

MAHATMA EDUCATION SOCIETY'S



# Pillai HOC College of Engineering & Technology (Autonomous)



Pillai HOCL Educational Campus, Rasayani, Khalapur, Raigad - 410207



# ALUMNI

Alumni Newsletter

# ASTRAL

2025-26

*Pillai*

MAHATMA EDUCATION SOCIETY'S

# Pillai HOC College of Engineering & Technology



MAHATMA EDUCATION SOCIETY'S  
महात्मा एज्युकेशन सोसायटीचे  
**PILLAI HOC COLLEGE OF  
ARCHITECTURE**  
पिल्लई एच.ओ.सी. कॉलेज ऑफ आर्किटेक्चर

MAHATMA EDUCATION SOCIETY'S  
महात्मा एज्युकेशन सोसायटीचे  
**PILLAI HOC INSTITUTE OF  
MANAGEMENT STUDIES & RESEARCH**  
पिल्लई एच.ओ.सी. इन्स्टिट्यूट ऑफ मॅनेजमेंट स्टडीज अँड रिसर्च

PILLAI HOC COLLEGE  
OF ARCHITECTURE

PILLAI HOC INSTITUTE OF  
MANAGEMENT STUDIES  
& RESEARCH

PARKING



## OUR INSPIRATION



**Dr.K.M. Vasudevan Pillai ,Chairman & CEO, MES**  
**Dr. Daphne Pillai, Secretary, MES**

"We are committed to provide a holistic education based on new generation academics that creates not just powerful global career options for our students, but which empowers them to be come key contributors to the community and the environment in which they live."

## VISION AND MISSION

### VISION

- To be a premier institution, cultivating diverse learners into globally competent professionals for the betterment of society.

### MISSION

- To promote continuous learning, research in fundamental and emerging areas
- To inculcate a culture of curiosity, professionalism, teamwork, innovation, and entrepreneurship among the learners.
- To enable the sharing of knowledge and expertise with industry, academic and research entities and to address global challenges effectively.

## OUR MOTIVATION



**Dr. Priam Pillai, COO, MES**



**Dr. Franav Pillai, DCEO, MES**



**Dr. Jagdish W. Bakal, Principal, PHCET**

At Pillai HOC College of Engineering & Technology, our teaching and learning approach aims for a balanced mix of skills, knowledge, and the right attitude. We emphasize understanding core concepts in each course and encourage interdisciplinary thinking through problem-solving, group projects, and hobby clubs. Our campus offers a unique environment that fosters culture, art, sports, and values. Student societies provide platforms for competitive extracurricular activities, enhancing both individual and teamwork skills.



**Prof. Rahul Kapse  
Chairman Alumni Committee, PHCET**

On behalf of the Alumni Committee, I welcome you. One of our goals is to preserve a mutually beneficial, enduring relationship among alums and with the PHCET.

We are constantly seeking meaningful ways to embrace your needs and unite our efforts in the name of PHCET.

I urge you to become an active alumni and share in the exciting activities and opportunities this organization has to offer. There are a variety of ways you can show appreciation and play a part in PHCET's continued success. This includes attending events, cheering for our teams, staying connected to each other and the PHCET, and of course, offering your time and gifts to help PHCET students. Through Newsletter : get involved with the Alumni Association, read about inspiring alumni accomplishments, find out about upcoming alumni activities, learn about on-campus events, volunteer and much more. Wherever you are, at whatever stage of life you are in, there's something here for you. I encourage you to share and use this Newsletter as one way to engage with the Alumni Association and maintain your personal connection to the Institute.

We are excited about the direction and future of the PHCET Alumni Association and look forward to serving and sharing information with you, throughout the year.



**LIST OF HOD AND ALUMNI CO-ORDINATOR**



**Dr Manvendra Vashishtha**  
HOD of Applied Science and Humanities



**Dr. Amar Jadhav**  
HOD of Automobile Engineering



**Dr. Raju Narwade**  
HOD of Civil Engineering



**Dr. Rajashree Gadhave**  
HOD of Computer Engineering



**Prof. Pranita Chavan**  
HOD of Electrical and Computer Engineering



**Dr. Mansi Subhedar**  
HOD of Electronics and Computer Science Engineering



**Prof. Rahul Kapse**  
HOD of Information Technology



**Dr. Gajendra Patil**  
HOD of Mechanical Engineering



**Prof. Vivek Meshram**  
Alumni Co-ordinator of Automobile Engineering



**Prof. Manisha Jamgade**  
Alumni Co-ordinator of Civil Engineering



**Prof. Shrutika Khobragade**  
Alumni Co-ordinator of Computer Engineering



**Prof. Aamir Shaikh**  
Alumni Co-ordinator of Electrical and Computer Engineering



**Prof. Priya Tambe**  
Alumni Co-ordinator of Electronics and Computer Science Engineering



**Prof. Sarita Labde**  
Alumni Co-ordinator of Information Technology



**Prof. Aditya Shinde**  
Alumni Co-ordinator of Mechanical Engineering



## DEPARTMENT OF CIVIL ENGINEERING

### **Dreams Built with Determination – A Message to My Juniors**

When I first enrolled in a Construction Management Post graduation program, I never imagined I would become a University Topper. My journey was challenging; I was balancing my studies while working as a Project Manager at J. Kumar Infraprojects Ltd., where I managed site responsibilities, deadlines, and technical challenges. This demanding dual role taught me that limitations are often self-imposed, and I learned that time management is about creating opportunities rather than waiting for them. By planning my days meticulously using early mornings for revision and weekends for in-depth study, I turned small, disciplined efforts into significant progress.

I am extremely thankful to HOD Mr. Raju Nagawade Sir, my Project Guide Mrs. Manisha Jamgade Madam, and all the teaching and non-teaching staff who supported and guided me at every stage of my post-graduation journey.

Additionally, working while studying provided me with invaluable practical experience, allowing me to see theories from my textbooks applied in real-world scenarios. This integrated learning deepened my understanding and reaffirmed the importance of applying knowledge to solve real problems. To my juniors, I emphasize that discipline often trumps motivation; persistence and routine are key to achieving goals. Embrace failures and doubts, as they are natural steps in t

the learning process. Remember, your starting point does not define your destination. Dream ambitiously, plan realistically, and remain committed to your growth—just as great structures are built on strong foundations, so too can you build a successful future with careful planning and relentless effort.



**Santosh A. Bobade**

### **Poem**

It starts with a dream, a measured line,

Learnt in books, tested by time.

Plans meet earth, through sweat and strain

Hands build strength in sun and rain.

Years pass on, yet work stands free—

Civil engineers shape history.



**Mr. Kunal Kandpal, Batch 2016**



## Civil Engineering: A Career with Purpose and Pride

Civil engineering is more than a technical discipline; it is a profession rooted in service, responsibility, and long-term impact. As one of the most real-time and application-driven branches of engineering, civil engineering transforms ideas, designs, and calculations into infrastructure that directly supports everyday life. Roads, bridges, buildings, water supply systems, and transportation networks all stand as visible contributions of civil engineers to society.

What makes civil engineering uniquely fulfilling is the tangible nature of its outcomes, which can be seen, experienced, and used by society every day. Civil engineers experience the rare satisfaction of seeing their work take physical shape—structures that serve communities, support economies, and endure for generations. This direct connection between effort and impact instills a deep sense of pride and purpose, making the profession especially inspiring for young engineers who seek meaningful careers.

In the context of global development, civil engineering plays a vital role in achieving the United Nations Sustainable Development Goals (SDGs). The field actively contributes to Clean Water and Sanitation (SDG 6), resilient infrastructure and innovation (SDG 9), Sustainable Cities and Communities (SDG 11), Responsible Consumption and Production (SDG 12), and Climate Action (SDG 13).

Through the use of sustainable materials, resource-efficient designs, green construction practices, and resilient infrastructure planning, civil engineers balance development with environmental responsibility.

As urbanization accelerates and environmental challenges grow more complex, the relevance of civil engineering continues to increase. Institutions like Pillai Civil Engineering College prepare future engineers by combining strong technical foundations with practical exposure and an emphasis on sustainability and ethics. Civil engineering offers not just a profession but an opportunity to shape the

world responsibly—making it a career defined by purpose, pride, and lasting contribution.



**Ms. Gayatri Pathak , Batch 2015**

## Journey as an alumnus of BE and Masters in Construction Engineering

Proud to share my professional journey as an alumnus of Pillai HOC College of Engineering and Management.

I completed my B.E. in Civil Engineering (2014) and M.E. in Construction Engineering & Management (2017) from PHCET. I have 11.5 years of experience



in infrastructure projects, mainly in underground and elevated metro projects, with expertise in execution, planning, and billing.

Currently, I am working with Tooltech Global Engineering Pvt. Ltd. as Senior Manager – Planning & Control on the Thane Ring Metro Project.

This journey would not have been possible without the guidance, support, and strong academic foundation provided by the faculty of the Civil Engineering Department, PHCET. I am truly grateful to all my professors for their mentorship during my B.E., M.E., and thesis work.

Proud to be a PHCET Civil Engineering alumnus and thankful to my alma mater for shaping my career.



**Mr. Suhas Awari , Batch 2014**

## **Journey as an alumnus of BE and Masters in Construction Engineering**

My journey began as a Civil Engineering student At Pillai HOC College Of Engineering And Technology, driven by curiosity and ambition. Over the years, education, practical exposure, and perseverance shaped my path, allowing me to grow into multiple leadership roles within the construction and development industry. Today, I proudly serve as a Structural Designer, Builder, Developer, Partner, and Director, contributing to the growth of residential and commercial infrastructure.

My engineering education laid the technical foundation for everything I do today. Subjects related to structural design, construction technology, and project management helped me understand the importance of safety, accuracy, and sustainability. Engineering college not only strengthened my technical skills but also instilled discipline, ethical values, and problem-solving abilities.

Entering the professional world as a Structural Designer allowed me to apply engineering principles to real-life projects. Designing safe, economical, and durable structures taught me the responsibility that comes with engineering decisions.

As a Partner at Sahyadri Buildcon, a leader in the building construction industry, I am actively involved in executing high-quality residential and commercial projects.



I am also a Partner with Mudra Group, one of the leading developers in Karjat, where we are developing modern residential and commercial complexes. This partnership allows me to contribute to planned urban growth by combining innovative design, quality construction, and customer-centric development. In my role as Director at Sahyadri Planners and Designers, I oversee architectural planning, structural design, and project consultancy services. This position enables me to integrate creativity with engineering precision, ensuring every project meets functional, aesthetic, and safety standards.

Across all my roles, my core focus remains the same—quality construction, structural safety, ethical practices, and long-term value creation. I believe successful projects are built on trust, transparency, and technical excellence.



**Pawan Medage, Batch 2018**

### **Journey as an alumnus of BE and Masters in Construction Engineering**

Beginning my engineering journey in 2020 amid the COVID-19 pandemic was a unique start to college life. The entire first year was conducted online due to lockdown restrictions. At the time, virtual lectures and online examinations felt

convenient and even enjoyable, however looking back now, I realize that this period shortened the experience of college life.

After graduating in 2024, I started my career as a Graduate Engineer Trainee at Marathon Realty Pvt. Ltd. The year long training across departments like Planning, Estimation, Contracts, Site Execution, and Quality gave me strong exposure to real estate project management and strengthened both my technical skills and practical confidence.

I now work as Senior Executive Project Contracts on a 64 Storeyed High Rise Luxurious Residential Project in Byculla, Mumbai in joint venture with Adani Realty. Working on such a large-scale luxury development has expanded my learning and sharpened my professional abilities.

Simultaneously pursuing M.Tech in Construction Engineering and Management while managing professional responsibilities has further reinforced the importance of discipline, adaptability, and continuous self-improvement.



**Raj Rane , Batch 2024**



## DEPARTMENT OF COMPUTER ENGINEERING

### The Journey of Prathamesh Deshmukh

It took me five years to complete my engineering instead of the usual three. I joined Pillai HOC College of Engineering in 2010 through direct second-year admission after completing my diploma. Ours was the very first engineering batch of the college, and campus life played a big role in shaping me. The college had excellent sports facilities, and I actively participated in almost every sport. I represented the college in volleyball at the university level and was part of the team that won the zonals — experiences that taught me discipline, teamwork, and resilience early on.

Academically, my journey was not smooth. I had multiple KT's in my second year and faced a major setback after my third year when I was unable to clear my Mathematics KT, leading to a two-year drop. After my first drop, it felt like everything had come to a standstill. Instead of giving up or sitting idle at home, I made a conscious decision to work. I joined Rediffmail and spent those two years gaining real-world corporate exposure. That phase changed my life it helped me understand how businesses operate, how customers think, and where my natural strengths lay.

I eventually cleared my final year in the first attempt and joined a startup, where my journey in Customer Success truly began. Like many students, I was initially unsure about my long-term career direction, but over time I realized that my strengths were communication, problem-

solving, and relationship-building. This realization guided me toward Customer Success roles in SaaS companies.

Over the years, I worked with organizations such as Salesforce, Rediff.com, Resilinc, and EdCast, and today I lead the Customer Success function as a Director at MapMyCrop.

My journey has taught me that setbacks don't define us — resilience, adaptability, and continuous learning do.



**Prathamesh Deshmukh, Batch 2017**

### Reflections from Campus to Career

Thinking back to my college days brings a sense of nostalgia like familiar corridors, shared deadlines, and experiences that quietly shaped my journey. My time at Pillai HOC Institute of Technology helped nurture curiosity and build a strong academic foundation, allowing me to understand core fundamentals that later proved essential in my professional role.

As I progressed, my interest naturally inclined toward front-end development, where technology meets creativity. An internship during college gave me early exposure to translating ideas into user-focused designs. Concepts that once seemed purely academic such as working with databases



and SQL queries are now an active and enjoyable part of my work, reinforcing the value of strong fundamentals and continuous learning.

Equally important were my experiences with CSI PHCET and HackOverflow, which helped shape qualities beyond technical skills. Taking on responsibilities through these platforms strengthened my sense of ownership, leadership, communication, and the ability to collaborate with diverse teams while delivering tasks within timelines.

Today, I apply these learnings while working on creative, user-centric solutions and taking accountability for assigned responsibilities. I remain deeply grateful to my college for the experiences, exposure, and lessons that continue to guide my growth.

To the juniors reading this: Trust the process. Focus on building strong fundamentals, stay curious, and make the most of every opportunity college offers. The learnings you gain here will support you long after you step into the professional world.



**Paavana Shetty, Batch 2023**

## **“Bas Degree Le Lo” – The Sentence That’s Never Finished**

Every Indian student has heard this sentence at least once: “Bas degree le lo, baaki sab ho jaayega.” It’s usually said with confidence, as if the degree itself is a magic switch that automatically fixes everything.

But there’s a silent sentence no one adds after that. What actually happens is the process. The time it takes, the confusion, the pressure, the friendships, the failures, and the small wins all of it quietly shapes you into a person you didn’t even know you could become. College doesn’t suddenly change your life after the degree; it changes you while you’re chasing it.

At first, college feels like it’s only about exams, attendance, and deadlines. But somewhere between bunked lectures and last-minute submissions, you start learning things that were never part of the syllabus. You learn how to deal with stress, how to ask for help, and how to fail and still show up the next day.

During my college time, I didn’t just study. I met some amazing seniors and classmates who shared knowledge freely, guided me when I had no clarity, and pushed me to try things beyond my comfort zone. Along with that, I found a group of friends who turned even the most ordinary days into memories I’ll carry for life. Those conversations after classes, during events, or late at night shaped me more than any textbook ever could.



One important lesson I learned from them was simple: work hard, but don't forget to live. Attend events. Participate in competitions. Build skills. And most importantly, have fun. You're not machines designed only to clear exams you're people, growing up and figuring life out.

One of the best decisions I made in college was attending hackathons. Being from the computer science department, it started as curiosity but quickly turned into confidence. Hackathons taught me problem-solving, teamwork, and how to think under pressure. Eventually, those experiences inspired my friends and me to host our own hackathon. Being part of organizing it from idea to execution remains one of the most exciting and memorable experiences of my college life.

As college comes to an end, time starts moving differently. People move to different cities, schedules stop matching, and "let's meet soon" slowly turns into months or years. That's when you realize why these years matter so much not just for careers, but for the connections and memories you build.

At the same time, real growth doesn't come from one big moment. It comes from small, consistent effort. In Atomic Habits, there's a powerful idea: improving by just 1% every day may feel insignificant, but over time it compounds. In fact, 1.01 raised to 365 becomes nearly 37 times better. That's exactly how college works one skill learned outside the syllabus, one event attended, one meaningful conversation, repeated regularly.

So yes get the degree. It matters. But don't wait for life to start after it. Work on yourself, explore, fail, laugh, and build memories while you can. Because "baaki sab" doesn't magically ho jaata. It happens here in these years, with these people, through this journey.

And one day, you'll look back and realize that college didn't just give you a degree it gave you stories, friendships, and a version of yourself you'll always be proud of.

### **A reflection on college, growth, and everything we learn beyond the syllabus.**



**Karan Savaliya, Batch 2023**

### **Perception on IT Project Management**

When I transitioned into IT project management, I treated the job like a math problem: I thought if I planned the variables perfectly, the result would be perfect. I quickly learned that software development is messy, human, and unpredictable. Here are the core lessons on leadership and coordination that saved my sanity:

1. The Stewardship of Creative Energy I learned that my team members are not machines; they are artisans. My true role shifted from taskmaster to guardian. I became a shield against the erratic winds of constant change, preserving a "flow state" where their creativity could flourish without the anxiety of interruption. It is about respecting the human cost of context switching



and ensuring the team feels safe enough to build their best work.

2. **The Bridge of Empathy** There is often a vast emotional distance between the builders and the dreamers or stakeholders. I stopped being a mere courier of updates and became a translator of intent. By articulating the soul of the technology to the business and explaining how a technical struggle translates to user delight, I fostered a sense of shared purpose. When people feel understood, the friction of the project melts away.

3. **Leadership as a Safety Net** True leadership is not about standing at the front; it is about standing beneath. I realized that innovation only happens when people are not afraid to fall. I made it my mission to cultivate "psychological safety" which is an environment where a mistake is viewed as a lesson rather than a failure. When I absorbed the pressure and blame from the outside, my team gained the courage to attempt the extraordinary.

4. **Coordination: Orchestrating the Human Tempo** I used to think coordination was just syncing calendars. I discovered it is actually about syncing temperaments. Every engineer has a unique rhythm where some sprint while others ponder. My job became that of a conductor, blending these distinct personalities into a single, harmonic motion. It requires deep listening to sense when burnout is approaching and the emotional intelligence to pause the music before the melody breaks.

5. **The Courage of Radical Transparency** Trust is the currency of coordination. I learned that "spinning" bad news destroys that trust. I started practicing radical vulnerability by admitting when I was lost, when plans were failing, or when the timeline was impossible. This honesty stripped away the corporate facade and allowed us to bond as humans facing a challenge together, rather than employees hiding behind status reports.

6. **Finding Stillness with Notion** In the cacophony of endless demands, I realized I needed a silent anchor for my own peace of mind. I turned to Notion, not as a public dashboard, but as a personal sanctuary. It is where I untangle the day's chaos into structured thought, privately tracking my own commitments and reflections. It serves as my quiet "second brain," ensuring that while the world around me moves fast, my own perspective remains grounded, organized, and calm.



**Ronit Patil**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Role of Digital Twins in Healthcare**

Digital twins in healthcare are emerging as a powerful paradigm for modeling, monitoring, and optimizing complex biological systems by creating high-fidelity virtual replicas of patients, organs, or clinical processes. These twins integrate multi-source data—such as electronic health records, medical imaging, genomics, and real-time sensor inputs—with mechanistic physiological models and data-driven AI techniques. By continuously synchronizing with their physical counterparts, healthcare digital twins enable simulation of disease progression, prediction of treatment outcomes, and evaluation of intervention strategies under varying conditions, all without direct risk to the patient.

From a clinical and operational perspective, digital twins support personalized medicine by enabling clinicians to test “what-if” scenarios, such as drug dosage adjustments or surgical planning, tailored to individual patient characteristics. In chronic disease management, they facilitate continuous monitoring and early warning systems by forecasting adverse events before they occur. At a system level, digital twins are also applied to optimize hospital workflows, resource allocation, and medical device performance. As computational power, interoperability standards, and explainable AI models advance, digital twins are poised to become a core component of next-generation, precision-driven healthcare ecosystems.



**Prachi Sorte , Batch 2017**

**From Student to Innovator: My Journey as an Alumnus.**

“Signals in the Stack”

In dawn’s agentic AI, routines unfold,  
Intents expressed, not just commands told,  
Autonomous logic weaves through every thread,  
Scripting the future where the machines tread.  
Shadow stacks emerge, self-hosted, wild,  
Open source deployed — a network’s child,  
Yet gateways unguarded whisper risks untold,  
As misconfigurations bloom and dangers grow bold.  
Cloud 3.0 hums with hybrid skies,  
Multi-cloud realms where data flies,  
Servers dance with edge and core,  
Optimizing workloads evermore.  
Cyber guards, now smart and keen,  
AI sentinels scan every scene,  
Predict, prevent — at machine speed react,  
Against threats both human and abstract.  
Quantum whispers from tomorrow’s gate,  
Cryptic codes recalibrate fate,  
Encryptions ready for coming storm,  
Post-quantum shields in newer form.  
Tech sovereignty and governed AI,  
Balance freedom with watchful eye,  
Risk as a compass, trust as the frame,  
In this ever-shifting digital game.  
So here in silicon arcs we chart,  
The pulse of progress, logic’s heart —  
Where every trend and paradigm bend  
Becomes tomorrow’s tech-poetic blend.



**Shibani Bose, Batch 2022**



### **A Celebration of Memories, Milestones, and Meaningful Connections.....**

The Alumni Meet is a cherished occasion that brings together the past and present of our institution under one roof. It serves as a vibrant platform where former students reconnect with their alma mater, relive treasured memories, and celebrate the journeys that began within these very walls.

The event was filled with nostalgia as alumni from different graduating batches gathered to share experiences, laughter, and stories from their student days. The familiar campus atmosphere, once again alive with friendly conversations and smiles, reminded everyone of the bonds that time and distance can never weaken.

The program commenced with a warm welcome address, followed by inspiring messages from the institution's leadership. Speakers highlighted the growth and achievements of the institution over the years, while also acknowledging the invaluable contributions of alumni in shaping its legacy. Several alumni shared their personal and professional journeys, offering motivation and insight to current students.

Cultural performances and interactive sessions added color and energy to the event, creating moments of joy and engagement. Old friendships were rekindled, new connections were formed, and the spirit of unity was strongly felt throughout the meet.

The Alumni Meet concluded on a hopeful note, reinforcing the idea that alumni are lifelong members of the institution's family. It strengthened the bridge between generations and reaffirmed a shared

commitment to growth, collaboration, and giving back.

The event was not just a reunion—it was a celebration of shared roots, collective success, and a future built together.

**Vaishnavi Dhumal , Batch 2022**



## DEPARTMENT OF ELECTRICAL ENGINEERING

### EXPERIENCE Shared BY Shubham Patil

Pillai HOC College of Engineering and Technology was a platform for me to boost my technical, practical as well as social knowledge. Being an Electrical Engineer I gain technical knowledge from well-equipped laboratories. College library is one of the biggest sources of my theoretical knowledge. Organizing the various technical events and extracurricular activities are the path to travel in the direction of improving my personality. I have completed professional course of automation at Precon automation & systems private limited. Now I am working as technical consultant in Rexel India Pvt. Ltd. company of automation where I am applying my basics to achieve tasks. I am thankful to my college for the guidance and knowledge due to which I am at reputed post.



**Shubham Patil, Batch 2020**

### EXPERIENCE Shared BY Kamal Joshi

Hello everyone, I am Kamal Joshi, Electrical branch alumni. My department always supported me in all the activities I did. I was a part of NSS, Team Starkers' motorsports as well as I've secured a great position in sports like wrestling and different powerlifting games. This really helped me in my professional career and it also helped me boost my confidence. I won silver medal at Mumbai University wrestling championship. Currently I am working in Kent Engineering Pvt. Ltd. company and involved in sports which boosts my career.

Recently I won wrestling championship which is huge recognition while working and I am happy to say it is all because of support I got from my college.



**Kamal Joshi, Batch 2021**

### EXPERIENCE Shared BY Sritika Haldar

Hello everyone, My name is Sritika Haldar from the batch 20221, I'm from the electrical department. I'm extremely thankful to this college for giving me the opportunity to participate in various extracurricular activities, festivals and various departmental activities. With the help of this college and my dedicated department I'm currently placed in Torrent Power. The library at PHCET has amazing resources and it was my favorite spot in this college. I thank everyone for the love and exposure they have given me at PHCET Rasayani. In Torrent power, I am doing excellence in my work where I am getting rewarded for which I am thankful to my Electrical Engineering department and college PHCET.



**Sritika Haldar, Batch 2021**



### **EXPERIENCE Shared BY Viraj Mhatre**

As an alumni of Pillai HOC College of Engineering, I reflect on those transformative years with immense gratitude. College provided not only academic knowledge but also invaluable life experiences. The vibrant campus culture, diverse community, and rigorous coursework shaped my perspectives and fostered personal and professional growth. Engaging discussions, collaborative projects, and mentorship from inspiring faculty members enriched my learning journey. Beyond the classrooms, extracurricular activities and student organizations instilled leadership skills and lasting friendships. The bond serving as a foundation for my career and lifelong connections. College, for me, was a crucible of self-discovery and preparation for the challenges that lay ahead. I have gained expertise in drone assembling, modelling and flying during one year apprenticeship. I am now working at JNPT in electrical field where I am using knowledge which I learned during my studies at PHCET.



**Viraj Mhatre, Batch 2022**

### **Freedom Without Responsibility: Civic Sense Crisis in Contemporary India.**

“We don't inherit the earth from our ancestors, we borrow it from our children.”

This quote is a perfect expression of the notion that freedom becomes meaningless when it is not accompanied with responsibility. The absence of civic sense has become a popular topic of discussion in India today, and it is manifested in the

real-life. The stories of the recent events, like a viral video of a man urinating on a metro station platform or pictures of a new Vande Bharat Sleeper train that was littered within a few hours of its inaugural run have caused controversies across the country. Concurrently, we have also seen videos of passengers that properly pick up and dispose of their waste, which reminds us that civic behaviour is a choice. These opposite examples demonstrate the extent to which personal habits can shape the space of the communities and determine the image of the nation.

The origin of this crisis is a biased interpretation of liberty. Although citizens are fast to claim their rights, the willingness to accept responsibility is usually lacking. Despite the clear enumeration of basic responsibilities in the Constitution of India, they are hardly translated into everyday behavior. They disregard traffic regulations, violate queues, and neglect the well being of the local property, even in situations where there is adequate infrastructure. This is the testament that civic sense is not a matter of education, affluence, or social standing, but of attitude. It is a vital mistake to blame the government, and ignore a very important fact, that no system can operate, unless the people are willing to assist in its running, by exercising a disciplined behaviour, and by respecting one another.

Civic sense should be thought of as responsible deed. It cannot be cultivated by laws, fines, social media protests, but by daily decisions, by pulling up in time at the lights, putting in the garbage, not encroaching on others, and politely correcting bad manners. Youth, and in particular, students have an important role in the establishment of examples and the development of social norms. A developed country cannot be judged by its infrastructure or economic development but by the way its people



conduct themselves in the life of the people. When freedom is redefined in a way that it encompasses responsibility, then India can be a step closer to being a cleaner, safer and more respectful society- one that is worthy of being handed over to the future generations.



**Gaurav Shyam Bahadur Jaiswal,  
Batch 2024**

## Professional Exposure & Site Experience

### 1. Latur 20MW Project

On-site involvement in a utility-scale solar power project.



### 2. Palava City 2MW Project

On-site engagement at a rooftop solar power project.



And several other projects have further contributed to my professional growth.

## Training & Skill Development

Sharing knowledge and practical skills has been an important part of my journey. I have trained over 90 students in solar energy, and my efforts in skill

development were recognized through an appreciation certificate from the Taloja Central Jail Head Authority.



## Teaching and skill-sharing remain a core part of my professional journey.

### Learning & Professional Development

Continuous learning has been a key part of my professional journey. I have completed advanced courses in solar power systems and green hydrogen, strengthening my technical expertise and preparing for future entrepreneurial initiatives.

### 1.TATA Power Solar Power System Course

Receiving Solar Power System course certificate at TATA POWER



### 2.Green Hydrogen Certificate

Green Hydrogen Plant Entrepreneur course completed at SCGJ's RPL Centre (NCVET recognized).



**Professional Interactions / Networking**

Networking with industry professionals to exchange knowledge and insights.



Engaging with industry professionals has broadened my understanding of renewable energy practices and leadership perspectives.

**FROM CLASSROOM TO CLEAN ENERGY:  
A JOURNEY INSPIRED BY PHCET**

My journey after graduating from Pillai HOC College of Engineering & Technology has been shaped by the strong academic foundation, discipline, and values I gained during my years on campus. PHCET played an important role in nurturing my interest in engineering and practical problem-solving.

I am currently working in the renewable energy sector and have contributed to large-scale solar power projects, with a focus on safe and reliable execution. My work has provided opportunities to travel, take on new challenges, and interact with

professionals across the renewable energy ecosystem, helping broaden my technical understanding and professional outlook.



Alongside my professional responsibilities, I strongly believe in sharing knowledge and creating opportunities for others to learn. This belief has led me to train more than 90 students in solar energy, including the unique experience of conducting training programs for inmates at a Taloja Central Jail. These experiences reinforced my belief that technical education can positively impact lives beyond classrooms and workplaces.

To prepare for greater responsibilities and future leadership, I continue to invest in learning and skill development. As part of this journey, I completed a Green Hydrogen Plant Entrepreneur course at SCGJ's RPL Centre, recognized by NCVET, and I am currently pursuing an automation course to stay aligned with evolving industry needs.

As Sansmruti celebrates memories and lifelong connections, I remain grateful to PHCET for instilling the values of curiosity, responsibility, and continuous learning that continue to guide my professional journey.



**Karan Revaskar, Batch 2024**



## Department of Electronics and Telecommunication Engineering

### **EXPERIENCE SHARED BY VIRAJ PATEKAR**

Being a student of the Electronics and Telecommunication (EXTC) branch has been one of the most enriching phases of my academic journey. Our department has always been more than just classrooms and laboratories—it has been a place where ideas were nurtured, curiosity was encouraged, and confidence was built.

I fondly remember the countless hours spent in well-equipped labs, working on circuits, communication systems, simulations, and projects that helped us connect theory with real-world applications. What made this journey truly special was the constant support and guidance from our teachers. They were always approachable and motivating, encouraging us to strive for excellence both academically and professionally.

The department consistently encouraged us to participate in technical competitions, workshops, internships, and industry-oriented training programs. These opportunities strengthened our technical foundation and helped us develop problem-solving skills, teamwork, and adaptability. The mentorship we received played a crucial role in shaping our career paths.

Beyond academics, the department fostered a strong sense of belonging and friendship. Group studies, technical festivals, departmental events, cultural activities, and informal discussions created memories that we will cherish for a lifetime. The encouragement we received during challenging

times helped us build confidence and resilience.

Today, as an alumnus, I feel proud to be associated with the EXTC department. The values, knowledge, and discipline instilled in us continue to guide me in my professional journey. I am deeply grateful to all my teachers, mentors, and staff members who believed in us and supported us at every step. I look forward to staying connected with my alma mater and contributing in every possible way to the growth and success of future generations.



**Viraj Patekar, Batch 2024**

### **EXPERIENCE SHARED BY HARSH PATIL**

Being a student of the Electronics and Telecommunication (EXTC) department has been one of the most memorable and meaningful chapters of my life. The department was not only a place for academic learning but also a space where we grew as individuals, professionals, and responsible citizens.

From attending regular lectures and working in well-equipped laboratories to completing challenging projects and practicals, every experience helped shape our technical foundation. Our teachers were constant pillars of support, always guiding, motivating, and encouraging us to aim higher. Their



dedication and belief in our potential played a vital role in building our confidence.

One of the most cherished memories of our college life is the annual cultural fest Euforia, where we came together to celebrate creativity, talent, and teamwork. Whether it was performing on stage, volunteering behind the scenes, or cheering for friends, Euforia gave us moments that we will treasure forever.

The department's active involvement in IETE activities provided us with valuable exposure to technical seminars, workshops, guest lectures, and industry interactions. These platforms helped bridge the gap between academics and real-world applications, preparing us for future challenges.

Equally special were our departmental celebrations, including Dasara and Diwali, which brought warmth, joy, and togetherness. These events strengthened our bonds and reminded us that our department was truly a second family. The memories of freshers' parties and send-off ceremonies remain close to our hearts, as they marked the beginning and the completion of beautiful journeys, filled with laughter, emotions, and gratitude.

Beyond academics and events, the department nurtured a culture of respect, discipline, and mutual support. Group studies, late-night project discussions, friendly competitions, and informal conversations in corridors and labs created lifelong friendships and unforgettable experiences.

Today, as an alumnus, I feel immensely proud to be

associated with the EXTC department. The values, knowledge, and life lessons imparted to us continue to guide me in my professional and personal life. I am sincerely grateful to all our teachers, mentors, and staff members for shaping us into confident and responsible individuals.

I look forward to staying connected with my alma mater and contributing towards the growth and success of the department and its future students.

**Harsh Patil , Batch 2022**



## DEPARTMENT OF MECHANICAL ENGINEERING

### **Go-Kart Design and Manufacturing: A Journey from Concept to Creation**

#### Introduction

The world of automobile engineering offers endless opportunities to innovate, experiment, and bring ideas to life. One of the most engaging and practical projects for budding engineers is Go-Kart design and manufacturing. During my time at Pillai HOC College of Engineering and Technology (PHCET), participating in Go-Kart competitions was more than just an academic exercise—it was a real-world test of teamwork, technical understanding, and creative engineering.

#### Concept and Objective

A Go-Kart is a small, four-wheeled racing vehicle designed to provide a fundamental understanding of automotive systems such as the chassis, transmission, braking, and steering mechanisms. The objective of designing and manufacturing a Go-Kart at PHCET was to:

- Apply theoretical knowledge to real-world automotive problems.
- Develop engineering judgment in terms of design optimization, material selection, and safety implementation.
- Cultivate teamwork, leadership, and project management skills through a hands-on engineering experience.

#### Design Phase

##### 1. Conceptualization

The process began with brainstorming sessions with our team and mentors. We analyzed existing Go-Kart models and performance parameters such as weight distribution, driver ergonomics, and acceleration efficiency. Our design

philosophy revolved around simplicity, performance, and safety.

##### 2. Chassis Design

The chassis serves as the backbone of the vehicle. Using SolidWorks, we designed a lightweight mild-steel tubular frame that could withstand dynamic loads while maintaining structural rigidity. Finite Element Analysis (FEA) was performed to simulate the stress and strain distribution under various loading conditions.

##### 3. Steering and Suspension

A simple mechanical steering system with Ackermann geometry was adopted to ensure smooth cornering with minimal tire wear. Since Go-Karts primarily operate on smooth tracks, we opted for a rigid rear axle and no suspension system, reducing complexity and cost without compromising stability.

##### 4. Transmission and Powertrain

We carefully selected a 4-stroke, 150cc petrol engine for its balance between performance, efficiency, and availability. Power transmission was achieved using a chain drive system.

##### 5. Braking System

Safety being a top priority, we employed a disc brake on the rear axle, offering reliable braking performance and quick response times. Dual-pedal systems were designed for intuitive and ergonomic driver control.

##### 6. Ergonomics and Safety

Driver comfort was ensured by optimizing the seat position, steering wheel angle, and pedal reach. The Go-Kart also featured a roll bar, seat



harness, and padding to enhance driver safety during high-speed maneuvers.

### Manufacturing Phase

Once the design was finalized, the manufacturing stage was executed in PHCET's Mechanical Workshop.

- The frame was welded using MIG welding techniques for precision and strength.
- Components such as steering arms, mounts, and brackets were fabricated in-house.
- The powertrain assembly and wheel alignment required multiple iterations to achieve optimal performance.

Regular mentor reviews helped us troubleshoot issues such as chain alignment, weight imbalance, and excessive vibration.

### Testing and Validation

Before final deployment, the Go-Kart underwent extensive testing on dynamic parameters such as acceleration, braking, and handling. Real-world observations helped us fine-tune gear ratios and balance to achieve a smooth and responsive driving experience.

Our team proudly represented PHCET in national-level Go-Kart design competitions, where we showcased not only our technical capabilities but also the spirit of innovation fostered at our alma mater.

### Lessons Learned

The Go-Kart project was more than a technical exercise—it was a practical education in teamwork, perseverance, and engineering ingenuity. From facing design challenges to working under tight deadlines, every step refined our problem-solving and communication skills—qualities essential in any professional engineering environment.



### Conclusion

Designing and manufacturing a Go-Kart at PHCET Engineering College remains one of the most memorable and enriching experiences of my academic journey. It demonstrated the essence of engineering: turning ideas into reality through creativity, analysis, and collaboration. The project strengthened our confidence to take on real-world challenges and reaffirmed that true engineering begins in the workshop, not just the classroom.

### ALL-TERRAIN VEHICLES (ATVS)

As an alumnus of PHCET, and a former **Captain of Starkers Motorsports**, my understanding of engineering was shaped not only by classrooms and exams, but by grease-stained hands, late-night design reviews, and countless hours spent testing vehicles on unforgiving terrain. Among all the projects we worked on, designing and building an **All-Terrain Vehicle (ATV)** remains one of the most defining experiences of my engineering journey.

### What an ATV Truly Represents

An ATV is far more than an off-road vehicle. It is a test of an engineer's ability to design for uncertainty. Mud, rocks, slopes, water, and impact loads do not behave predictably, and that is exactly what makes ATVs such a powerful learning platform. Every component must be



designed with durability, safety, and performance in mind, often under strict constraints of budget, weight, and time.

For us at Starkers Motorsports, the ATV was not just a machine—it was the outcome of teamwork, leadership, and relentless problem-solving.

**Design Philosophy: Engineering with Purpose**  
**Chassis – The Backbone of the Vehicle**

The chassis was the first and most critical design decision. As captain, ensuring structural safety while maintaining weight efficiency was a constant balancing act.

- **Material selection** focused on high strength and weldability.
- **Space-frame design** allowed effective load distribution during jumps and impacts.
- **Ground clearance** was carefully optimized to handle rough terrain without compromising stability.

Design validation using CAD and basic structural analysis taught us the importance of engineering justification behind every weld and tube.

### **Suspension: Learning from the Terrain**

Unlike go-karts, ATVs demand a robust suspension system.

- Independent suspension systems helped maintain tire contact on uneven ground.
- Shock absorbers were tuned through trial and error—no simulation replaces real testing.
- Suspension geometry taught us the real meaning of camber, caster, and toe beyond textbooks.

Watching the vehicle absorb terrain shocks during testing was one of the most satisfying moments as a team leader.

### **Powertrain and Drivetrain Decisions**

Off-road performance is all about **torque delivery**, not top speed.

- Engine selection focused on reliability and low-RPM performance.

- Gear ratios were chosen to climb inclines and navigate obstacles.
- Drivetrain alignment and mounting were critical to reduce vibration and failures.

This phase reinforced how interconnected vehicle systems truly are—one poor decision affects everything.

**Steering, Braking, and Control**

Precision and safety defined our approach.

- Rack-and-pinion steering ensured quick and predictable response.
- Hydraulic disc brakes provided consistent stopping power in muddy conditions.
- Ergonomics were refined.

As captain, ensuring driver confidence was as important as mechanical performance.

### **Manufacturing**

The manufacturing phase was where leadership mattered most.

- Coordinating fabrication schedules, material procurement, and manpower tested project management skills.
- Welding inaccuracies, alignment issues, and component failures became lessons—not setbacks.
- Every mistake improved our understanding of **design for manufacturability**.

Those long nights in the workshop taught us accountability, patience, and pride in craftsmanship.

**Testing, Failure, and Growth**

No ATV is perfect on the first run.

Components failed. Mounts cracked. Handling needed refinement. But each failure pushed us forward. Testing wasn't about proving success—it was about exposing weakness. As captain, learning to stay calm, motivated, and solution-oriented during setbacks was the biggest leadership lesson.

**Tanmay Salanke**



**EMINENT ALUMNI**



**Mr. Sanket Dinkar Mhatre**  
Designation: MPSC Group C  
( Revenue Assistant )  
Company: Kokan Bhavan (CBD  
Belapur),Maharashtra Government  
Pass out Year : B.E. 2019  
Branch: Civil



**Mr. Pawan Vilas Medage**  
Designation: Director  
Company: Sahyadri Planners And  
Designers, Partner - Sahyadri Buildcon,  
Partner - Mudra Group,Karjat  
Pass out Year : B.E. 2018  
Branch: Civil



**Mr. Prashant Wasudeorao Chahare**  
Designation: Assistant Executive  
Engineer  
Company: CIDCO ,Mumbai  
Pass out Year : M.E 2023  
Branch: Civil



**Mr. Manoj Pundalik suryavanshi**  
Designation: Assistant Executive  
Engineer  
Company: CIDCO ,Mumbai  
Pass out Year : M.E 2023  
Branch: Civil



**Mr. Anwar Patel**  
Designation:Vice Principal at  
Singapore International School  
Company: Vijaybhoomi Singapore  
International School  
Pass out Year : 2018  
Branch: EXTC



**Mr. Roshan Tandel**  
Designation: Assistant Professor  
Company: YTIET Karjat  
Pass out Year : 2024  
Branch: Electrical



**Mr. Santosh Waghmare**  
Designation: Director  
Company: Shri Shivguru Electrical  
Engineer and Contractor  
Pass out Year : 2018  
Branch: Electrical



**Ms. Prathamesh Panday**  
Designation: Project Manager  
Company: Fyntune Solutions  
Pass out Year : 2023  
Branch: Computer



**Ms. Prathamesh Deshmukh**  
Designation: Associate Director  
Company: Customer Success  
Pass out Year : 2017  
Branch: Computer



**Mr Somesh Pimpare**  
Designation: Scientist 'C'  
Company:Aeronautical Development  
Agency - Ministry of Defence  
Pass out Year : 2020  
Branch: Mechanical



**EMINENT ALUMNI**



**Mr. Nishant Kundan Patil**  
Designation: Graphic Designer  
Company: Accenture  
Pass out Year : 2023  
Branch: Information Technology



**Ms. Supriya Balip**  
Designation: Systems Engineer  
Company: Bahwan CyberTek Pvt. Ltd  
Pass out Year : 2017  
Branch: Computer



**Mr. Chetan Pingale**  
Designation: Remote Support Engineer  
Company: Quess Corp pvt ltd  
Pass out Year : 2019  
Branch: Information Technology



**Mr. Suyash Patankar**  
Designation: Consultant  
Company: Goldratt Consulting  
Pass out Year : 2020  
Branch: Mechanical/AUTO



**Mr. Lavlesh Singh**  
Designation: Software Development Engineer  
Company: Jio platforms Limited  
Pass out Year : 2024  
Branch: Computer Engineering



GLIMPSE OF LAST ALUMNI MEET “ SANSKRUTI 2025”



Mechanical Engineering

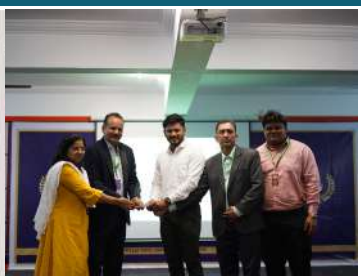




GLIMPSE OF LAST ALUMNI MEET



Information Technology



Electronics & Tele-Communication Engineering

Electrical Engineering





GLIMPSE OF LAST ALUMNI MEET





GLIMPSE OF LAST ALUMNI MEET





---

# ALUMNI ASTRAL

---

---

## FACULTY CO-ORDINATORS



**PROF. RAHUL KAPSE**  
INFORMATION TECHNOLOGY

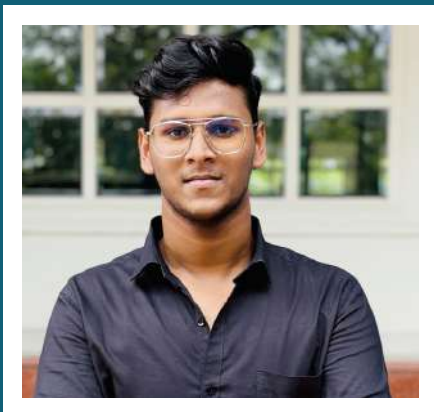


**PROF. SARITA LABDE**  
INFORMATION TECHNOLOGY



**PROF. MANISHA JAMGADE**  
CIVIL ENGINEERING

## STUDENT CO-ORDINATORS



**AAYUSH GUNJAL**  
COMPUTER ENGINEERING



**YASH KOYANDE**  
INFORMATION TECHNOLOGY



**NEEL CHAUDHARI**  
CIVIL ENGINEERING

---