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Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
DEEMED TO BE UNIVERSITY



University with Graded Autonomy Status

(An ISO 21001 : 2018 Certified Institution)

Periyar E.V.R. High Road, Maduravoyal, Chennai-95, Tamilnadu, India.

**FACULTY OF ENGINEERING AND
TECHNOLOGY
DEPARTMENT OF MECHANICAL
ENGINEERING**

Message:

HOD

DEPUTY HOD'S

EDITORS

ARTICLES CORNER

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- 2.Future of Space Exploration-What Lies Beyond 2030
3. How to Stay Creative Amid Academic Pressure
- 4.Sridhar Vembu-The Visionary Behind Zoho's Global Success
- 5.A Story of Growth, Friendships, and Success

Alumni Corner

PUBLICATION

OTHER EVENTS

EDITORIAL BOARD

HOD-DESK

MESSAGE



by,
Dr.K.RAJAN,
HOD/MECH Engg

HOD message:

Greetings!

I am delighted that Dr. MGR University has provided us with the opportunity and vision to support the release of the Newsletter series throughout all quarters of each academic year. This platform serves as a valuable forum for connecting with all stakeholders and fostering a sense of community.

I am especially pleased to see our department releasing the Newsletter for the period of April 2025 to June 2025. Wishing for many more successful editions ahead and an enriching reading experience for all!

Deputy **HOD-DESK**

MESSAGE



by,
Dr.A.MANOJ BABU,
Deputy HOD/Mech Engg.

Deputy HOD of the Mechanical Engineering

The Newsletter serves as a mirror, reflecting the vibrant activities and achievements of the department. It provides a platform where students from all walks of life can have their voices heard in an inclusive space that embraces and encourages diverse thoughts and perspectives.

I am pleased to see our department releasing its Second Quarter Newsletter for 2025. May it successfully fulfil its purpose of informing, inspiring, and connecting our community. Wishing everyone an engaging and insightful read!

MESSAGE

It gives us immense pleasure to be an integral part of this Newsletter—a powerful communication platform designed to meet the needs of the time. It serves as a bridge, delivering key messages about significant events, achievements, and milestones to all concerned.

Beyond being an information channel, the Newsletter fosters a strong sense of belonging among faculty, alumni, and students. Life does not offer rewinds, only flashbacks, and our talented alumni possess a wealth of experience and skills to share with current students through insightful talks and newsletters.

We believe our efforts will be truly meaningful when, after reading these articles, you feel inspired and motivated to contribute even more to future editions. Let's continue this journey of knowledge sharing, collaboration, and growth together!

EDITORIAL BOARD

Mr.W.Andrew Nallayan – Asst Prof

Mr.D.A.Vinoth – Asst Prof

Hari Krishnan D – IV Mechanical Engineering

Aravinth.V – IV Mechanical Engineering

Jai Kishore.M - IV Mechanical Engineering



ACTION CORNER

SNIPPETS FROM PALS AND OUR UNIVERSITY

APRIL TO JUNE

DATE	EVENT TITLE	SPEAKERS	EVENT COORDINATE
18 April, 2025	Technical Talk on Transforming Mechanical Systems with Adaptive Technologies	Vignesh Raja, Strategy Consultant-First, Independent (Also associated with BITSAA International, Madras Management Association, NIPM, Young Entrepreneurship School)	
7 May, 2025	Interdisciplinary Lecture on The Future of Mechanical Engineering: AI and Machine Learning as Game Changers	S.AKILA, Assistant Professor, Department of Computer Science & Engineering, Dr.M.G.R Educational & Research Institute	
9 April 2025	Subject Lecture on Engineering Solid Foundations: The Science of Material Strength	M.R.WILSON JOHN Assistant Professor, Dr.M.G.R Educational & Research Institute.	
25 April 2025	Professional Development in Mechanical Engineering: Skills for Tomorrow's Challenges	K KARTHIK Regional Training Manager, TATA Motors,PVT,LTD.	

PALS: MAY

EVENT :Fluid Power Challenge (FPC)-2025 for Innovation in Design

ORGANIZER: Fluid Power Society of India (FPSI) in coordination with PALS

DATE:26.05.2025 (Initiative Announcement / Registration Phase)

VENUE : All India Competition (Institutional Partner Level)

PALS facilitated an invitation for engineering institutions to participate in the prestigious Fluid Power Challenge (FPC)-2025, an all- India competition focused on "Innovation in Design" organized by the Fluid Power Society of India (FPSI). The initiative was designed to challenge students to apply concepts of hydraulics and pneumatics across diverse industrial sectors, including automation, aerospace, automotive, and heavy material handling equipment. Running parallel to an independent National Level Quiz, the design challenge required student teams to submit innovative project abstracts demonstrating practical fluid power applications. This collaborative effort successfully stimulated competitive engineering design and industry-aligned skill development among the participating student batches



Reg. No. 250/73-74

FLUID POWER SOCIETY OF INDIA (Regd.)

Unit No. 5-21, 2nd Floor, # 259, SNS Chambers, Sadashivanagar,
Sankey Road, Bengaluru - 560080, Phone: 080 - 23600917
Mobile: 9986504001 | Email: secretariat@fpsindia.net
Website: www.fpsindia.net | GSTIN: 29AAAAT0852E1ZN

Dear Sir/Madam,

22nd May 2025

Subject: Invitation for participation in Fluid Power Challenge (FPC)-2025 M. S. Yoganarasimha Prize for Innovation in Design

Warm greetings from the Fluid Power Society of India (FPSI).

In memory of our Founder-Member, the late Shri. M. S. Yoganarasimha, we have instituted the M. S. Yoganarasimha Prize for Innovation in Design. In this competition, student teams design and build a fluid power mechanism or concept, competing for this esteemed prize. Their designs will be evaluated by a panel of eminent judges.

The M.S. Yoganarasimha Prize focuses on innovation in designing fluid power mechanisms, promoting teamwork and technical problem-solving skills with a focus on Mechatronics.

We are delighted to extend an invitation to your esteemed college to participate in the prestigious M. S. Yoganarasimha Prize for Innovation in Design, a prominent event under the Fluid Power Challenge 2025 organized by FPSI. This annual competition offers engineering students a unique platform to apply their knowledge of fluid power and present innovative design ideas.

Each college can field a maximum of two teams, each supported by a dedicated faculty advisor. The competition will commence with online elimination rounds in August and September 2025, culminating in the finals to be held in Bengaluru.

Winners and runners-up of the Fluid Power Challenge will receive attractive cash prizes, research grants, and internship opportunities. They will be honored at the Fluid Power R&D Confluence event in Bengaluru later this year. Additionally, faculty advisors of the winning teams will receive a research grant, and both teams will have the chance to participate in a two-month internship. At FPSI's discretion, the winning and runner-up teams of the M.S. Yoganarasimha Prize may also present their papers at the FPRD. The cash awards for FPC are up to Rs. 2,50,000/-.

Please respond to this email to indicate your interest. We will be coming back to you with a detailed brochure including the rules, regulations, and important dates.

About FPSI

Established as India's sole national body dedicated to the advancement of Fluid Power encompassing hydraulics, pneumatics, mechatronics, and automation, FPSI has been a stalwart in promoting knowledge and technology in this field for over five decades. Founded in 1973 by a consortium of technocrats, engineers, manufacturers, and academicians, FPSI has consistently championed the potential of the fluid power industry across various sectors such as construction, defence, infrastructure, automotive, agriculture, etc. Our primary mission is to facilitate the growth of the Indian Fluid Power Industry to be among the top 5 global manufacturing hubs. FPSI endeavours to achieve this by fostering awareness, disseminating knowledge, and facilitating sustained growth through collaborative efforts with stakeholders, including academia. As part of our commitment, FPSI has instituted various initiatives, including student chapters in leading colleges, apprenticeship programs, industrial visits, leadership development activities, and specialized training sessions in hydraulics and pneumatics for diverse skill levels.

Apart from the National Fluid Power Challenge, FPSI hosts several other events throughout the year, including the International Fluid Power Technical Seminar series (FPTS), Fluid Power Professionals' Day (FPPD), Fluid Power R&D Confluence (FPRD), and CEO Conclave & Panel Discussions.

We eagerly anticipate your enthusiastic participation and innovative contributions.

Best regards,

Mr. Kaustubha Parkhi

Chairperson-FPC
Fluid Power Society of India

Mr. Shrikant Bairagi

President
Fluid Power Society of India



ARTICLES CORNER

How the Internet of Things (IoT) Is Revolutionizing Industrial Maintenance

by,

Mr. Andrew Nallayan,
Asst. Professor/ Mech Engineering.

In today's rapidly advancing industrial world, the Internet of Things (IoT) has become one of the most powerful tools reshaping how machines and factories operate. From manufacturing to energy production, IoT is changing the way engineers approach maintenance — turning it from a routine, time-based task into a smart, data-driven process that predicts problems before they happen.

What Is IoT in Industrial Maintenance?

The Internet of Things refers to a network of interconnected devices equipped with sensors and software that collect and exchange data. When applied to industrial maintenance, IoT allows machines to “talk” to each other and to engineers. By embedding sensors into machinery, data such as temperature, vibration, pressure, and energy consumption can be tracked in real time.

This data is transmitted to cloud-based platforms where advanced algorithms analyze it to identify patterns or anomalies. Engineers can then detect issues early, schedule maintenance efficiently, and prevent costly equipment failures. This approach is known as Predictive Maintenance (PdM) — one of the biggest breakthroughs in modern industry.

From Reactive to Predictive Maintenance

Traditionally, industries followed reactive maintenance, repairing equipment only after it broke down. This often led to unplanned downtime, production loss, and expensive repairs. Later, companies adopted preventive maintenance, scheduling regular check-ups regardless of machine condition — but this sometimes caused unnecessary maintenance and waste of resources.

IoT has taken maintenance a step further. With predictive maintenance, engineers can now monitor the actual condition of equipment and perform maintenance only when needed. For example:

- A vibration sensor on a turbine can detect imbalance or bearing wear before it leads to failure.
- Temperature and pressure sensors in hydraulic systems can predict leaks or overheating.
- Smart meters can analyze power consumption patterns to spot inefficiencies in motors or compressors.

This continuous monitoring means fewer breakdowns, lower maintenance costs, and longer machine life.

Benefits of IoT-Based Maintenance

1. **Reduced Downtime:** Real-time alerts help prevent sudden breakdowns and production halts.
2. **Cost Savings:** Predictive repairs reduce unnecessary maintenance and spare part replacements.
3. **Increased Equipment Life:** Monitoring ensures machines operate within safe limits, extending their lifespan.
4. **Improved Safety:** Fault detection before failure reduces the risk of accidents.
5. **Remote Monitoring:** Engineers can track equipment health from anywhere using mobile devices or dashboards.
6. **Data-Driven Decision Making:** IoT enables industries to plan better, allocate resources efficiently, and improve productivity.

Real-World Applications

Many leading industries are already using IoT for maintenance:

- **Automotive Manufacturing:** Companies like BMW and Ford use IoT sensors in assembly lines to monitor robotic arms and conveyor systems.
- **Energy Sector:** Power plants use IoT-based predictive maintenance to track turbines, transformers, and pumps.
- **Oil & Gas Industry:** Remote IoT monitoring ensures pipeline integrity and minimizes environmental risks.
- **Smart Factories:** Using platforms like Siemens MindSphere and GE Predix, engineers analyze millions of data points to predict failures in complex systems.

Challenges in Implementation

Despite its advantages, IoT in industrial maintenance faces some challenges:

- **High Initial Investment:** Installing sensors and data systems can be expensive.
- **Data Security:** Protecting industrial data from cyber threats is a major concern.
- **Integration Issues:** Connecting old (legacy) machines with new IoT systems can be complex.

However, with continuous technological improvements, these barriers are slowly being overcome.

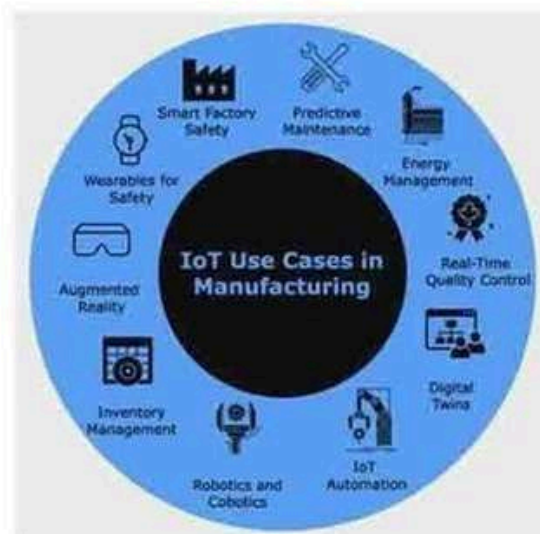
The Future of Maintenance: Smart, Sustainable, and Autonomous

As IoT combines with Artificial Intelligence (AI) and Machine Learning (ML), the future of maintenance will become even more intelligent. AI algorithms will analyze vast amounts of sensor data and automatically schedule maintenance tasks. Digital twins — virtual replicas of machines — will simulate real-time performance, allowing engineers to test scenarios before making changes.

This digital transformation, often called Industry 4.0, is paving the way for fully smart factories where automation, robotics, and IoT work together seamlessly. The result will be cleaner, more efficient, and sustainable industrial operations.

Conclusion

The Internet of Things is not just a technological upgrade — it's a revolution in how industries think about maintenance. For mechanical and production engineers, understanding IoT is becoming as essential as knowing gears or thermodynamics. As future innovators, students should explore IoT systems, data analytics, and sensor integration to prepare for a world where machines communicate, data drives action, and maintenance becomes predictive, not reactive.



Future of Space Exploration – What Lies Beyond 2030

BY: MR.R.T.CHANDER, Asst Professor, Mech Engineering

Space — the final frontier — has fascinated humankind for centuries. From the first telescopic observations by Galileo to the Moon landing in 1969, every milestone in space exploration has expanded our understanding of the universe and our place within it. As we move toward the 2030s and beyond, space exploration is entering a new golden era — one driven by technological innovation, global collaboration, and private enterprise. The coming decades promise discoveries and missions that will redefine the limits of human achievement.

The Moon: Humanity's Next Gateway

The Moon is once again at the center of global space ambitions. NASA's *Artemis* program, supported by international partners such as the European Space Agency (ESA), Japan (JAXA), and Canada (CSA), aims to return humans to the lunar surface and establish a permanent base by the early 2030s. Unlike the *Apollo* missions, *Artemis* focuses on sustainability — constructing habitats, testing life-support systems, and developing methods to use lunar resources for survival.

One of the most exciting goals is to utilize lunar ice deposits found near the Moon's poles. This ice could be transformed into water, oxygen, and even rocket fuel, reducing dependence on Earth-based resupply. These advancements will make the Moon a strategic launching point for future missions to Mars and beyond.

The Race to Mars

Mars remains the ultimate destination for human exploration. Space agencies and private companies are developing missions that could see astronauts set foot on the Red Planet in the 2030s. NASA's *Mars Sample Return* mission, scheduled for the late 2020s, will bring Martian soil back to Earth for the first time. Meanwhile, *SpaceX's Starship* is being engineered as a fully reusable spacecraft capable of transporting large crews and cargo to Mars.

Life-support systems, radiation protection, and long-duration habitat design are among the biggest challenges. Robotic missions like *Perseverance* and *ExoMars* are helping scientists understand the Martian environment, laying the groundwork for human survival on another world. If successful, Mars colonies could be humanity's first step toward becoming a multi-planetary species.

Rise of the Private Space Industry

The 21st century has seen a revolution in the way space is explored and financed. Private companies are now key players, accelerating progress with innovation and competition. *SpaceX*, *Blue Origin*, *Virgin Galactic*, and *Rocket Lab* are among the major contributors reshaping the industry.

Reusable rockets have dramatically lowered the cost of reaching orbit. Commercial satellites, space tourism, and even asteroid mining are now viable industries. The concept of "New Space" — the collaboration between private companies and national agencies — ensures that space exploration will be faster, more efficient, and more inclusive than ever before.

New Homes in Orbit

With the International Space Station (ISS) approaching the end of its operational life, a new generation of space habitats is on the horizon. *Axiom Space Station*, *Orbital Reef* (a partnership between Blue Origin and Sierra Space), and other commercial stations will continue scientific research, technology testing, and even host tourists.

These stations are designed to be modular and self-sustaining, with laboratories, living quarters, and observation decks. They will serve as both workplaces and transit hubs for astronauts heading to the Moon, Mars, and deep space. The dream of a permanent human presence in orbit — once science fiction — is now becoming a reality.

Exploring the Outer Worlds

While human missions may focus on the Moon and Mars, robotic explorers will continue to journey farther into our solar system. NASA's *Europa Clipper* and ESA's *JUICE* missions will study Jupiter's icy moons, searching for signs of life beneath their frozen crusts. Similarly, *Dragonfly*, a drone-like spacecraft, will explore the surface of Titan — Saturn's largest moon — which has lakes of methane and a dense atmosphere.

Beyond the solar system, advanced telescopes such as the *James Webb Space Telescope* and the upcoming *Nancy Grace Roman Space Telescope* will peer deeper into the universe than ever before. They will help astronomers identify exoplanets that might host life and study the earliest galaxies formed after the Big Bang.

Artificial Intelligence and Automation in Space

Future space missions will rely heavily on artificial intelligence (AI) and robotics. AI-powered systems will handle navigation, maintenance, and decision-making in environments where communication delays with Earth are too long. Autonomous rovers, drones, and robotic assistants will support astronauts in constructing habitats, performing research, and ensuring safety on distant worlds.

Machine learning will also help analyze massive volumes of space data — from satellite imagery to cosmic radiation patterns — making space research more efficient and accurate.

Sustainability and Global Collaboration

With the growing number of satellites, spacecraft, and debris in orbit, maintaining a sustainable space environment is becoming increasingly important. International organizations are developing guidelines to manage space traffic, reduce debris, and ensure peaceful use of outer space.

Countries such as India (ISRO), China (CNSA), Japan (JAXA), and the United Arab Emirates are expanding their presence in space exploration, fostering a spirit of cooperation rather than competition. The future of space depends not just on technology but also on shared responsibility and mutual respect among nations.

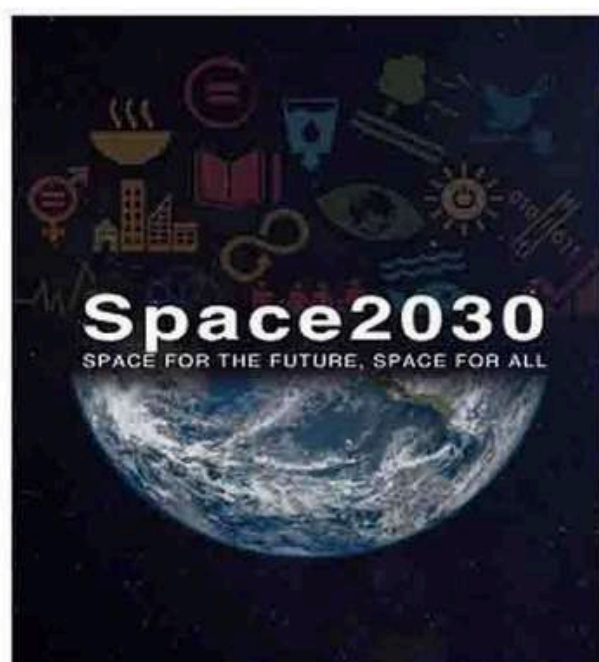
Beyond the Horizon: The Next Great Leap

Looking beyond 2030, we can imagine possibilities that today sound like science fiction — space mining, solar power satellites, interstellar probes, and perhaps even colonies on Mars or the Moon. As technology advances, humanity's reach into the cosmos will continue to grow.

Space exploration is more than just a scientific pursuit; it's a symbol of human unity and progress. Every launch, every discovery, and every footprint on another world reminds us that curiosity is our greatest power.

The future of space exploration lies not only in discovering new worlds — but in discovering what we, as humans, are truly capable of.

“Space exploration is not a race to the stars; it's a journey to understand ourselves.”



How to Stay Creative Amid Academic Pressure

By: Jai Kishore.M, 3rd Yr, Mechanical Engg.

How to Stay Creative Amid Academic Pressure

In today's world of tight deadlines, assignments, and endless exams, students often find themselves caught in a cycle of stress and competition. The academic journey, though rewarding, can sometimes feel like a race — one that leaves little room for imagination and innovation. Yet, creativity is not a luxury; it's a *necessity*. It is the spark that drives scientific breakthroughs, artistic expression, and personal fulfilment.

So how can students stay creative and inspired while juggling academic expectations? Let's explore practical ways to nurture creativity, even amid the chaos of college life.

1. Recognize the Value of Creativity in Academics

Creativity is often misunderstood as something limited to artists, musicians, or writers. In reality, it's a vital skill for engineers, scientists, and entrepreneurs too. Creative thinking allows you to approach problems differently — to question, to innovate, and to see possibilities where others see obstacles.

For engineering students, creativity means designing smarter machines. For business students, it's developing new strategies. For literature students, it's reinterpreting words in unique ways. Once you realize that creativity enhances your field of study rather than distracts from it, you'll start giving it the space it deserves.

2. Balance Discipline and Freedom

Structure and creativity can coexist. A disciplined schedule helps you meet your academic commitments, but leaving *room to breathe* in that routine is essential. Overplanning every minute can suffocate inspiration.

Try to set aside “creative breaks” — small windows of time where you allow yourself to think freely, doodle, brainstorm, or simply let your mind wander. Sometimes, the best ideas emerge when you’re not consciously searching for them.

3. Step Outside the Syllabus

The classroom provides knowledge, but true learning often begins outside it. Participate in workshops, hackathons, cultural festivals, or community service. Volunteer, explore internships, or engage in clubs that reflect your passions.

When you explore new experiences, you collect fresh ideas — these experiences feed your creativity and help you make connections between theory and reality. For instance, a mechanical engineering student experimenting with robotics in a college club may come up with ideas for more efficient automation systems.

4. Stay Curious — Ask “Why?” More Often

Curiosity is the seed of creativity. Every great idea begins with a question. When studying, don’t just focus on memorizing facts; ask *why* things work the way they do, or *what if* they worked differently.

Instead of accepting information passively, challenge it. Discuss topics with professors, debate with peers, and explore related fields. Curiosity not only deepens understanding but also encourages the kind of original thinking that fuels innovation.

5. Learn to Manage Stress Constructively

Academic pressure is real, and stress can easily block creative flow. But instead of seeing stress as an enemy, treat it as a signal — a reminder to pause, reset, and recharge.

Practice mindfulness through simple breathing exercises, meditation, or journaling. Physical activity, like yoga or walking, also helps reduce anxiety. A relaxed mind is fertile ground for creative ideas.

Remember: taking care of your mental well-being is not a distraction from your goals — it's what makes achieving them possible.

6. Collaborate, Don't Compete

While healthy competition can motivate, excessive comparison can drain creativity. Collaboration, on the other hand, multiplies it.

Working with classmates, especially those from different disciplines, can lead to innovative ideas you'd never reach alone. For instance, a design student collaborating with an engineering peer might create a prototype that's both functional and aesthetically brilliant.

College is one of the few places where you're surrounded by people with diverse talents — make the most of it.

7. Don't Fear Failure — Use It as Fuel

Failure is often seen as a setback, but in reality, it's a powerful teacher. Every creative journey involves trial and error. When something doesn't work, analyze *why* — that reflection can lead to a better, smarter approach next time.

Thomas Edison once said, "I have not failed. I've just found 10,000 ways that won't work."

That mindset is what transforms ordinary learners into innovators.

8. Nurture Your Hobbies and Passions

Your creativity doesn't have to be confined to academics. Music, sketching, writing, photography, or even cooking — all of these activities fuel the imagination.

When you engage in something you love, your brain enters a relaxed and imaginative state. This mental recharge often spills over into your studies, helping you approach problems with renewed enthusiasm and creativity.

9. Take Breaks — They're Part of the Process

In a culture that glorifies productivity, taking breaks can feel like a luxury. But rest is not idleness. Short breaks help your brain consolidate information, relieve fatigue, and refresh your creative energy.

Go for a walk around campus, listen to music, or spend time with friends. Creativity often blooms in moments of pause.

10. Keep a Creative Journal

One practical way to nurture creativity is to maintain a journal — not just for academics but for ideas, sketches, and reflections. Jot down random thoughts, quotes, or problems that intrigue you. Over time, this collection becomes a treasure chest of inspiration and insight.

Final Reflection: Creativity as a Way of Life

Staying creative amid academic pressure isn't about adding more work to your schedule — it's about changing *how* you think and approach learning. Creativity is not the opposite of discipline; it's what makes discipline meaningful.

In a world that constantly demands performance, creativity keeps you human. It reminds you that education is not just about grades, but about growth — about becoming someone who can imagine, design, and build a better tomorrow.

So, the next time you feel overwhelmed by deadlines, take a deep breath, step back, and let your imagination take over. Because even under pressure, your creative spirit can — and will — shine through.



Sridhar Vembu – The Visionary Behind Zoho’s Global Success

by, Hari Krishnan D, 3rd Yr, Mechanical Engg

In the bustling world of global tech giants, one name that stands out for redefining success with simplicity, humility, and innovation is Sridhar Vembu, the founder and CEO of Zoho Corporation. From humble beginnings in a small village in Tamil Nadu to leading one of the world’s most respected software companies, his journey is nothing short of inspiring—a true testament to India’s growing power in the digital age.

From Dreams to Determination

Born in 1968 in a modest family in Thanjavur, Tamil Nadu, Sridhar Vembu’s early life was deeply rooted in rural India. Despite limited resources, his love for learning pushed him to excel academically. He graduated with a degree in Electrical Engineering from IIT Madras and later earned his Ph.D. from Princeton University, USA. Like many young Indians of his time, he could have chosen a lucrative career in Silicon Valley—but he had a different vision for his life and his country.

A Rural Revolution: Bringing Silicon Valley to the Village

Perhaps what truly sets Sridhar Vembu apart is his deep commitment to rural empowerment. Instead of setting up offices in metropolitan hubs, he chose to build Zoho’s development centres in rural India, including Tenkasi in Tamil Nadu.

His vision is simple yet revolutionary: technology and talent should not be limited by geography. By training rural youth in software development, he has created a model of “rural revival through technology,” proving that world-class innovation can come from the heart of Indian villages.

Values Before Valuation

In an era obsessed with startup valuations and IPOs, Sridhar Vembu’s philosophy stands out. He believes in building a company on strong ethical values, employee happiness, and self-reliance. Zoho’s employees are encouraged to learn, innovate, and grow at their own pace—free from external investor pressure.

His approach has not only created a financially strong company but also a culture that values purpose over profit.

Awards and Recognition

Sridhar Vembu’s contributions have earned him numerous accolades, including the Padma Shri Award in 2021, one of India’s highest civilian honors. Yet, he remains grounded—often seen riding his bicycle through his village or teaching local students.

Lessons for Young Innovators

For college students and aspiring entrepreneurs, Sridhar Vembu’s story offers powerful lessons:

- Dream big but stay rooted.
- Innovation doesn’t need a city—it needs curiosity.
- Success without values is hollow.
- Empower others as you rise.

Conclusion

Sridhar Vembu's journey is not just about building a billion-dollar company—it's about redefining what success means in modern India. Through Zoho, he has proven that true innovation begins with purpose and that technology can empower even the most remote corners of the country.

As we step into a future driven by digital transformation, Sridhar Vembu's story reminds us that the next big revolution might just begin in a small Indian village.



ALUMNI CORNER

My college journey

By, Chandra shekhar singh

Mechanical Engineering

May 2011 - May 2015



My College Journey at Dr. MGR University: A Story of Growth, Friendships, and Success

College life isn't merely about lectures, assignments, and exams—it's a transformative experience that shapes our character, builds our confidence, and defines our path toward the future. My journey at **Dr. MGR University** from **May 2011 to May 2015** was one such defining chapter—a time filled with knowledge, friendships, challenges, and countless memorable moments. From the nervous excitement of my first day to the joy of receiving my first job offer, every step contributed to the person I am today. Looking back, those four years were not just about earning a degree—they were about discovering myself and learning what it truly means to grow.

The Beginning: Stepping Into a New World

I still remember my first day at Dr. MGR University as vividly as if it were yesterday—excited yet anxious, filled with curiosity and uncertainty. The vast campus, buzzing with students from diverse backgrounds, felt like a new universe waiting to be

explored. Coming from a structured school life, stepping into college felt like unlocking a world of independence and self-discovery.

It didn't take long to realize that college wasn't just about classrooms and textbooks. It was about finding opportunities, understanding different perspectives, and learning life lessons that no syllabus could ever capture.

First-Year Lessons: Adapting and Overcoming

The first year was a blend of excitement and challenge. Adjusting to university-level academics, navigating through a tight schedule, and building new friendships wasn't easy. There were moments of doubt and times when I questioned whether I could keep up with the pace.

However, those challenges soon became stepping stones. Late-night group studies, brainstorming sessions before exams, and the quiet determination to improve after every setback helped me adapt and grow. I realized that success in college isn't about perfection—it's about perseverance.

Beyond Books: Discovering My Passion

One of the most rewarding aspects of my time at Dr. MGR University was the exposure to activities beyond academics.

Being part of the **Society of Mechanical Engineers** gave me hands-on insights into real-world engineering applications. Through workshops, technical symposiums, and industrial visits, I began to appreciate the depth and creativity of mechanical design.

In addition, joining the **Event Management Club** helped me develop leadership and teamwork skills. Coordinating college fests, organizing seminars, and managing logistics taught me how to balance responsibility with creativity.

Participating in **community outreach programs** was equally meaningful—it reminded me that engineering isn't just about machines, but also about improving lives. These experiences shaped me into a more confident, empathetic, and well-rounded individual.

Memorable Moments and Achievements

My college life was a mosaic of unforgettable moments. One that stands out vividly was when my team participated in a **national-level technical competition**. We spent sleepless nights perfecting our prototype, tackling challenges head-on, and learning

from every setback. When our hard work was rewarded with a **second-place finish**, the pride and joy we felt were indescribable.

Another highlight was presenting a **research paper** at a student conference. Standing before professors and peers to share my ideas was nerve-wracking at first, but the experience boosted my confidence tremendously. It taught me that true success doesn't come by chance—it's the outcome of dedication, discipline, and passion.

The Final Year: Turning Dreams Into Reality

By the time I reached my **final year (2014–2015)**, I had evolved from a shy fresher into a confident aspiring engineer. The last stretch of college brought with it new responsibilities—major projects, internships, and the much-anticipated campus placements.

The placement season was an unforgettable time of nervous excitement. My friends and I spent hours preparing for interviews, brushing up on technical concepts, and motivating each other through every round. Then came the life-changing moment—receiving my **first job offer** from a reputed company in the engineering sector. That single piece of paper symbolized years of hard work, perseverance, and self-belief finally coming to fruition.

Gratitude and Reflections

As I bid farewell to Dr. MGR University in **May 2015**, I carried with me not just a degree, but a lifetime of memories and lessons.

I am deeply grateful to:

- **My professors**, for their unwavering guidance and mentorship.
- **My family and friends**, for their constant encouragement and belief in me.
- **Dr. MGR University**, for providing an environment that nurtured both knowledge and character.

College was more than a phase—it was a journey of transformation. It taught me resilience, compassion, leadership, and above all, the value of continuous learning. As I continue to progress in my professional life, I carry with me the essence of those four incredible years—years that not only prepared me for a career but helped me discover my purpose.

PUBLICATIONS

Article

A comprehensive review on application of machine intelligence in additive manufacturing

October 2024 - *Turkish Journal of Engineering* 9(1)

DOI: [10.31127/tuje.1502587](https://doi.org/10.31127/tuje.1502587)

Authors:



Narasimhalu Ethiraj

Dr.MGR Educational and Research Instif...



Thanapal Sivabalan



Sofia James

Dr. M.G.R. Educational and Research In...



Dommaraju Harika

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