്ത്രമാണ് അക്യൂപങ്ച്വർ. 2003 - ൽ ഇന്ത്യ ഗവൺമെന്റ് അംഗീകരിച്ച ഈ ചികിത്സാരീതി 2024 - ൽ ALLIED HEALTH PROFESSIONS ലിസ്റ്റിലും ഉൾപ്പെടുത്തിയിട്ടുണ്ട് .

പ്രകൃതിയുടെ തനത് ക്രമത്തോട് അനുരൂപപ്പെടുത്തിയാൽ മനുഷ്യന് പ്രകൃതിയോട് ഇണങ്ങി "സുഖകരമായ ജനനവും, ആനന്ദകരമായ ജീവിതവും, ശാന്തമായ മരണവും" സാധ്യമാകും എന്ന് ഇന്ത്യൻ ക്ലാസിക്കൽ അക്യൂപങ്ച്വർ നമ്മെ പഠിപ്പിക്കുന്നു.

SHABDON KA SAFAR  
 JOURNEY OF WORDS

प्राचीन परंपरा  
 साहित्यिक विरासत  
 सांस्कृतिक मूल्य  
 सांस्कृतिक मूल्य



प्राचीन परंपरा  
 प्राचीन परंपरा  
 साहित्यिक विरासत  
 सांस्कृतिक मूल्य  
 सांस्कृतिक मूल्य

खोज  
 यात्रा  
 साहस  
 खोज  
 साहित्य  
 अन्वेषण  
 प्रकृति  
 खोज  
 अहसास  
 सफर

कड़वा  
 साहस  
 खोज  
 साहित्य  
 अन्वेषण  
 प्रकृति

संस्कृति  
 मीजन  
 विलन  
 अजिताषा  
 वित्त  
 सांस्कृतिक मूल्य  
 साहित्यिक विरासत  
 सांस्कृतिक मूल्य

मंजिल  
 संस्कृति  
 मीजन  
 विलन  
 अजिताषा  
 वित्त  
 सांस्कृतिक मूल्य  
 साहित्यिक विरासत  
 सांस्कृतिक मूल्य

वर्षा  
 प्रेम्णा  
 वृत्ते

विद्यमान...  
 शब्दों का सफर

नाता...  
 दो दुवको  
 नासाडोति

# विद्यार्थियों के लिए समय प्रबंधन का महत्व

LEKHA RANI U.K  
Receptionist

आज के प्रतिस्पर्धात्मक युग में विद्यार्थियों के लिए समय प्रबंधन अत्यंत आवश्यक हो गया है | समय एक अमूल्य संसाधन है, जो एक बार चला जाम तो वापस नहीं आता | जो छात्र अपने समय का सही उपयोग करना सीख लेते हैं, वे न केवल पढ़ाई में बल्कि जीवन के हर क्षेत्र में सफलता प्राप्त करते हैं |

कॉलेज जीवन में पढ़ाई के साथ-साथ प्रोजेक्ट, सेमिनार, प्रतियोगिताएँ और अन्य गतिविधियाँ भी होती हैं | यदि विद्यार्थी अपने समय को व्यवस्थित नहीं करते, तो वे तनाव और असफलता का सामना कर सकते हैं |

समय प्रबंधन का पहला कदम है- अपनी प्राथमिकताओं को समझना | विद्यार्थियों को एक दैनिक समय-सारणी (टाइम-टेबल) बनाना चाहिए, जिसमें पढ़ाई, विश्राम और अन्य आवश्यक कार्यों के लिए उचित समय निर्धारित हो |

समय प्रबंधन से एकाग्रता बढ़ती है और कार्य समय पर पूरे होते हैं | यह आदत विद्यार्थियों में आत्मविश्वास भी विकसित करती है | मोबाइल फोन और सोशल मीडिया का सीमित उपयोग भी समय प्रबंधन का महत्वपूर्ण हिस्सा है, क्योंकि ये समय की सबसे बड़ी बर्बादी बन सकते हैं |

समय बहुत कीमती होता है | जो विद्यार्थी समय का सम्मान करता है, वो अपने जीवन में सफल होता है | इसलिए प्रत्येक विद्यार्थी को समय का सदुपयोग और अपने लक्ष्य की ओर निरंतर प्रयास करते रहना चाहिए |

"समय की कद्र जो करता है, वही आगे बढ़ता है | हर पल को जो सँभाल ले, लक्ष्य उसे मिल जाता है | आज का काम आज ही कर, यही जीवन का सार, समय प्रबंधन सीख ले, तभी बनेगा तू होशियार |"

# CANVAS OF CHAOS



ANGELINA MARIAM THOMAS  
S-2 CT

A group of five students are gathered in a meeting room. Three are standing and talking, while two are seated at a table with papers and coffee cups. The background features a whiteboard covered in colorful sticky notes. The scene is dimly lit with a large pendant light hanging from the ceiling.

# STUDENT ACTIVITY & CLUB REPORTS 2025-2026

# SENATE

Senate MBCET, the official student union of Mar Baselios College of Engineering and Technology, plays a pivotal role in coordinating student initiatives and representing the student community. The Senate for this academic year was elected on 20th February through a structured and parliamentary electoral process, ensuring fair representation and active student participation. The current Senate is headed by Chairperson Mr. Aaromal Santhosh S and Vice-Chairperson Gowri Santhosh, under the guidance of faculty coordinators Ms. Sabitha S Nair and Dr. Anil J., whose leadership and support have contributed significantly to the Senate's effective functioning.

From the outset, the Senate demonstrated a commendable initiative by organizing and overseeing a wide range of activities. One of its most notable achievements was the successful coordination of the annual three-day techno-cultural fest, which included a dedicated Technical Fest on the first day, followed by College Day and culturals on the second day, and the flagship Crossroads celebrations on the third day, highlighted by a grand pro-show. In addition to this, the Senate also organized a Women's Day exhibition

in March, aimed at promoting awareness, creativity, and participation, thereby reflecting its commitment to socially relevant initiatives.

Alongside major events, the Senate has been actively engaged in its regular responsibilities, including conducting meetings, maintaining proper documentation, and ensuring compliance with university guidelines through periodic reviews and inspections. The Senate has also been attentive to student initiatives and concerns, giving due consideration to any valid and genuine complaints or issues raised, and ensuring that appropriate actions and procedures are promptly undertaken.

With a strong foundation and a proactive approach, the Senate continues to function with enthusiasm and dedication. It has already laid out plans for several significant events in the upcoming tenure, reflecting its commitment to enhancing student engagement and contributing to a dynamic campus environment.

## A Year of Purpose and Impact: NSS MBCET (2025–2026)

The National Service Scheme (NSS) Units 230 and 706 of Mar Baselios College of Engineering and Technology exemplified the true spirit of service during the academic year 2025–2026 through a series of impactful and socially relevant initiatives. The year began with volunteer development programmes and one-day camps that strengthened leadership, teamwork, and communication skills among students. A major highlight was the Mega Blood Donation Camp conducted in collaboration with the Regional Cancer Centre, resulting in the collection of 45 units of blood and reinforcing the importance of voluntary donation.

NSS MBCET actively addressed key social issues through awareness campaigns on anti-drug initiatives, mental health, and sustainable energy practices. Environmental responsibility was emphasized through plastic collection drives and climate awareness programmes, leading to the collection of approximately 150 kg of plastic waste.

A significant experiential learning opportunity was the Nature Camp held at Peppara Wildlife Sanctuary, attended by 40 participants (38 students and 2 faculty members), fostering environmental awareness and conservation values. Humanitarian efforts remained central, with a Food Donation Drive distributing 355 meal packets and providing financial support for medical treatment. A Book Distribution Drive at Aruvikkara supported underprivileged students, while cleaning initiatives promoted hygiene and community well-being.

The NSS 7-Day Special Camp offered hands-on community engagement through surveys, cleaning drives, hospital visits, and awareness rallies, enhancing empathy and social responsibility among volunteers. Public outreach programmes across Nalanchira, Kanakakkunnu, and Thampanoor further extended awareness on health, safety, and environmental issues.

The initiatives of NSS Units 230 and 706 reflect a strong commitment to service, leadership, and social responsibility. Through their efforts, volunteers have not only contributed to society but have also grown into responsible and compassionate individuals, embodying the true spirit of NSS.



# Catalyst - Innovation and Entrepreneurship Development Center (IEDC) & MuLearn MBCET

## 1. Design:

Unlocked: Design: Unlocked 2025, South Kerala's largest design bootcamp, was held on February 1–2, 2025, at Shannon Hall, MBCET, organized by Catalyst Mar Baselio IEDC and  $\mu$ Learn MBCET. With 114 participants, the bootcamp featured sessions on design thinking, prototyping, UI design, intelligent user experiences, and design career pathways. A key highlight was the Mini Designathon, where teams solved real-world problems through user-centric ideation and prototyping. The event strengthened practical design skills and collaboration, marking a major milestone for MBCET in creative technology and design.

## 2. RELEVANT 2025:

The Recruitment of Emerging Leaders Event (RELEVANT) was held on February 26, 2025, at MBCET to select the Executive Committee for the 2025–26 tenure. The one-day event brought together 76 students from various departments interested in leadership, entrepreneurship, and innovation. It began with an orientation on Catalyst's vision and mission, followed by assessments evaluating critical thinking, collaboration, creativity, and role-specific skills across multiple domains. The event concluded with the formation of a new Executive Committee dedicated to advancing innovation and entrepreneurship at Catalyst.

## 3. Annual General Meeting:

The Annual General Meeting of Catalyst IEDC was held on March 4th 2025 at Senatus Hall, MBCET. The session was graced by Fr. John Varghese, Dr. S. Viswanatha Rao and Mr. Arun J.S. Mr. Arun J.S. provided an overview of the IEDC journey and executive committee selection. Ms. Sona Ponnachen presented the Annual Report 2024-2025, which was approved. Fr. John Varghese and Dr. S. Viswanatha Rao announced the new executive committee and distributed offer letters. The new CEO, Ms. Vasundhara S R, delivered an inspiring acceptance speech. The Principal and Director emphasized leadership and innovation, and Ms. Vasundhara concluded with a vote of thanks to all contributors.

## 4. Catalyst IEDC at Permute 2025:

Permute 2025, Kerala's largest skill fest, occurred on March 29, 2025, at Tagore Theatre, Thiruvananthapuram. The event united students, educators, innovators, and industry leaders to address the skill gap through hands-on challenges, expert sessions, and workshops. Mar Baselio College of Engineering and Technology's IEDC participated with a delegation of 50 members, gaining insights into Kerala's innovation ecosystem and future skill development.

## 5. Catalyst TRIBE at Figma Config Watch Party:

On May 10, 2025, Friends of Figma: Thiruvananthapuram hosted a Figma Config '25 Watch Party at CareStack, Technopark Phase 3. The event streamed the global conference and brought together students and professionals, including Agnivesh P S, Sabareesh P R, Devika S H, and others. Participants engaged with industry experts from Air India, Oracle, and IBM, gaining insights into product and UX design. Catalyst TRIBE served as the official community partner.

## 6. Evening Cafe Edition 3 Episode 1:

On 16th September 2025, the Evening Cafe – 3rd Edition, organized by Catalyst IEDC, featured Mr. Nikhil Chandran, Founder & CEO of TILTLABS. He presented on "Gaming: The Scope & Breakthroughs," discussing the impact of gaming, AR/VR, and immersive technologies on various industries. The interactive session attracted 48 students and marked a successful start to the new edition of the Evening Café series.

## 7. Inceptra VIII:

Catalyst IEDC and  $\mu$ Learn MBCET hosted Inceptra VIII, a startup bootcamp for 112 first-year students, on September 27–28, 2025. Inaugurated by Mr. Arun J S, it featured sessions on startups and problem-solving, helping students turn ideas into concepts and explore the entrepreneurial ecosystem. Gautham Jais and Anasooya P. Nair were awarded Mr. and Ms. Inceptra 2025, with MakeMyPass as the ticketing partner.

## 8. DARE2BUILD:

Catalyst IEDC, in partnership with Innove8orX, conducted Dare2Build to promote creativity, problem-solving, and entrepreneurship among students. A funding opportunity of ₹1,00,000 was offered for the best idea. The two-day event guided participants from orientation to practical application.

## 9. Startup Awareness and Leadership Training (SALT) 2025:

Startup Awareness and Leadership Training (SALT) is a program aimed at fostering entrepreneurship and scientific thinking among school students. Held offline on December 6, 2025, it engaged over 40 students from 12 schools in Thiruvananthapuram. Organized with CRB Math and Unibotix, the event featured an entrepreneurship session by Ms. Meenakshi B S and a hands-on robotics workshop by Mr. Vishnu P Kumar.



# CSI SB MBCET (2025 - 2026)

The Computer Society of India Student Branch at MBCET (CSI SB MBCET) has consistently strived to foster a dynamic and inclusive environment for student development during the academic year 2025–2026. With a strong focus on technical excellence, creativity, and professional growth, the student branch successfully organized and supported a wide range of events across multiple domains. The tenure also witnessed significant organizational growth, with the Executive Committee expanding from approximately 25 members in the previous tenure to around 41 members in the current tenure, including faculty coordinators. This expansion enabled the chapter to broaden its outreach and enhance the scale and diversity of its initiatives.

Throughout the year, the Executive Committee actively initiated several student-centric initiatives aimed at skill development and industry readiness. The Engineering 101 series, conducted across multiple episodes, introduced participants to diverse domains such as game development, UI/UX design, and app development through hands-on workshops. Complementing this, the Knackit professional development series focused on essential career skills including resume building, LinkedIn optimization, and version control using GitHub, attracting strong participation and positive feedback. Additionally, workshops and tutorials on emerging technologies such as Artificial Intelligence, Prompt Engineering, and data-driven tools further strengthened students' technical foundations and exposed them to real-world applications.

CSI SB MBCET also emphasized competitive learning and innovation through a variety of engaging events. Competitions such as DeCode'25 – Debug & Conquer, Encrypt – Ctrl + Alt + Secure, and the multi-domain AI Unleashed challenged participants in areas including debugging, cybersecurity awareness, logical reasoning, and AI-driven creativity. Flagship events like Radiance provided a platform for freshers to explore and showcase their talents, while initiatives such as Day at WallStreet (HASH 2026) introduced participants to

financial literacy and analytical thinking. These events collectively encouraged problem-solving, critical thinking, and interdisciplinary exploration among students.

Recognizing the importance of creativity and holistic development, the student branch also organized several artistic and expressive competitions. Events such as EcoCanvas, LensMaster, and HER Through ART provided platforms for students to showcase their creativity through poster design, photography, and visual storytelling. These initiatives not only celebrated artistic talent but also promoted social awareness, sustainability, and cultural engagement within the student community.

In addition to student-led initiatives, CSI SB MBCET played a vital role in supporting and collaborating with department-level activities. The chapter contributed to the successful execution of sessions such as motivational talks on Theoretical Computer Science and Influence of AI in IT Industries, as well as workshops including Java Development and Power BI. Major academic showcases such as Project Expo 2025 and the Tech Exhibition 2026—which featured final-year B.Tech projects from CSE and CSE (AI) students—highlighted innovation and technical excellence, with several teams being recognized for outstanding work. The student branch also extended its support as sponsors for the Smart India Hackathon preliminaries and as executive partners for the CSE department's technical fest, HASH, reinforcing its role as an active collaborator within the academic ecosystem.

Overall, CSI SB MBCET has demonstrated a well-rounded approach to student development by balancing technical, creative, and professional initiatives while maintaining strong collaboration with the department. Through its diverse activities, growing membership, and active involvement in institutional events, the student branch continues to strengthen its presence and contribute meaningfully to the academic and professional growth of students.



# IEEE MBCET – 2025

The IEEE Student Branch of Mar Baselios College of Engineering and Technology (MBCET) demonstrated an active, diverse, and impactful year in 2025 through a wide range of technical, professional, humanitarian, outreach, and creative initiatives. These activities, conducted through the Student Branch (SB), IEEE Society Chapters, viz. Computer Society (CS), Engineering in Medicine and Biology Society (EMBS), Robotics and Automation Society (RAS), Power and Energy Society (PES), Signal Processing Society (SPS) and Women in Engineering (WiE) Affinity Group, collectively focused on skill development, innovation, inclusivity, sustainability, leadership, and community engagement.

## 1. Workshop on Intellectual Property Rights (RAS)

A technical workshop organized by IEEE RAS SBC MBCET on April 4, 2025, in collaboration with KSCSTE, PIC-Kerala, and IPRIC-K, focusing on IPR types, patent search, and the Indian patent system, with participation from 57 students and faculty.

## 2. IEEE Member Development Session (PES)

An online membership development session held on April 5, 2025, introducing IEEE PES benefits, professional opportunities, and resources, engaging 49 participants.

## 3. Voices for Change: Dialogues with Assistive Technology Users and Professionals (EMBS)

User interaction sessions were conducted in March and April 2025 to gather real-world feedback on accessible door automation and sensory support systems for children with autism and ADHD.

## 4. SheClicks – Photography Competition (WiE)

A Women's Day photography competition organized on March 12, 2025, by IEEE WiE MBCET in collaboration with FRAMES MBCET, celebrating creativity and expression with seven participants.

## 5. Environment Day Celebrations (PES)

An outreach program conducted on June 5, 2025, at Govt. LPS School, Pangod, featuring awareness sessions, drawing competitions, and tree plantation activities to promote environmental responsibility.

## 6. Assistive Technology Internship (EMBS)

An 11-day internship held from June 9–20, 2025, focusing on inclusive engineering, healthcare technologies, user-centric design, and project development, with expert talks, field visits, and student presentations.

## 7. Career in Data Engineering (IEEE SB)

A one-day online session conducted on June 25, 2025, by IEEE Computer Society SBC MBCET, introducing data engineering concepts, career pathways, and industry tools, along with a quiz competition.

## 8. Watt-A-Quiz (PES)

A quiz-based technical engagement activity organized under the IEEE PES Student Branch to promote awareness in power and energy systems among students.

## 9. General Body Meeting (IEEE SB)

The IEEE MBCET Student Branch General Body Meeting held on August 1, 2025, focused on reviewing activities, member engagement, planning future events, and volunteer mobilization.

## 10. Hands-On Machine Learning with Orange (SPS)

A one-day workshop conducted on August 2, 2025, introducing third-year students to machine learning concepts using the Orange visual programming platform through hands-on exercises.

## 11. Talk Session on Career Opportunities (IEEE SB)

A career development talk titled "Amazing Technologies Shaping Our Future" conducted on August 9, 2025, highlighting emerging technologies and the importance of continuous skill development.

## 12. Scan the Green (EMBS)

An innovative initiative conducted on August 9, 2025, transforming the campus herbal garden into an interactive learning space using QR codes linked to plant information.

## 13. TechTinker: IoT and Hardware Essentials (IEEE SB)

A two-day outreach workshop conducted on August 9–10, 2025, introducing school students to basic electronics, IoT concepts, and virtual circuit design through hands-on sessions.

## 14. PVOLVE 2025 – Workshop on Solar PV System Design and Development (PES)

A technical workshop conducted on August 10, 2025, covering solar PV fundamentals, system design, and hands-on lab sessions, organized by IEEE PES SBC MBCET.

## 15. Disconnect to Reconnect: Glass Painting Edition (EMBS)

A digital detox and creative wellness workshop conducted on August 28, 2025, by IEEE EMBS WiE, encouraging relaxation and artistic expression through glass painting.

## 16. shrIEEEk '25 (IEEE SB)

The flagship orientation event for first-year students conducted on September 27, 2025, featuring technical challenges, team activities, and interactive sessions organized by IEEE society chapters.

### 17. Hands That Speak: Indian Sign Language Workshop (EMBS)

A beginner-friendly Indian Sign Language workshop conducted on October 3, 2025, to promote inclusive communication and awareness among participants.

### 18. SDLP & Workshop on Cyber Forensics – Hashing in Cyber Forensics (CS)

A hands-on workshop conducted on October 8, 2025, introducing students to hashing and file signature analysis used in digital investigations, organized by IEEE CS SBC MBCET and IEEE Kerala Section.

### 19. Java Development – An Industry Approach (CS)

A multi-session workshop conducted on October 15–16, 2025, providing third-semester students with industry-oriented Java development practices and real-world coding standards.

### 20. SDLP on Robot Operating System (RAS)

A Section Distinguished Lecture Program conducted on December 16, 2025, introducing participants to ROS fundamentals and robotic simulations using RViz and Gazebo.

### 21. Green Canvas – Poster Making Competition (PES)

An online poster-making competition conducted on December 23, 2025, promoting energy conservation and sustainable practices as part of Energy Conservation Week.

### 22. Ignium 2025 – Idea Pitching Competition (EMBS)

An online idea pitching competition conducted on December 27, 2025, providing students with a platform to present innovative ideas and receive expert feedback.

## Google Developer Groups on Campus (GDGC) MBCET

Google Developer Groups on Campus (GDGC) MBCET is a student-led technical community focused on fostering learning, collaboration, and innovation in technology. The community organizes workshops, learning programs, speaker sessions, and collaborative initiatives that help students explore emerging technologies, strengthen practical skills, and connect with industry-oriented learning opportunities.

GDGC MBCET functions under the guidance of **Dr. Merlin George (Assistant Professor, Department of Computer Science and Engineering)**, who serves as the **Faculty Coordinator**. The community is led by **Campus Lead Elvis Mathews Olickal (S6 EL)** and operates through dedicated teams that coordinate various aspects of its activities.

The teams and their respective leads are as follows:

- **Operations Team** – Jithin Rajesh (S6 EL)
- **Technical Team** – Abin S Manoj (S6 EC2)
- **Outreach Team** – Gowri Ajai (S6 CS1)
- **Content Team** – Shalin Miya Babu (S4 CS2)
- **Design Team** – Manuraj M S (S6 EL)

Through the collective efforts of these teams, GDGC MBCET has been actively organizing initiatives that promote technical learning, collaboration, and innovation within the campus community.

During the above-mentioned period, Google Developer Groups on Campus (GDGC) MBCET organized a series of technical events, workshops, learning programs, and community-driven initiatives aimed at enhancing students' technical expertise, collaborative skills, and industry readiness. The details are as follows:

### 1. Cloud Quest (11 October 2025 | Shannon Hall)

Cloud Quest introduced students to Google Study Jams and the Google Cloud Platform (GCP). The event witnessed participation from over 30 students, reflecting strong interest in cloud technologies and developer tools. Participants explored the Google Cloud Console, cloud infrastructure, and Git & GitHub fundamentals. Technical sessions were delivered by Jithin Rajesh (Google Cloud Fundamentals), Abin S Manoj (Web Development), and Elvis Mathews Olickal (Basics of Prompting LLMs). The event was coordinated under Dr. Merlin George and held in the presence of Dr. Neena Raj N. R.

### 2. Winter Arc (1 November – 31 December 2025 | Online)

A two-month structured online learning initiative featuring weekly quizzes, bi-weekly challenges, hands-on projects, and skill-based tasks in coding, AI, and problem-solving. Open to all MBCET students, the program encouraged consistent learning. The initiative recorded participation from over 200 students, making it one of the largest online learning activities organized by GDGC MBCET during the reporting period. Participants completing all tasks received certificates and activity points.



### 3. Constellations of Code (18 November – 31 December 2025 | Online)

A GDGC × Microsoft Learning Program focusing on GitHub basics, AI & ML fundamentals, GitHub Copilot, prompt engineering, and AI-powered application development. Participants earned official Microsoft badges and built portfolio-ready projects, enhancing internship and placement readiness.

### 4. Operation C (29 November 2025 | Shannon Hall)

A one-day Programming in C workshop aimed primarily at first-year students. The workshop emphasized programming fundamentals, hands-on coding, and exam preparation. The workshop saw participation from more than 40 students, particularly from the first-year batches, who actively engaged in the hands-on programming exercises. Sessions were conducted by Elvis Mathews Olickal, Joshua Sunny Ninan, and Jithin Rajesh.

### 5. Operation C – The Sequel (20 December 2025 | Online)

A continuation session reinforcing core programming concepts and clarifying doubts. The same speakers guided students through extended practice and conceptual strengthening.



### 6. Weekly Lounge @ MBCET (Initiated 7 January 2026 | Pascal Hall)

A weekly open talk and presentation platform conducted after class hours. Open to all students, the initiative provides a non-competitive space for presenting ideas (technical and non-technical) and receiving constructive feedback. The first edition was held on 7 January 2026 from 4:40 PM to 5:30 PM. The initiative continues to be conducted weekly, providing students with an ongoing platform to develop presentation skills, share ideas, and engage in constructive discussions.



### 7. Technoverse Pre-Event (22 January 2026 | Online)

An online session on Design & Entrepreneurship by Salman Faariz (Co-founder, MakeMyPass; CEO, The Hoomans Project), offering insights into startup thinking, innovation, and product design.



### 8. Technoverse (24–25 January 2026)

A two-day flagship event featuring sessions on Machine Learning, Project Development, Game Development, LeetCode Basics, Microsoft Azure, and Career Roadmaps. The event recorded participation from over 70 students, highlighting strong engagement and enthusiasm from the student community. Sessions were led by Anand Pillai, Stevin Santhosh Benny, Jithin Rajesh, Joel John, Ashiq Muhammed, and Abin S Manoj, under the guidance of Dr. Merlin George. The event fostered collaborative, industry-oriented learning.



# NEXORA 2026: Igniting Innovation at the 24th ISTE Annual State Student Convention

NEXORA 2026, the 24th ISTE Annual State Student Convention, successfully concluded as a premier platform for innovation, skill development, and industry-academia synergy. Held on January 30th and 31st, the convention transformed the campus into a vibrant hub of technological exploration, bringing together students, academic experts, and industry professionals from across the state.

## Technical Workshops: Bridging Theory and Application

The convention placed a heavy emphasis on hands-on learning, featuring specialized workshops that catered to the evolving needs of the modern technological landscape:

**DRONOPIA (Drone Workshop):** A standout two-day program conducted by the Alter Academy. Participants gained fundamental knowledge through a rotational curriculum covering drone building, simulation, career guidance, and practical flight sessions at the college grounds.

**Data Analytics & Cloud Computing:** These workshops provided critical industry-relevant training. The Data Analytics session introduced 49 students to visualization tools and data-driven decision-making, while the Cloud Computing workshop guided 52 participants through AWS fundamentals, including EC2 instance configuration and S3 storage management.

**CTRLHIJACK (Ethical Hacking):** This intensive training equipped students with practical insights into cybersecurity. Experts covered mobile security, system vulnerabilities, and ethical hacking methodologies, fostering a proactive approach to digital safety.

## Competitive Challenges: Testing Skills and Innovation

*The convention hosted an array of competitions designed to test participants' precision, problem-solving, and creative thinking under pressure:*

**Engineering & Design:** The SoDeSo event challenged students to demonstrate precision in soldering, desoldering, and circuit assembly, while **Builder Brain** tested design innovation and feasibility. The **CADwizard** competition pushed participants to exhibit proficiency in CAD modeling, emphasizing dimensional accuracy and 3D print feasibility.

**Robotics & Troubleshooting:** The Robo Maze Escape highlighted autonomous navigation and intelligent control, requiring teams to design robots capable of self-contained movement through complex mazes. Meanwhile, Minnal Murali—the circuit debugging competition—tested students' real-time troubleshooting skills through a rigorous, multi-round technical challenge.

**Research & Debate:** A high-level Paper Presentation track allowed students to present research on topics ranging from IoT-based smart metering to AI-driven software development. Simultaneously, the Debate Competition served as a platform for critical discourse on the ethical and societal impacts of Artificial Intelligence.

## Engagement & Community

Beyond the technical core, NEXORA 2026 cultivated a spirit of collaboration and creativity through events like the Treasure Hunt, which engaged over 100 participants in a campus-wide problem-solving race, and the Clay Workshop, which offered a creative outlet for artistic expression.

## Conclusion

NEXORA 2026 successfully bridged the gap between academic theory and real-world application. By integrating expert-led workshops, high-stakes technical competitions, and collaborative research forums, the 24th ISTE Annual State Student Convention provided a transformative experience, empowering students with the practical skills and confidence needed to navigate the rapidly evolving technological sector.



# American Society of Mechanical Engineers (ASME) MBCET Chapter

## EXECOM & Membership

The chapter's strategic direction is currently spearheaded by a dedicated executive committee, led by Chairperson J S Hemand, Vice-chair Gowri R G, and Secretary Nandagopal H. Under their leadership, the chapter has focused on fostering a robust community of aspiring engineers. A significant milestone in this growth occurred on December 8, 2025, when the chapter officially inducted 23 new members from the non-first-year student body. This infusion of experienced students has significantly strengthened the chapter's internal expertise and provides a solid foundation for upcoming technical projects and mentorship initiatives.

## Industry Expert Session

On August 5, 2025, ASME MBCET, in collaboration with TrEST Research Park and the Kerala Startup Mission, organized a high-impact session on 'Emerging Defence Technologies: Opportunities'. Keynote speaker Commander (Dr.) Jayakrishnan N Nair addressed over 150 participants, offering expert insights into the evolving landscape of modern defense. The session emphasized critical research frontiers, highlighting how strategic innovations in AI and autonomous systems are creating new avenues for academic R&D and startup engagement within the sector.

prospects and startup opportunities in the Indian defence sector.

## Organized a two-day Autodesk certified CAD Workshop

on Autodesk Fusion 360 for UG mechanical Engineering students. The workshop was jointly organized by the ASME MBCET chapter, ISTE MBCET chapter, and Automata, in association with InterCad Systems Pvt. Ltd. Date: Jan 10th and 11th, 2026. Venue: Software Labs, C-Block, MBCET. Around 82 UG students spanning different branches participated in the two-day workshop.



# American Society of Civil Engineers (ASCE)

The ASCE Student Chapter of MBCET carried out a diverse range of academic, professional, and outreach activities during 2025-26, aimed at enhancing the technical competence and overall development of Civil Engineering students. The year began with CIVILIZE 2025, a structured recruitment drive based on SDG-themed poster presentations and interviews.

To promote experiential learning, several industrial and technical visits were organized, including visits to steel structure construction sites, a 32 m span concreting project, Vizhinjam Port, UltraTech RMC plant, and Hindustan Colas. These visits provided students with valuable real-world exposure to engineering practices.

The chapter also facilitated professional interaction through alumni sessions and expert talks featuring distinguished speakers, offering insights into career development, interdisciplinary opportunities, leadership, and innovation. Technical skill development was supported through workshops on Autodesk Civil 3D and GIS, along with competitions like "Last Structure Standing" and CADD contests that encouraged design thinking and problem-solving.

In addition to its technical initiatives, the chapter actively engaged in social outreach through meaningful activities such as food distribution drives, orphanage visits, and awareness programs, fostering a sense of empathy and social responsibility among students. These initiatives encouraged members to contribute beyond academics and understand the impact of engineering in society.

Students also took part in conferences, innovative projects like the Concrete Canoe, and international programs, gaining valuable exposure to global practices and emerging trends. Participation in co-curricular and cultural events further enhanced teamwork, creativity, and overall personality development.

Overall, the ASCE Student Chapter successfully created a well-rounded platform that integrated technical learning, professional exposure, and social responsibility, contributing significantly to the holistic growth of its members.

# Ādyatva The Association of Science in MBCET

Ādyatva, the Science Club of Mar Baselios College of Engineering and Technology, continues its mission of fostering scientific curiosity, innovation, and interdisciplinary learning among students. Functioning under the Department of Science and Humanities, the club provides a dynamic platform for students to explore scientific ideas beyond the classroom through engaging activities, workshops, and collaborative events.

Over the academic year 2025–26, the club has actively organized and supported programmes that encouraged analytical thinking, creativity, and hands-on learning. The initiatives undertaken reflect the club's commitment to nurturing a vibrant scientific community within the institution.

## HIGHLIGHTS OF THE YEAR

**1. POSTER MAKING COMPETITION – 2025** Ādyatva, the Science Association of MBCET, successfully conducted a Poster Making Competition on August 12, 2025 (Tuesday) to commemorate the birth anniversary of Dr. Vikram Sarabhai. The theme of the competition was "Science for Society - Inspired by Dr. Vikram Sarabhai". Out of 15 enthusiastic participants, Ms. Nandana S from S3 CE2 secured the first prize, while Mr. Joel Joe Varghese from S3 CE2 was awarded the second prize.

**2. NATIONAL SCIENCE DAY CELEBRATION – 2026** Ādyatva, the Science Association of MBCET, celebrated National Science Day on 26th and 27th February 2026 with a series of engaging and intellectually stimulating programmes.

The celebrations began on 26th February with an inter-departmental quiz competition for college students. Among the enthusiastic participants from various batches, Hanan Muhammad S and Joe Babith (S2 EC2) secured the first position, while Jaine S Thomas and Sree Govind S (S6 CS1) won the second position.

On 27th February, the programme featured an inspiring lecture and live demonstration of scientific experiments by Prof. V. P. N. Nampoori, Emeritus Professor, Cochin University of Science and Technology (CUSAT), Kochi. This was followed by an engaging hands-on session on holography conducted by Dr. Ajith Kumar, President and Lead Scientist of Hardy Opto-Digital. Participants had the opportunity to explore the fascinating science behind holograms through interactive demonstrations.

The programme was organized in association with Swadeshi Science Movement – Kerala. Approximately 200 students from various schools in and around the city attended the sessions, contributing to the vibrant atmosphere and making the celebration a grand success.

The two-day event effectively fostered scientific curiosity and innovation among students, truly reflecting the spirit of National Science Day. The academic year 2025–26 marked another significant step forward for Ādyatva in its journey to cultivate a strong scientific culture within the campus. Through well-organized events and enthusiastic participation, the club has successfully inspired students to engage with science in meaningful and practical ways. Moving forward, Ādyatva aims to expand its activities by incorporating more interdisciplinary collaborations, and outreach initiatives. With continued support from faculty and active involvement from students, the club is poised to achieve greater milestones in the coming years.



## SAE INDIA Student Chapter Activity Report (2025–2026)

The SAE Collegiate Club of MBCET actively promoted technical excellence and industry-oriented learning during the academic year 2025–2026 through a series of structured and engaging activities. The year commenced with an orientation program for first-year students, creating awareness about SAEINDIA, global

mobility competitions, and opportunities for skill development. This was followed by a successful membership drive that enrolled 104 active student members, forming a strong and diverse base for club operations. To ensure effective leadership and coordination, a new team of office bearers was

selected, establishing a clear organizational structure for the year's initiatives. The club further enriched student learning by organizing expert sessions such as the technical talk "From Campus to Competitions," which provided insights into SAE events and career pathways, and another session on "AI in Mechanical Engineering," highlighting the impact of emerging technologies on the industry.

In addition to knowledge-sharing sessions, the club conducted interactive and competitive activities to enhance practical skills and technical aptitude. The college-level quiz competition "Throttle and Think" encouraged analytical thinking and identified students for external competitions. A hands-on workshop,

"VOLTZWHEELS – Powering the Future of Mobility," introduced participants to electric vehicle technologies and sustainable transportation concepts. The club also played a significant role in the department technical fest VORTECHX 2026 by organizing multiple events such as Controlled Impact, CAD Competition, Pit Stop, Ecorun, and Paper Plane Design, attracting participation from around 100 students. These initiatives collectively fostered innovation, teamwork, and problem-solving skills while strengthening students' readiness for national-level competitions and industry challenges. Overall, the SAE MBCET Collegiate Club successfully created a dynamic platform for experiential learning, contributing significantly to the technical and professional development of students.



# SAMVADAM CLUB

## Introduction

The SAMVADAM Club was established as a platform dedicated to enhancing the soft skills of students, particularly in areas that complement their academic and technical pursuits. With the encouragement and support of faculty members Dr. Archana P. Das, Dr. Veena Nair, and Mr. Vinu Vargheese, along with the guidance of the Principal, the initiative received strong institutional backing and evolved into an active student-driven community.

A central focus of the club has been its engagement with Model United Nations (MUN) conferences conducted across various institutions. These conferences offer students a unique opportunity to participate in diplomatic simulations, represent nations, and deliberate on globally relevant issues. Through such experiences, members have been able to strengthen their public speaking, research, and negotiation skills while gaining valuable exposure to international affairs.

## MISSION OF THE CLUB

The Samvadam Club aims to bridge the gap between technical knowledge and effective communication by equipping students with essential interpersonal and presentation skills. In today's competitive environment, the ability to articulate ideas clearly, express thoughts confidently, and engage in meaningful discussions is indispensable, especially for students in engineering and other technical domains.

The club provides a platform for students to improve their public speaking, group discussion, debate, and leadership abilities through interactive activities, seminars, and workshops. It also encourages teamwork, critical thinking, and personality development, helping students build confidence in both academic and professional environments.

By fostering a culture of communication and continuous learning, the Samvadam Club strives to shape students into confident speakers, responsible individuals, and capable professionals.

meaningful discussions is indispensable, especially for students in engineering and other technical domains.

Through a range of activities including debates, workshops, speech sessions, and Model United Nations conferences, the club creates opportunities for students to actively practice and refine their communication skills. These platforms encourage participants to step out of their comfort zones, gradually build confidence, and develop clarity in thought and expression.

The club also fosters a culture of collaboration and peer learning, where members support each other's growth through constructive feedback and shared experiences. This environment not only enhances communication skills but also nurtures qualities such as adaptability, teamwork, and leadership.

Ultimately, the Samvadam Club strives to shape individuals who are not only technically proficient but also confident, articulate, and capable of making meaningful contributions in diverse professional and social settings.

## EVENTS

### MBCET INTRA MUN 2025

Date: February 1-2, 2025

Venue: MBCET

The Samvadam Club successfully organized the MBCET Intra Model United Nations 2025, providing students with a structured introduction to diplomatic simulations.

Committees: UNHRC and International Press (IP)

UNHRC Agenda: Assessing Human Rights in Armed Conflicts with Special Emphasis on the Middle East Crisis

Executive Board:

UNHRC:

Soheth A Robin – Chairperson

Abhav R Nair – Vice-Chairperson

Yash Chhalotre – Director

IP:

Ashlin Anil Antony – Head of Photojournalism

Elvis Mathews Olickal – Head of Journalism

### MBCET MUN 2025

Date: September 19-21, 2025

Venue: MBCET

The Samvadam Club successfully organized MBCET Model United Nations 2025, a flagship intercollegiate conference that brought together delegates from various institutions. The conference recorded a total participation of 187 delegates, fostering a competitive and intellectually stimulating environment. Notably, MBCET secured the Best Delegation award, with over 44 home delegates and 3 individual achievements.

The inaugural ceremony was graced by Dr. John Brittas, Member of Parliament, whose address highlighted the importance of dialogue and informed discourse.

Committees and Executive Board:

UNHRC:

Soheth A Robin – Co-Chairperson

Anamika Uralath – Co-Chairperson

Joan Eliza Joe – Rapporteur

UNSC:

Abhiram J – Co-Chairperson

Siddharth S – Co-Chairperson

Bevis Mathew Thomas – Rapporteur

ECOSOC:

Jairam R Prabhu – Chairperson

Yash Chhalotre – Vice-Chairperson

Adil Mohammed – Rapporteur

### AKPPM:

അജണ്ട:

വർദ്ധിച്ചുവരുന്ന ഗാർഹിക പീഡനങ്ങൾ നിർമാർജ്ജനം ചെയ്യുന്നതിനായി, ഗാർഹിക പീഡന നിരോധന നിയമം, 2005 ചേർത്തതിനുള്ള ശുപാർശകൾ

Arjun S Nair – Speaker

Gokul K – Deputy Speaker

Shibin S R – Rapporteur

International Press:

Ashlin Anil Antony – Head of Photojournalism

Jorge Abraham Thomas – Head of Journalism

With a prize pool of ₹85,000, the conference was widely appreciated for its professionalism and impactful execution.

### EXTERNAL MUN ACHIEVEMENTS

MACE MUN 2025:

Abhav Nair – High Commendation

Jithin Rajesh – Special Mention

Elvis Mathews Olickal – High Commendation

Neil Philip Koshy – Verbal Mention

Adil Mohammed – Honourable Mention

Jacob Cherian – Verbal Mention

MACE MUN 2026:

Shefali – Verbal Mention

Richa Rose – Verbal Mention

Jonathan D'Cruz – Verbal Mention

TKM MUN 2025:

Adil Mohammed – High Commendation

SSET MUN 2025:

Elvis Mathews Olickal – Special Mention

Vaishnav D Prabhath – Special Mention

Adil Mohammed – Special Mention

## CONCLUSION

The academic year 2025–26 has been a period of meaningful progress for the Samvadam Club, marked by successful initiatives and notable achievements in the MUN circuit. From organizing impactful events within the campus to actively participating in external conferences, the club has consistently created opportunities for its members to grow and excel. These experiences have played a significant role in enhancing communication skills, strengthening critical thinking, and building confidence among members. The

collaborative spirit within the club has further contributed to creating a supportive environment that encourages continuous learning and improvement. As the club moves forward, it remains focused on expanding its reach, elevating the quality of its initiatives, and providing even more avenues for students to develop essential life skills. With the continued guidance of faculty mentors and the enthusiasm of its members, the Samvadam Club is well-positioned to achieve greater milestones in the years ahead.

# MBCETAA Annual Report

The Mar Baselios College of Engineering and Technology Alumni Association (MBCETAA) continues to play a pivotal role in strengthening the bond between alumni and their alma mater. Through sustained engagement, financial contributions, academic encouragement, and social responsibility initiatives, MBCETAA has consistently supported the holistic development of the institution and its stakeholders. During the academic year 2025–2026, MBCETAA undertook several impactful initiatives aimed at supporting academic departments, encouraging student excellence, fostering alumni engagement, and contributing to societal causes. This annual report presents a comprehensive overview of the major activities and contributions of MBCETAA during the year.

## 1. Financial Contributions and Institutional Support

### 1.1 Support for Departmental Technical Fest

In order to promote technical innovation, student participation, and departmental activities, MBCETAA extended financial assistance to all departments of the college for the conduct of their respective Technical Fests. A total amount of ₹1,00,000 was contributed collectively to support these events, enabling departments to organize workshops, competitions, exhibitions, and expert sessions effectively. This initiative significantly enhanced student engagement, encouraged inter-departmental collaboration, and provided a platform for showcasing technical skills and creativity.

### 1.2 Financial Support for Crossroads 2026

MBCETAA provided substantial financial backing for Crossroads 2026, one of the flagship events of the institution. An amount of ₹1,00,000 was contributed to ensure the successful planning and execution of the event. The support helped in organizing large-scale programs, student-centric activities, and cultural events, thereby enriching campus life and strengthening the institution's visibility and outreach.

## 2. Awards and Recognition Initiatives

### 2.1 Alumni Outstanding Performance Award 2026

For the academic year 2024–2025, the award was conferred upon Ms. Blessy Smitha Das, 2021–2025

batch, Department of Electrical Engineering, in recognition of her outstanding performance in academics, co-curricular and extra-curricular activities. The award was presented during College Day.



### 2.2 MBCETAA Best Project Awards

MBCETAA instituted the Best Project Awards to promote innovation, research aptitude, and practical problem-solving skills among students. Two best projects were selected from each Department and cash prize of ₹10,000 per department were awarded during the graduation ceremony-Exodos 26. These awards encouraged students to undertake quality projects with real-world relevance and reinforced the importance of applied learning and research culture within the institution.

## 3. Alumni Engagement Activities

### 3.1 Department of Computer Science and Engineering – Alumni Meet

The Department of Computer Science and Engineering successfully conducted its alumni meet on December 27th 2025, with the support and participation of MBCETAA. 120 alumni attended the function. The event served as a platform for reconnecting alumni with faculty and students, sharing professional experiences, and discussing emerging trends in the computing industry. The meet facilitated meaningful networking, mentorship opportunities, and collaborative discussions for future academic and professional initiatives.



### 3.2 Department of Electronics and Communication Engineering – Alumni Meet

The ECE Alumni Meet: Retrace'25 conducted on 30th December 2025 at 6:00pm, witnessed enthusiastic participation, with 100 alumni members attending the event. The meet featured interactive sessions, experience sharing, and discussions on industry expectations and technological advancements. The strong alumni turnout highlighted the enduring connection between graduates and the Department, and the willingness of alumni to contribute to academic and student development activities.



### 3.3 Department of Electrical and Electronics Engineering – Alumni Meet

The EEE Alumni Meet-Respark'25 was attended by 60 alumni members on 2nd January 2026 at 3:00pm, providing a vibrant forum for interaction between alumni, students, and faculty. The event fostered discussions on career pathways, higher education opportunities, and advancements in the electrical and energy sectors.



## UHV-MBCET

Mar Baselios College of Engineering and Technology, Trivandrum, Kerala, has been recognized as a Nodal Centre for Universal Human Values (UHV) by the All India Council for Technical Education (AICTE) for the period 2025-27.



The 5- days UHV II FDP (21/07/2025 to 25/07/2025) on AICTE Universal Human Values (UHV) at Mar Baselios College of Engineering and Technology (MBCET) commenced with a prayer song by Ms. Sruthi Janardhanan, Assistant Professor (S & H). The welcome address was delivered by Dr. S. Viswanatha Rao, Principal, MBCET. The

program was officially inaugurated by Rev. Fr. John Varghese, Director, MBCET.

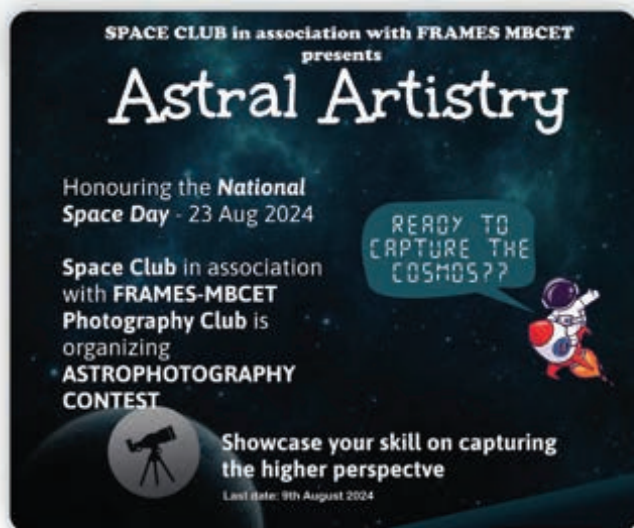
Mr. Manilal V.J., AICTE Observer, provided a brief overview of the Faculty Development Program. Prof. Umesh Jadhav, AICTE Resource Person, addressed the gathering with a concise and impactful talk on Universal Human Values. He shared insights into the vision and philosophy of UHV, its relevance in contemporary education, and how it serves as a foundation for a just and harmonious society. The formal proceedings concluded with a vote of thanks by Dr. Veena Nair, Program Coordinator. AICTE Co- facilitators: Ms. Priya C.V and Dr. Joy Varghese V.M. Out of the 81 participants registered for the FDP, 51 participants attended the FDP. This included 18 AICTE registered participants and 33 participants registered via MBCET-UHV cell. This included participants from other colleges in the state and outside the state as well.

A 2-day webinar (June 22-23, 2025) led by Dr. S. Ushakumari focused on helping students understand how to live a fulfilling and purposeful life. Key topics included value and skill education, self-exploration, natural acceptance, human aspirations, and harmonious living. The sessions emphasized right understanding, relationships, responsible use of resources, and holistic development. Students actively participated and found the sessions insightful and refreshing.

# Frames MBCET

## ASTRAL ARTISTRY-ASTRAL PHOTOGRAPHY CONTEST IN ASSOCIATION WITH SPACE CLUB FRAMES - MBCET

Photography Club in association with Space Club as part of National Space Day organized Astral Artistry - Astrophotography Contest for the students of the college from 8th August 2025 to 13th August 2025. The students were asked to capture stunning images of the night sky, stars, or celestial events, and submit their best shots via a submission link. It was evaluated and certificates were awarded to the winners. The event helped the students to showcase their skills on capturing the higher perspective.



## FRAME IT - PHOTOGRAPHY CONTEST

FRAMES MBCET organized FRAME IT - Photography Contest as part of Crossroads 2026 - National Level Annual Techno-Cultural Fest of MBCET.

## FAREWELL FUNCTION OF OUTGOING EXECOM TEAM A

farewell meeting was conducted for the outgoing Execom team of FRAMES MBCET Photography Club.



# AUTOMATA Events 2025-26

## 1. IGNITION 2025

Freshers for first year students was conducted on 7th November 2025.

## 2. Christmas card making competition

A Christmas card making competition was conducted on 25th December 2025.

## 3. CAD Workshop

A CAD workshop was conducted as part of ISTE Annual convention 2026(NEXORA) on 10th and 11th January 2026.



## 4. CAD Competition

As Part of ISTE 24th Annual student convention a CAD Competition was conducted on 30th and 31st January.

## 5. ZeroG-Space entrepreneurship fest

As Part of ISTE 24th Annual student convention a space event was conducted at Senatus Hall on 30th January 2026.

## 6. Career Opportunities after B.Tech

An Online Webinar was conducted by ACE Engineering Academy Based on the importance of GATE for future career Opportunities.



# IET MBCET ON CAMPUS

**40-Hour Bootcamp on Drone/UAS Technology**  
A 5-day bootcamp conducted with NIT Calicut provided hands-on training in aerodynamics, drone assembly, and flying for 140+ students.

**Bag the Plastics**

An online ideathon promoting sustainable alternatives to plastic bags, encouraging innovative eco-friendly ideas.

**TinkerIET**

An interactive event for second-year students featuring a career talk and fun challenges with active participation.

**College Heats'25**

A presentation competition under PATLN that enhanced students' communication, creativity, and confidence.

**HackIET**

A hackathon focused on real-world problem-solving in domains like AI, sustainability, and drone technology.

**Layout Logic**

A beginner-friendly UI/UX workshop covering Figma, design principles, and practical design skills.

**Cancer Awareness Initiatives**

Included a pledge wall and expert talk session, spreading awareness on prevention and early detection.

**IGNIET**

An engaging orientation program introducing first-year students to IET through creative and interactive activities.

**YWE Launch & Engineering Your Confidence**

Focused on empowering women engineers through confidence-building and leadership sessions.

**Green Democracy Ideathon**

Encouraged innovative ideas for sustainable elections and increased democratic participation.

**Nammade Vote App Launch**

A digital platform developed with the District Administration to enhance voter awareness and convenience.



# Department of Physical Education

The academic year 2025-26 marked a period of remarkable achievements in sports, with students excelling at university and national levels. Their consistent performance, record-breaking feats, and championship victories reflect the institution's strong sporting culture and commitment to excellence.

These are some of the significant achievements in sports in the year 2025-26

- 1) 17 students represented the University and 3 students represented Nationals in different games in Men and Woman category.
- 2) Shone C Achankunju (S8 EC2) became the Fastest Male Athlete of the University consecutively second time in 100 Mtr race with a record breaking time of 11.40 seconds.
- 3) Sherry Shaji Thomas ( S2 CT ) has broken the 6 year old record time in 5000m woman walking competition in the KTU Athletics meet.

4) Our Basketball and Tennis Men team became the Champions consequently third time in the University competition.



# IEEE CS

The IEEE Computer Society (CS) Student Branch of MBCET organized a Distinguished Lecturer Program featuring a hands-on workshop on "Cyber Forensics" on October 8th, 2025, from 2:30 pm to 4:30 pm. The session was led by Mr. Nabeel Koya A, Scientist F, specializing in Cyber Forensics at CDAC, Thiruvananthapuram. The workshop provided students with valuable insights into the critical aspects of digital investigation and data integrity, focusing on the concepts of Hashing and File Signature Analysis — two essential techniques used in verifying the authenticity and integrity of digital evidence.

Mr. Nabeel Koya skillfully blended theory with practical demonstrations, enabling students to gain a deeper understanding of how hashing algorithms function in real-world forensic analysis and how file signatures assist in identifying tampered or corrupted files. The hands-on component of the session allowed participants to engage directly with forensic tools and apply the techniques discussed, thereby bridging the gap between academic knowledge and industry practices.

A total of 38 students from the third semester actively participated in the workshop, showcasing keen interest and enthusiasm throughout the session. The event was efficiently coordinated by Student Coordinator Ms. Blessy S. Catherine, under the guidance of Faculty Coordinators Ms. Lino Zachariah, Assistant Professor (CSE), and also

Dr. Lani Rachel Mathew, Assistant Professor (ECE). The workshop concluded with an interactive Q&A session, where students clarified their queries and gained further insight into career opportunities in the field of cyber forensics. Overall, the session proved to be an enriching and enlightening experience for all participants.

## OBE WORKSHOP

Department of Computer Science in association with IEEE CS and CSI organized an OBE workshop on 'Java Development- An Industry Approach' on 15th October, 2025 for S3 CS1 students at Software Lab1. Workshop was handled by Mr. Shibu Shibu, Associate Software Engineer, Experion Technologies. Students gained hands-on experience in connecting Java applications with databases using JDBC. Faculty Coordinator- Ms. Lino Zachariah, Assistant Professor, CSE.

## INTRODUCTION TO QUANTUM TECHNOLOGY

IEEE SB MBCET organized an online webinar on the topic quantum technology on 14th April, 2026 from 6.30-7.30pm. More than 90 participants participated in this webinar. Session concluded with interactive question and answer session on projects and implementation.

# Nature Club (Prakruthi) Activity Report 2025–26

The Nature Club (Prakruthi) of MBCET actively promoted environmental awareness and sustainability through various programs during the academic year.

### 1. World Environment Day (June 5, 2025)

A medicinal plant sapling drive was conducted in association with Rotary Club of Suburban Trivandrum and Susrutha Charitable Medical Trust. Around 50 varieties of medicinal plants were planted on campus, enhancing biodiversity and spreading awareness about their ecological importance. Faculty, students, and officials actively participated.

### 2. Ayurveda for Healthy Living (Nov 21, 2025)

A medical camp and awareness session were organized in collaboration with Susrutha Institute of Ayurvedic Sciences. Experts delivered talks on healthy living, and herbal product stalls were arranged, promoting traditional and natural healthcare practices.

### 3. SustainXpo 2025 (Dec 18, 2025)

A mini project expo was conducted for first-year B.Tech students to showcase innovative, eco-friendly solutions. Projects focused on sustainability, renewable energy, waste management, and technology-based environmental solutions, encouraging practical learning and environmental responsibility.



# IEEE SB

The IEEE Student Branch of MBCET organized a wide range of technical, professional, and innovation-driven activities in 2026, promoting learning, collaboration, and skill development among students.

Major events included the Annual General Meeting, marking leadership transition and reviewing achievements, and Tink-Her-Hack 4.0, an all-women hackathon encouraging innovation and teamwork. Technical sessions such as the IoT Bootcamp (ESP32), Cybersecurity CTF, and Quantum Technology Webinar enhanced students' practical knowledge in emerging fields.

Industry exposure was provided through a field visit to SCTIMST laboratories and the EV Expo, showcasing advancements in biomedical and electric vehicle technologies. Career-oriented and motivational sessions, including talks on entrepreneurship and confidence building, guided students towards professional growth.

Interactive and competitive events like RoboRace, Technical Escape Room, and A Day at Wall Street encouraged problem-solving, teamwork, and real-world application of knowledge. Creative and awareness initiatives such as LUMERA and Inclusive Innovation promoted social responsibility and innovation for societal impact.



## MBCET – TrestPark Satellite Centre Activity Report 2026

### 1. Inauguration of TrestPark Satellite Centre at MBCET

Mar Baselios College of Engineering & Technology hosted the official launch of the first Trivandrum Engineering Science Camp; Technology (TrEST) Research Park Satellite Centre on campus on 20th November 2025, a major step towards strengthening innovation, industry-academia collaboration and technology commercialization at MBCET. The facility was established through the leadership and support of Dr. Rajasree M. S., Dr. S. Viswanatha Rao, Rev. Fr. John Varghese Palanilkunnathil, Rev. Fr. Dr. Koshy Issac Punnamoottil, Dr. Ushakumari S, along with the faculty and management of MBCET. At the inauguration, Dawnell Industries Pvt. Ltd. was welcomed as the first company to commence operations at the centre, marking a key step toward building a vibrant innovation ecosystem. With several more companies expected to join, the Satellite Centre is set to evolve into a dynamic hub for technology development, entrepreneurship, and collaborative research.

### 2. MoU with Dawnell Industries Pvt. Ltd.

A Memorandum of Understanding (MoU) was signed on 2 March 2026 between Dawnell Industries Pvt. Ltd. and Mar Baselios College of Engineering and Technology (Autonomous). This marks the first MoU under the

Trest Research Park Satellite Centre. Mr. Pratyush Moni SJ, Founder and CEO of Dawnell Industries Pvt. Ltd., is an alumnus (2018–2022 batch) of the Department of Mechanical Engineering, MBCET. The partnership will benefit students by offering internships, practical training, and exposure to industry practices, helping them build skills and improve their career readiness.



# SPORTS ACHIEVEMENTS



**ASHNA RACHEL SHINE**

Represented KTU for the South Zone Inter University KABADDI Championship held at Vinayaka Missions Research Foundation, Chennai



**JUHI ELIZABETH JOHN**

Represented KTU for the South Zone Inter University TABLE TENNIS Tournament held at Gitam University, Visakhapatnam



**ROHAN PC**

Represented KTU for the South Zone Inter-University BASKETBALL Tournament held at SRM Institute of Science & Technology, Chennai



**AROMAL R CHANDRAN**

Represented KTU for the South Zone Inter University BASKETBALL Tournament held at SRM Institute of Science & Technology, Chennai



**SANJAY KRISHNAKUMAR**

Represented KTU for the South Zone Inter University BASKETBALL Tournament held at SRM Institute of Science & Technology, Chennai



**ASHISH E**

Represented KTU for the South Zone Inter University BASKETBALL Tournament held at SRM Institute of Science & Technology, Chennai



**SACHU SANTHOSH**

Represented KTU for the South Zone Inter University BASKETBALL Tournament held at SRM Institute of Science & Technology, Chennai



**ARAVIND AJAY**

Represented KTU for the South Zone Inter University TENNIS Tournament held at Jain University, Bangalore



**PAVAN S**

Represented KTU for the South Zone Inter University TENNIS Tournament held at Jain University, Bangalore



**DIYA VIJAYAN V D**

Represented KTU for the All India Inter University NETBALL Championship held at Sage University, Bhopal  
Represented KTU for the South Zone Inter University BASKETBALL Tournament held at Christ University, Bangalore.



**KRISHNAVENI B**

Represented KTU for the All India Inter University NETBALL Championship held at Sage University, Bhopal.  
Represented KTU for the South Zone Inter University BASKETBALL Tournament held at Christ University, Bangalore



**ANANYA BIJUKUMAR**

Represented KTU for the All India Inter University YOGASANA Championship held at Sri Vyasa University, Bangalore



**ABHINAV KRISHNA**

Represented KTU for the All India Inter University SHOOTING Competition held at Meerut, UP  
Represented 28TH Senior National Shooting Championship



**DEV NARAYAN P**

Represented KTU for the All India Inter University NETBALL Championship held at Sage University, Bhopal



**CHAITHANYA P SUNIL**

Represented KTU for the All India Inter University NETBALL Championship held at Sage University, Bhopal



**SRIHARI J S**

Represented KTU for the All India Inter University Ball Badminton Tournament held at Bharathi Dasan University, Thiruchirappally



**BHADRA VYGA**

Represented KTU for the South Zone Inter University KARATE Championship held at Sage University, Bhopal



**SHOAIB ADIL**

Participated in the National UIC Kick Boxing Federation Cup 2026 held at Calicut



**HERIN MARY TIJU**

Secured First position in the Senior National Invitational Karate Championship



**AISHWARYA BALAKRISHNAN MENON**

Secured Second position in the Junior National Wrestling Championship



**SHERRY SHAJI THOMAS**

First position in Kata for the 4th National KARATE Championship  
Third position in Kumite for the 4th National KARATE Championship



**Karishma T Prasad**

3rd position in KTU Athletics Competition



**Shone C Achankunju**

1st position in KTU Athletics Competition



**Sherry Shaji Thomas**

3rd position in Walking Competition in KTU Athletics



Kabaddi(W)- A- Zone Winner, Inter-Zone -IV



Table Tennis (M)- A-Zone- 1st , Inter Zone- 4th .  
Women- A-Zone -2nd



Basketball Men - A Zone and Inter Zone - Champions  
Women- A Zone Champions and Inter Zone-1st Runner up



Women Yogasana team-3rd position in KTU Inter Zone  
Competition



Tennis Men team-Winners in KTU Inter Zone  
Competition



Women Shuttle Badminton- 2nd position in KTU A Zone  
Championship



Chess(M)-2nd Runner Up in KTU A Zone Competition



Sidharth S Roy(S4 ME)secured First and Adithya Chandran (S4 EE)secured Third prize in the District Junior Bodybuilding Competition under 65 kg & 60 kg weight category respectively



# LEGENDS OF MBCET CROSSROADS26'







# LEGENDS OF MBCET OFFROADS25'



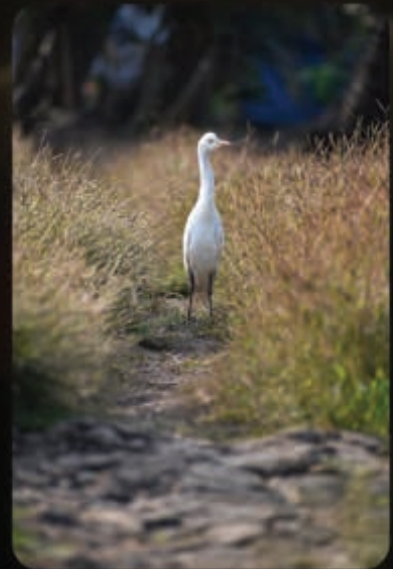


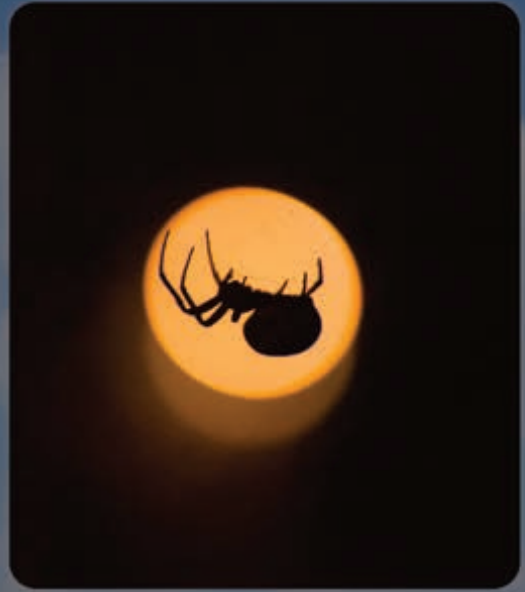
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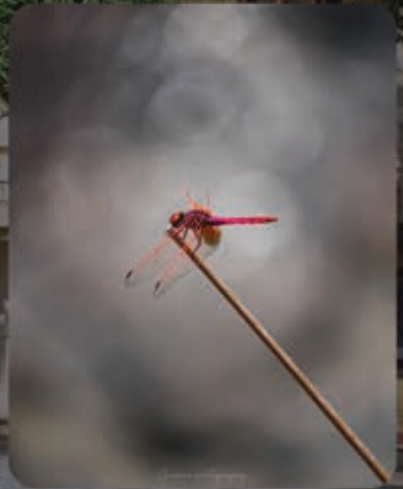
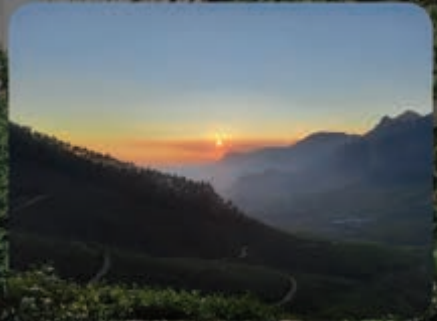


**FRAMES**

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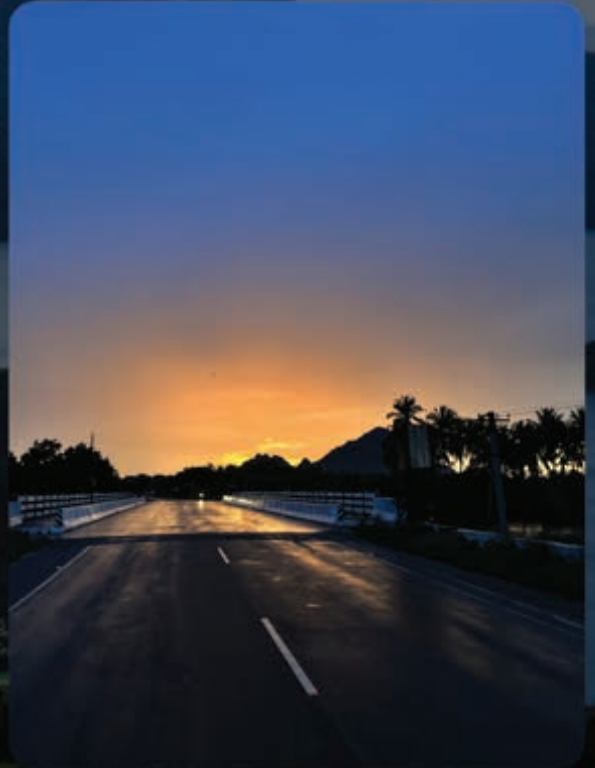






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# Signing Off

"Words are, in my not-so-humble opinion, our most inexhaustible source of magic." — J.K. Rowling

As we bring this edition to a close, I extend my heartfelt gratitude to every reader, writer, and contributor who made this journey truly meaningful. What began as an idea has now taken shape through countless hours of effort, collaboration, and creativity. Each page you have turned carries with it a story, a perspective, and a voice that deserves to be heard. It has been an absolute privilege to curate and present this collection, knowing that it reflects not just content, but the spirit and energy of an entire community.

This issue stands as more than just a compilation of articles—it is a celebration of expression, innovation, and thought. Every piece included here carries its own identity, yet together they create something far greater. I hope this magazine has inspired you to think differently, to question deeper, and to appreciate the power of words and ideas. Your engagement as readers is what gives life to these pages, and it is your curiosity that drives us to continue striving for excellence with every edition we bring forward.

This journey would not have been possible without the immense support from the management, especially Rev. Fr. John Varghese Palanilkunnathil, Director of Mar Baselios College of Engineering and Technology, and Rev. Dr. Koshy Issac Punnamoottil, Bursar of Mar Baselios College of Engineering and Technology, whose encouragement and backing have been instrumental in making this publication possible. We are equally grateful for the constant support and guidance of Dr. S. Viswanatha Rao, Principal of Mar Baselios College of Engineering and Technology, whose leadership and encouragement have been truly invaluable. I would also like to express my sincere gratitude to Dr. George Zacharia for his insightful guidance and unwavering support throughout the process. A special thanks goes to Aromal HR for working closely with me and contributing significantly to bringing this vision to life.

I would like to extend my heartfelt appreciation to all the editorial board members for their dedication, commitment, and tireless efforts behind the scenes. Their keen eye for detail and passion for excellence have played a crucial role in shaping this magazine into what it is today. I would also like to thank Abhishek P. Dileep and the entire design team, whose creativity and hard work have brought these pages to life with remarkable visual appeal. Most importantly, I thank all the students who contributed their articles—your ideas, voices, and perspectives are the true essence of this publication, and without you, this magazine would not exist.

As we sign off, let us remember that every ending is simply the beginning of something new. The pages may close, but the thoughts, inspiration, and conversations continue beyond them. Until we meet again in the next edition, keep reading, keep questioning, and keep creating—because the world always needs more voices willing to be heard.

Sidharth Sumitra Gireesh  
Student Editor

*Best Wishes*



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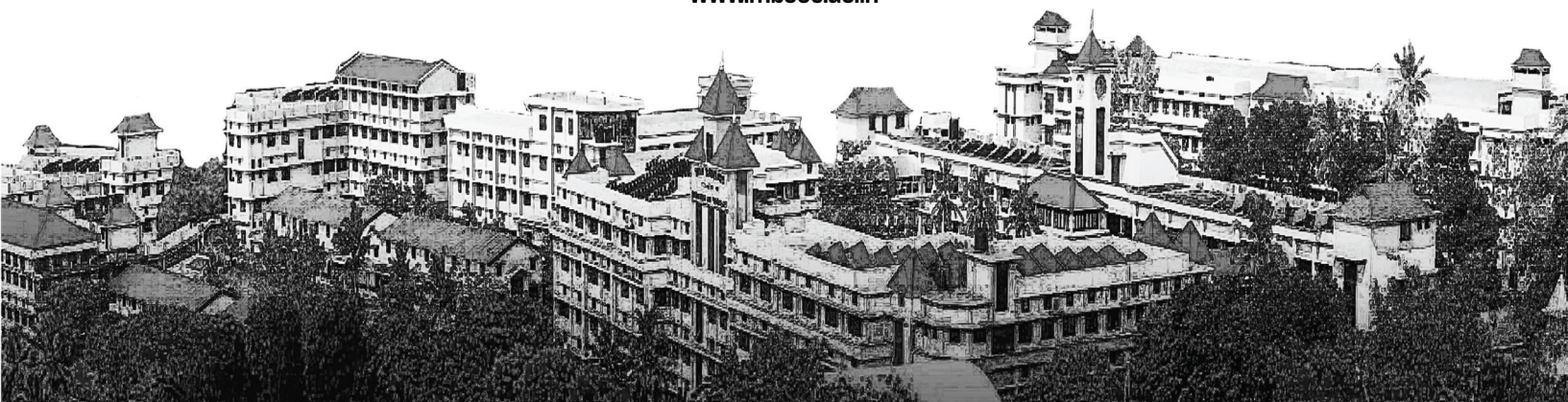
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