

# SAMPADA

Your window to UVCE

Edition

161



## EDITORIAL

In the recent days, we hear a lot about students who want to join Computer Science or Electronics related branches more than the core branches like Mechanical & Civil Engineering for various reasons. This is reflective in the CET Rankings too. We thought why not talk to few of our alumni from Mechanical Branch and ask for their views and opinions. Though we have a vast history of Mechanical alumni, we limited our reach to recent batch alumni so that the current students can also get some insights along with the experience from them. In some future edition, we will also talk to our senior alumni from Mechanical background.

In a [Careers360 article](#) from October 2022, where the placement details of colleges across India was analyzed, it was seen that more than half of the colleges have a better placement percentage in the mechanical branch as compared to the overall average placement percentage of the colleges. However, it also stated that among the four core branches of engineering, Mechanical engineering showed the best placement but the lowest annual salary package in 2020-21 placement program. This can be one of the reasons why we see students not favoring to select the branch. If we consider the scenario at UVCE, there are many more reasons than just the placement. The infrastructure has been shambles since last 5-6 years. When we hear the senior alumni talking proudly about the Workshops, Machine shops and the practical knowledge gained during 60s - 70s - 80s, we cannot imagine it. We were also at disbelief when we were told students from other colleges visited Mechanical Labs to get hands-on experience. The current students have been missing out on this learning opportunity and this has to be rectified as a priority.



But, in spite of all the odds, we hear encouraging stories from the alumni of recent batches and that is precisely what we have tried to capture in this edition. We have people from Royal Enfield, Rolls Royce, Mercedes Benz, Volvo Group, Kennametal and many leading industries share their views, experiences, current industry trends & expectations and more. We also have the story of an Entrepreneur covered in detail along with interviews with couple of Professors from NITs. Each journey and the profile imbibes confidence and gives perspective to the current students who want to achieve spectacular things in the core mechanical domain. It gives idea about the opportunities in the outside world and what they need to work on to be on the top of the lot. This is the real goal of the edition - Mechanical Theme and we hope it will be useful to everyone interested to plan for the future in this path.

Inside this edition, apart from the Mechanical stories, we also have a special interview with the Placement Officer and Placement Co-Ordinators (of 2023 batch). Current happenings in the college and why was it colorful recently can be read inside this edition. We have a team from Tatva winning couple of competitions in other colleges too and you can know more about their mad skills in detail. Also, the Golden Jubilee Reunion of 1973 Batch was organized recently and we have give a glimpse about it this time. The idea is to have the next edition of Sampada as 1973 Golden Jubilee special. We will be covering the details of the alumni along with few more interesting details in the upcoming issue. Announcements about AGM on 18th June, 2023 and Silver Jubilee Reunion for 1998 batch on July 15th can be found inside this edition.


From Team Sampada, the effort has always been to connect the present with the past and the future. We believe the documentation of stories, experiences of the college and the alumni is the best way of publicizing our alma-mater. Write to us at [sampada@uvcega.org](mailto:sampada@uvcega.org) and we will be glad to know about your thoughts, criticisms and suggestions.

- Satish A G, 2009 Batch

## UVCEGA AGM 2023

UVCEGA is inviting you to join for the 3rd AGM on 18th June, Sunday at KEB Engineers Association (near Anand Rao Circle). You can find all the details - AGM Notice, SGM Notice, Annual Report, ByLaw Modifications and more in this link - <https://uvcega.org/content/info/rsvp-uvcega3agm>

The RSVP Form is also present in the same link. It will be helpful for us to arrange for the logistics, if you can fill it. We request you to join us for the AGM & SGM followed by the lunch along with your other friends. A simple way to build the community is by joining the events and sharing your views & experience. We welcome everyone - each UVCEGA Member - to support the organization. If you know some alumni who is not a member, you can ask them to join us on the day, register on the spot & attend the AGM.



### UVCE GRADUATES ASSOCIATION

100/4, Bull Temple Road, Bangalore-19 | [www.uvcega.org](http://www.uvcega.org)  
Regn No: DRB2/SOR/18/2019-20

## Notice for the General Meeting

The Third Annual General Body Meeting (AGM) of UVCE Graduates Association will be held on **Sunday, 18<sup>th</sup> June, 2023 at 11 AM**

**Venue:**  
KEB Engineers Association, Anand Rao Circle, Bengaluru-01

### **Agenda**

- Welcome
- Condolence for departed souls of alumni
- Reading of Meeting Notice
- Proceedings of Second AGM
- Report of the Working of the Association for the year 2022-23
- Audited Financial Report (SoA) for the year 2022-23
- Plan for the current year 2023-24
- Annual Budget for the year 2023-24
- Any other subject with the permission of the Chair
- Vote of Thanks

Dated: 18<sup>th</sup> May 2023 Secretary

**Note:**

- \* General Meeting is open for UVCEGA Members only.
- \* We will have the Membership Drive from 10:30 AM onwards at the same venue and new members can join the AGM immediately.
- \* If there is shortfall of Quorum, a 15-min break will be taken and the meeting will be resumed thereafter with the present attendees.
- \* Members can send their queries before 8th June (10 days in advance) via email to [info@uvcega.org](mailto:info@uvcega.org)
- \* If you want to change your email-id/contact, let us know



## MECHANICAL ENGINEER POV

Hello UVCEians,

My name is Vinay Nagaraj. I graduated from UVCE in 2014 with a degree in Mechanical Engineering. Despite the limited opportunities for core mechanical engineering roles, UVCE helped me secure a position at Royal Enfield, one of the country's leading motorcycle OEMs. I joined as a Graduate Engineer Trainee and eventually moved to product development.

After working with the engine strength and durability analysis team for 3 years, I moved to Germany to pursue a Master's degree in Computational Engineering at FAU - Erlangen Nuremberg. Since graduating in 2021, I have been working as a research associate on challenging projects at a research institute for composite materials.

Additive manufacturing, digital twin technology, lightweighting, industry 4.0, sustainability, renewable energy, and engineering are a few of the hot topics in mechanical engineering. With the rapid advancement in the field of computing, it is essential for mechanical engineers to adapt and learn the necessary skills to leverage computing and programming techniques. AI is also becoming increasingly important in the field, with numerous applications in mechanical industries.

Throughout my career, I have consistently pursued new challenges and acquired new skills to meet industry demands. Balancing passion with practicality and staying up-to-date with advancing technology is crucial. For those interested in pursuing a career in Mechanical Research and Development, a good starting point would be to develop intermediate programming skills and proficiency in CAD, CAM, and CAE.

In addition to technical skills, it is also important to develop soft skills such as communication and teamwork. These skills are essential for collaborating with colleagues and presenting your ideas effectively. This is my perspective on the mechanical world as a computational engineer. However, don't be afraid to explore different fields and find a job that combines both passion and purpose. Remember to balance technical expertise with soft skills and to stay up to date with industry trends. Best of luck and enjoy your student days!

Hope this helps, take care and keep up that good work !

**- Vinay Nagaraj, 2014 Mechanical**



## WHAT MECHIES SAY

I am Shivakumar. I'm currently working as Principal Simulation Engineer and Project Manager for Turkey based projects in L3 Communications India Private Limited (L3HARRIS subsidiary).

When we were in college, we used to say "Mech Rules", but in reality, "Technology rules the world". Any latest technology that's useful to people, industry always takes world forward. I recommend that you adapt to latest technology along with your core subjects. Learn your basics, e.g. Excel, from which reporting and data analysis starts. If you get chance, complete your higher studies as well - MS, MTech etc , as these are add-ons for your life.

Enjoy your life and make it beautiful.

**- Shivakumar, 2008 Mechanical**



# SOARING TO NEW HEIGHTS IN AEROSPACE

Dear Graduates,

I introduce myself as a proud alumnus of our esteemed engineering college – UVCE, and someone who has spent 15 years in the aerospace domain.

I am Suresh from 2008 batch of Mechanical Engineering. I hold Master's in Product Design and Manufacturing. I am a certified Product Manager, currently employed as Data Product Manager with Rolls-Royce Data Labs in Bangalore. Previously I was aircraft stability specialist with Airbus, where I contributed for all the Airbus programs for 11 years in Flight Physics, Innovation, Transformation and Product Management disciplines.

With 15 years in the aerospace industry, my journey has been nothing short of exhilarating. From designing cutting-edge aircrafts to pushing the boundaries of innovation, I've experienced the thrill of bringing dreams to life, by seeing and touching the products.

I reckon that many of you would be embarking into your professional journey in few months. I would like to share some insights to help you bridge the gap between university life and the corporate world. The transition can be both exciting and daunting, but with the right mindset, attitude and approach, you can thrive in your professional journey.



- **Build a Strong Foundation:** The knowledge and skills you have gained during your graduation form the foundation of your career. However, recognize that learning doesn't stop at graduation. It is just the beginning.
- **Practical Experience Matters:** While classroom learning is essential, gaining practical experience is equally crucial. Seek internships, projects during graduating. This experience will make you more marketable to employers.
- **Networking and Mentorship:** Networking is key to unlocking opportunities in the corporate world. Connect with alumni, industry professionals, and attend conferences. Seek out mentors who can guide you through the early stages of your career, offering valuable advice and insights.
- **Soft Skills Development:** Technical skills are important, but developing soft skills is more vital. Invest time in developing these skills to differentiate yourself from your peers.
- **Embrace Continuous Learning:** Stay curious, embrace new technologies, and dedicate one day in a weekend for continuous learning for the rest of life. Pursue certifications, attend workshops, and engage in professional development activities to enhance your skill set.
- **Choose the right industry:** You need to exercise prudence choosing the right industry as per your passion, aspirations and ambitions. The career depth and the rate of growth offered by different industries vary, in India. Traditional industries may not offer fast paced growth. And if you plan to be an entrepreneur, it is best to choose an industry with minimal entry barriers, like IT industry.
- **Protect what you got:** It is utmost important to protect your relationships with friends, faculty as you will only get busier. It is even more important to practice a hobby and protect it. This will help you strengthen your adversity quotient, which is highly important in your professional journey.

As you embark on your own professional adventure, may you soar to new heights, leaving an indelible mark on the industry. GOOD LUCK.

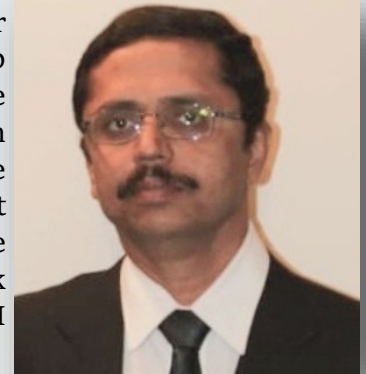
- Suresh, 2008 Mechanical

(We are glad to hear from the Mechanical alumni who have seen the industry and opportunities along with Higher Education impact. Thanks to everyone for sharing the views and suggestions for the current students)

## A HUMANE ENTREPRENEUR

Dhananjaya, son of Mariyappa and Gangamma, moved to Bangalore in 1982 from Bhadravathi, to study Degree in Mechanical Engineering in UVCE. Moving from a small city and home, to a big city and living in hostel was a learning experience to build confidence, independence and managing change. This experience had laid foundation for his 'dream of starting something on my own' and entrepreneurial experience.

Mariyappa, Dhananjaya's father had moved from a village near Shravanabelagola to Bhadravathi to look for work and had found a job at Visvesvaraya Iron and Steel Plant (VISL). Kids from his native village living and studying in their family home was a common occurrence and some of them successfully joined and worked for the state Government. This family philanthropy is extended at Dhananjaya's factories in Harohalli and Bangalore, where staff are served food prepared in the factory canteen and not charged. I look forward to Mudde Saaru ( Raagi Balls and Gravy) meals whenever I visit their factory.



Manjappa, Dhananjaya's elder brother, became the father figure after untimely death of their father and started working at the Steel Plant. Dhananjaya has a strong bonding with his brother's family in Bhadravathi and celebrates 'Ooru habba'( Village Festival) at his factory premises with a grand lunch for which my family have also been a witness.

Dhananjaya graduated from UVCE in 1987, started working for Amphenol after a brief stint at a private factory as he didn't had the resources to start on his own. Working for this company as though it was his own had its rewards which encouraged and resulted in starting on his own. It was a risk but people that he knew and had worked with believed in him and supported him. He did not compete with his previous firm as he developed new products and offered solution to his clients. Quality, on time delivery and customer relationship helped a great deal and repeat orders kept coming as well as word of mouth spread and new clients started approaching with enquiries. His first client in 2000 is still his customer. He received his first export order in 2002 and that client is still ordering from him. This shows the reliability of VMX Hi Connectors that Dhananjaya started in 2000.

Initial product development and manufacturing with outsourced suppliers had its own challenges and to improve quality and delivery time, in house CNC machines were installed in 2002 and moved to a own KSSIDC shed in 2004 with plating facility as well. He managed to secure the loan for the shed from Canara Bank in record time and KSSIDC manager allotted the shed efficiently. Dhananjaya's experience shows here that it is not always who you know which works but people support entrepreneurs with dedication and track record. . Where there is a will there is a way.

As the company grew, space was a constraint hence he bought an half acre of land in Harohalli Industrial area and moved to that location in 2014 after constructing the shed. An opportunity arose in 2017 to start the design and development operation in Cochin to support Indian Navy defence Establishment and around 25 people work there now. Over 100 people are working in 3 locations at the moment.

VMX Hi Connectors is an ISO 90001-2015 Certified Designer & Manufacturer of Hi-precision connectors and accessories. Starting as a connectors piece-part manufacturer VMX Hi Connectors as evolved into one of the leading connectors suppliers for the interconnect industry. VMX has gained a reputation of being renowned for its ability to produce piece parts & for developing fully assembled connectors for new challenging specifications with the latest manufacturing processes to yield supreme quality under the tight time schedule. A fully integrated plant with machining, die-casting, electro-plating, insulator molding, testing, and assembly facilities backed by a highly qualified workforce enables us to compete with the best in the industry.



Biggest challenge he faced was during the Covid, even though the factory had to follow the lockdown and reduced hours Covid guidelines, he never removed any employee from their position and everyone was paid their salary on time. It took its toll and he had to bring in his personal resources to manage the situation. Post Covid the company has emerged stronger and resilient. Employees are our strength is Dhananjaya's belief. He is a fan of Kuvempu and Tejasvi's works and listens to inspirational stories whenever he finds time. 'Malegalalli Madhumagalu' by Kuvempu is one of his favourite book.

Dhananjaya has been lucky with his succession plan as his Son Bharath Nag, an Engineer who was working in the US for a mechanical design company, has returned back to scale up the company.

Few of us - the classmates along with Dhananjaya meet often, have overnight stays during reunions and travel regularly. He doesn't miss meeting and travelling with his classmates whilst in the US. His message to UVCE students is to have dedication and work as though it is your own company even if you are working for someone else. Your classmates are your friends for life.

- Sridhara Aghalaya, 1987 MECH

## UVCE IN NEWS

### Higher Education Minister M C Sudhakar assures funds to UVCE

Higher Education Minister Dr M C Sudhakar has assured the University Visvesvaraiiah College of Engineering (UVCE), the first autonomous state-run university, of providing funds in the upcoming budget.

In a meeting with the College and Bangalore University staff on Tuesday, the minister said he will discuss the funds' proposal, submitted by UVCE, with the chief minister. The UVCE authorities have sought Rs 250 crore for the upgradation of the College on the lines of the Indian Institutes of Technology.

Responding to the fee hike proposal by the authorities, the minister asked them to submit the proposal to the government.

Sudhakar even assured the staff that there will not be any issues with the retirement benefits. Most of the staff opted out of UVCE and requested to work with Bangalore University. But as there is no provision in the (UVCE) Act to opt out, the minister and officials tried to make them understand it.

- Deccan Herald, June 6th ([Click Here](#))

*We are glad to read this news and wish it turns into reality soon. We hope this will motivate the faculty to work more efficiently and take UVCE to newer heights. As always, the alumni community is ready to join hands and support the initiatives once there is transparency and accountability fixed on the college authorities. We also request a clear roadmap for the next 2-3 years which can help to understand the needs of the college and move in the direction of a better future.*



2 Episodes of UVCE Chronicles are out this time !! The first one is the Chairman of UVCE BoG, PadmaBhushan B Muthuraman & the other one is our own alumni from 71 batch, Entrepreneur Govind Lakshman. You can listen to these audio podcasts here

**OPEN IN SPOTIFY**

# MECHANICAL ENGINEER POV

**Team Samapda: It would be great if you can give a brief profile of yourself to our readers**

**Chaitra:** Hello, my name is Chaithra Muralidhara, and I am a proud alumna of UVCE from the Mechanical Engineering batch of 2009. The solid foundation provided by UVCE has empowered me to excel in my career and take on challenging roles in the field of mechanical engineering.

I am a structural analyst with 10+ years of experience in Vehicle Structure Static and Dynamic Stress Analysis, Fatigue Life and Damage calculations, Structural Optimization and Correlation in developing Structural requirements. My work experiences are with Geometric limited (2 years), Mercedes Benz (9 years) and Daimler trucks (2 years)



**TS: Can you please take us through your career journey so far? Maybe share some challenging experiences you had to face as a female mechanical engineer.**

**Chaitra:** For me the important aspects for a successful career journey are integrity, technical experience and good attitude. Good networking helps to grow up the ladder.

Back in 2010 when I started my career with CAE, we were 2 women in a team of 20! It was tough initially, being a female in the field of mechanical engineering had unique challenges due to the historically male-dominated nature of the industry. Stereotypes and biases made me work harder to prove myself in a male-dominated environment. In recent days more women in the mechanical field have helped pave the way for greater gender equality in organizations.

**TS: How is the market trend for core engineering branches like Mechanical? Some insights from your experience would be nice.**

**Chaitra:** Mechanical engineering has traditionally been and will be a prominent and stable field, and it is likely to continue playing a vital role in various industries. Keeping up with the skills of automation, robotics, additive manufacturing, and renewable energy systems and acquiring relevant skills can enhance job prospects within the industry.

Having a multidisciplinary skill set can be advantageous in today's interconnected world, where cross-functional collaboration is becoming increasingly important. With the growing emphasis on sustainability and environmental conservation, there is a rising demand for mechanical engineers who can design energy-efficient systems, renewable energy technologies, and sustainable manufacturing processes. Knowledge of green technologies and sustainable practices can be an asset in the job market.

**TS: Some thoughts to current students on what they need to focus on to get ready for the real world of mechanical engineering.**

**Chaitra:** Mechanical engineering is a highly technical field, so it's crucial to build a solid foundation in core subjects like mathematics, physics, and computer science. Pay close attention to your coursework and make sure you grasp the fundamental concepts. This will provide you with a strong basis to tackle real-world engineering challenges.

While academic knowledge is essential, practical experience is equally valuable. Look for opportunities to engage in internships, co-op programs, or research projects to apply your learning to real-world scenarios. Practical experience will not only enhance your understanding of engineering principles but also provide valuable insights into industry practices and expectations.

Mechanical engineers are problem solvers at their core. Foster your problem-solving skills by tackling challenging assignments, engaging in design projects, or participating in engineering competitions. The ability to analyze complex problems, devise innovative solutions, and evaluate their feasibility will be invaluable in your professional career.

Stay abreast of the latest trends, emerging technologies, and industry developments. Read technical journals, attend seminars, and participate in professional organizations to expand your knowledge and network with experts in the field.



Effective communication is crucial for conveying ideas, collaborating with team members, and presenting your work. Work on your written and verbal communication skills, as well as your ability to create clear and concise technical reports.

Strong communication skills will set you apart in the real world and enable you to effectively convey your ideas and solutions to colleagues and clients.

The transition from being a student to a professional engineer can be challenging, but by focusing on these aspects, you'll be well-prepared to embark on a successful career in the real world of mechanical engineering.

## WHAT MECHIES SAY

I'm incredibly delighted to announce myself as an Assistant Professor in the Mechanical Engineering Department at NIT Silchar in Assam. I come from a humble farming family in a rural area of the Bidar district. Like many others, I experienced many ups and downs in my life before arriving at this location. I was fortunate to choose UVCE, one of the best venues for learning. I stayed motivated through interactions with the department's professors and help from fellow students and seniors in both the college and the hostel. Later, I obtained my MTech and PhD from the top university in the nation, IISc Bangalore.

For my undergraduate, I chose Mechanical engineering, one of the strongest foundations of the engineering. This field focuses on understanding thermal, hydrodynamic, structural, vibrational, and material science. Successful careers are the result of an in-depth knowledge coupled with real-world application in any one or more of the above fields. Additionally, making a fundamental and ongoing effort to improve your mathematical knowledge and coding abilities will help you succeed in the fields of software, data analysis, AI, and machine learning. Every day, there are fewer and fewer differences between engineering fields, so it is crucial to continue working on coding and mathematics. In conclusion, the foundational knowledge of engineering will last for generations; however, this may not be the case for newly developed engineering branches.



The technical prerequisites for any engineering discipline are the aforementioned points. However, developing soft skills (such as English grammar, body language, and thoughts organization) is crucial for a successful career. By making it a practice to read both fiction and nonfiction books, one may maintain motivation at all times.

Let me conclude this with the following Vachana, it's all your hard work, only your work matters.

ಕಾಯಕದಲ್ಲಿ ನಿರತನಾದಡೆ  
ಗುರು ದರ್ಶನವಾದಡು ಮರೆಯಬೇಕು,  
ಲಿಂಗ ಪೂಜೆಯಾದಡು ಮರೆಯಬೇಕು,  
ಜಂಗಮ ಮುಂದಿದ್ದಡು ಹಂಗು ಹರಿಯಬೇಕು  
ಕಾಯಕವೇ ಕೈಲಾಸವಾದ ಕಾರಣ  
ಅಮಲೇಶ್ವರಲಿಂಗವಾಯಿತಾದಡು ಕಾಯಕದೊಳಗು.

- Dr. Santosh Kumar. Phd (IISc), 2008 Mechanical Alumni



Silver Jubilee Reunion of 1998 Graduation Batch is planned on July 15th, 2023. We invite all the graduates from 1998 batch to join this event and celebrate this milestone with their friends. Register Today and also spread the word !!

**REGISTER NOW !!**

## MARVEL UPDATES

The newly inducted batch 3 students had completed the level 0 common tasks and began to work with domain specific level 1 tasks. The batch 2 students also have started working on the level 2 syllabus of their specific domains. The lab has been bustling with activities due to the batch students.

There was a 'How Stuff Works?' Session held by MARVEL wherein batch students were given an opportunity to explain a concept in lucid terms. There were explanations regarding working of a lighter, why the universe is expanding and fabrication of a semiconductor chip.

The first ever edition of 'Competition Digest' was held online. The session addressed competitions in the upcoming month which included Aventus Hackathon and CISCO ThingQbator.

MARVEL has started the Project Support Program to help 3rd Year B.Tech students pursuing core branches (EEE,ECE and Mechanical). MARVEL aims at giving project ideas and doubt solving support to the students

MARVEL had two industrial visits this month. The first is to AMS India- we spoke to Mr. Shashidhar, our own alumnus from 1987 batch about the different products and programs that could benefit MARVEL. Next, GTTC visit introduced us to different machines and courses that could be learnt at an affordable price.

MARVEL had its first product- The Lithophane produced in house from the drawing board and the coordinators and consultants played an instrumental in bringing this product to fruition. The Lithophanes were given as souvenirs for the 1973 Batch Reunion.



## UVCEIAN IN LIMELIGHT

Pratap Kumar J is an alumnus of MTech (Advanced Material Technology) from Mechanical Engineering Department of 2011-13 Batch. Currently, he is pursuing his PhD @ Christ University. He is multi-talented and has various records and also appeared in news channels. Few of the records held in Kalam's Book of Records:

- Handmade calendar with positive quotes and radium calendar with Dr.APJ.Abdul Kalam's portrait "on October 15, 2020
- Deadlifting 120kg holding for 1 min while drawing the INDIA map by Teeth" on 26th Jan 2021.
- Maximum Bricks casted in Fastest time by using manual brick making hand press compression machine" on Feb 18, 2021.

He also is very interested in various sports including Gym & Athletics. He has won many awards and prizes for Drawing and Painting activities. We are glad about these achievements and wish him the best for the future.



## FROM THE WORLD OF MECH ACADEMIA

**Team Sampada:** Please introduce yourself to our readers which will help them understand your profile better.

I am Dr Subhaschandra Kattimani, studied my schoolings in Sitimani village, Bagalkot District, Karnataka. Received B.E. (Mechanical Engineering) in the years 1997 and M.E. (Machine Design) in the year 2001 from UVCE Bangalore.



After serving five years as a Lecture in a Private Engineering College in Bengaluru, joined National Institute of Technology Karnataka (NITK) Surathkal on 31st May 2007 as a lecture. Availing a study leave, I have completed my Ph.D. Degree from IIT Kharagpur in the year 2015. Presently, I am working as Associate Professor in the Department of Mechanical Engineering and also serving as Associate Dean (Research & Consultancy) at NITK Surathkal. My main areas of interest are Computational Mechanics, Smart Composite Structures, Magneto-Electro-Elastic smart structures, Active Control of vibrations. I have published my research work in many top-rated international journals. Having 70+ Publications in international journals, supervised 8 PhDs, 12 MTech thesis and completed 4 sponsored projects from SERB, DST-AISTDF. I have visited US, Brazil, South Korea, Singapore, Malaysia, Vietnam and Thailand for Research Interaction and conferences.

*Featured in the top 2 % of scientists in a particular domain, a global list compiled by Stanford University, USA, based on the Scopus database updated citation in the year 2019, 2020, and 2021. Recently, for the outstanding contributions to the field of Engineering Sciences, I have been awarded Prof. Satish Dhawan State Award for Young Engineers for the year 2021.*

**TS:** As a person in the academic field, why should someone pick core engineering branches like Mechanical in the current scenario?

**Dr SK:** Mechanical engineering is one of the most versatile degrees of engineering. It is an engineering discipline that involves the application of principles of mechanics and materials science for the design, analysis, manufacturing, and maintenance of mechanical systems. The mechanical engineering industry exists in almost every sector, be it materials, manufacturing, software, or even medical. In most industries, it is the mechanical engineer who is responsible for the design and manufacturing of some of the most complex machines/components. Further, Mechanical engineering is a very interesting, fascinating, and dynamic field that can give many career opportunities.

Mechanical engineers are in high demand for their knowledge of advanced machines, manufacturing and their ability to make more efficient and safer machines. Nowadays, mechanical engineers are seen almost everywhere in the world since their experience in the field of mechanical engineering can be applied to virtually any industry. It is the most well-paying engineering discipline and has a wide range of career opportunities. Besides a well-paying job, Mechanical engineering is quite well-known for challenging engineering jobs. Thus, candidates would prefer to continue their academic career in this core engineering field.

**TS:** For students who are in the core branches - what should they do other than regular academics to improve themselves?

**Dr SK:** There are many skills that can be beneficial to them, and they should do in addition to regular academics. Some examples include Communication skills, Problem-solving skills, Leadership skills, Critical thinking skills, Technology skills, Foreign languages, Creativity, Teamwork, etc. These skills can be acquired out of the classroom.



**TS: What should one do to stay up to date when most of the syllabus learnt during the college looks seemingly outdated (as per the industry standards)?**

**Dr SK:** There are good numbers of opportunities available in the industries from small scale to large scale at national and international levels. Students should plan for industry-oriented internships, projects, start-ups, etc. This exposure will build the students' confidence levels to execute industry-based projects even though the syllabus learned during college is outdated.

**TS: We would like to know how being a UVCEian helped you in your career and professional life, so that the current students can feel encouraged.**

**Dr SK:** Admitted to Civil engineering at UVCE from a rural background without knowing what engineering is, what branches of engineering are, what type of jobs I would get after completing engineering, etc. After finishing 2nd semester, many of my classmates were trying for branch change from Civil Engg. to other branches like Mechanical, Electrical, Computer Science, etc. One of my hostile mates Mr. Manjunath who was in Mechanical Engineering got a Veterinary seat and left the institute. Before leaving, he gave me his Mechanical Engineering seat under a mutual exchange of branches. So, my career started in Mechanical Engineering, and I stayed back in the UVCE Boys Hostel, Behind Cauvery Bhavan, KR Circle.

The help, cooperation, and encouragement from my fellow UVCEians and the Professors from the Mechanical Department motivated me to put in effort, dedication, and hard work to mold my career as well as professional life in Mechanical Engineering. UVCE taught us how to overcome hurdles and achieve the goal that to staying in the heart of the city without being disturbed by neighbouring activities. Consequently, UVCEians can survive, perform and contribute to society anywhere in the world.



We are thrilled to hear that Dr Subhaschandra Kattimani was selected for the Prof. Satish Dhawan award 2021 (citation and 1 lac cash prize) by KSCST. He was facilitated by the Chief Minister in the presence of Bharath Ratna Prof. CNR Rao on 23rd March 2023 in IISc. We came to know about this when we approached him for the Mechanical Theme edition of Sampada. We are beyond proud to hear this achievement by our own alumnus. Heartiest congratulations and Best Wishes for the future!

## INTERVIEW WITH TPO - 2023 BATCH

**Team Sampada: What are the achievements of the Training & Placement Office in the last one year? Some stats and numbers along with the details would help our readers understand the efforts behind the screen**

**TPO:** Over 107 companies have recruited more than 72% of the students from the 2023 batch. Over 500 offers were given to 350+ students across B.Tech and M.Tech. More than half of the offers had packages above 5 LPA, and more than 40% of the packages had a CTC above 7.5 LPA. The highest package was offered by Palo Alto Networks, 1 lakh/month stipend for an internship.

**TS: We request the Placement Officer Dr Dilip Kumar to share some of his plans and vision for TPO in the coming years. This will help the alumni to join hands as and when possible**

**TPO:** We want to bridge the gap between the syllabus and industry requirements and enhance the quality of our students, and devise a comprehensive plan. This includes collaborating with industry experts for curriculum development and review, updating our syllabus to align with industry trends, and offering practical skills, case studies, and specialized electives. We also want to prioritize industrial training and internships, facilitating knowledge exchange between students and industry professionals. Industry expert mentorship has to be encouraged for career guidance, while workshops, seminars, and interactive sessions with leaders promote practical knowledge exchange. Lastly, collaboration with professional bodies ensures we stay updated with industry standards and provide networking opportunities for faculty and students. Through these measures, we want to provide our students with the skills and knowledge required to excel in their careers.

**TS: There are queries w.r.t to the recruitment for the core branches like Electrical, Mechanical & Civil from many of the students and alumni. Since in this edition, we are focusing on Mechanical branch, we felt it would be apt to ask some insights about it.**

**TPO:** This year TPO has achieved over 67% placements for Mechanical branch. Some of the notable companies which visited are Robert Bosch, Royal Enfield, Daimler Truck, Flowserve India and Toyota Industries Engine India. The highest package was 12 LPA offered by Daimler Truck. It is important to note that Mechanical students have also received offers for non-core roles from companies like Tekion and Quantiphi. Getting core roles, especially good ones, for Mechanical is more difficult than IT roles. But both the TPO and the students have continuously strived to achieve more core roles.

**TS: For the Student Placement Coordinators of 2023 batch, it is almost the end of the period where they have been associated with TPO as volunteers for almost an year. If you could summarize your experience and some of the challenges, it would be helpful for students aspiring to be part of TPO**

**TPO:** Being a student placement coordinator in UVCE can be one of the most intensive yet rewarding journeys. UVCE is unique in the aspect that students themselves are handling the end-to-end process of the placements. We encourage anyone who is passionate about contributing to their batch and the college to join the team.





Our experience as placement coordinators has been a fulfilling time. The work of a PC goes beyond inviting companies and handling drives. There are so many efforts and decision making behind the scenes which go unnoticed by students. Often, the work goes on from morning till evening, sometimes taking it back home from your laptop.

But at the end of the day, you are proud and satisfied that you have given a significant contribution to your batch and the college. We are grateful to the Placement Officer and the office staff who have given their valuable support throughout the journey.

**TS: It would be great if both the Placement Officer & the Co-ordinators let the alumni know on how they can help in the coming 6-8 months**

**TPO:** Alumnus helping to enhance placements and bridge the gap between the syllabus and industry requirements, could play a crucial part in our Placements. These include increasing system availability for offline aptitude and technical tests, engaging alumni as mentors to provide insights and guidance, organizing tailored workshops to develop practical skills and industry knowledge, fostering collaboration with industries for guest lectures and internship opportunities, and organizing career guidance sessions to support students in their career planning and preparation. By addressing these aspects, we can ensure that students are better equipped to meet industry expectations and increase their chances of securing better placements.



#### **Placement Co-Ordinators Team (Batch of 2023)**

- Architecture: Sagari S, Shivani S, Tejaswini S Reddy
- Civil Engineering: Chidananda B N, Kalyan Kumar P, Shri Krupa M, V Mohankumar
- Computer Science and Engineering: Chakrara Adithya, Nischitha Y R, Shreya Shetty
- Electronics and Communication Engineering: Abhiram Avadhanam, Neha H, S Ruchitha Yadav, Shankar Rao Patil
- Electrical and Electronics Engineering: Medhini J Kalyani, Viveksumanth R
- Information Science and Engineering: A Shriya
- Mechanical Engineering: Chidananda B S, Dimple Pereira, Syed Luqman

**We wholeheartedly appreciate the Placement Coordinators for all their work. One whole year of relentless efforts towards getting the whole batch into the professional world is not a small feat. We thank them for volunteer efforts & upskilling themselves and their batchmates.**

**Next Edition of Sampada is 73 Batch Special. We will be covering the profiles of the alumni, group photos of the various branches, articles from memory down the lane, interviews and more..**

**We intend to make it a memorable souvenir and request everyone to join hands for the next edition. If you are from 73 batch or know anyone from the batch, please let us know - [sampada@uvcega.org](mailto:sampada@uvcega.org)**





## MECHANICAL ENGINEER POV

Rajendra is a Lead Engineer at Volvo Group & here are his thoughts for our readers

It is important for us to understand the potential of acquiring the skill set of mechanical engineering to create sustainable engineering solutions. In today's world, we represent a wide range of industries, including automotive, aerospace, energy, manufacturing, robotics, and more. We are trained to analyse complex problems, develop creative solutions, and design efficient systems by applying scientific principles, mathematical modelling, and computer-aided design to tackle engineering challenges, improve existing technologies, and create new ones. Our problem-solving skills and innovative mindset are crucial for driving advancements and pushing the boundaries of what is possible.



Now, it is a challenging time for companies to stay focused on a single technology. Changing technologies present both challenges and opportunities. For engineers, it's an exciting time to work and be involved in the biggest technological shift of this generation. A multitude of opportunities and new job avenues are poised to emerge in the coming years.

Our company, Volvo, is investing in multiple technologies to stay relevant with the times. These technologies include internal combustion engines (I.C.), electromobility, Fuel Cell Electric Vehicles (FCEV), H2ICE, autonomous driving solutions, connectivity, and advanced safety features, to name a few.

"The carbon footprint we leave today shapes the environmental legacy for tomorrow's generations." Keeping this in mind, Volvo has set a target to become carbon neutral by the year 2040. We not only consider the products we sell but also focus on how they are made. Our supplier partners are also encouraged to use clean energy sources in the manufacturing of our components. We design and develop everything with sustainability and circularity in mind.

Mechanical engineers now have an opportunity to embark on India's journey of growth. In the upcoming decades, India presents numerous prospects in the manufacturing sector. The government's "Make in India" initiative, along with factors such as a substantial consumer market, advancing infrastructure, and a proficient workforce, positions India as a compelling hub for manufacturing. World is looking at India to invest. We should be ready with the required skillset to take part in this journey.

### **Industry expectation from new engineers:**

As an engineer we expects to have stability ,future growth potential and better composition, same way companies also expects us to be equipped with skills set such as,

**Technical knowledge:** Strong foundation in engineering principles and relevant technical knowledge. Good understanding of mechanical engineering, automotive systems, vehicle dynamics, thermodynamics, materials science, and computer-aided design (CAD). Companies often seek candidates who can apply their technical skills to solve real-world engineering challenges.

**Adaptability and willingness to learn:** Industry is dynamic and constantly evolving. Companies expect young graduates to be adaptable and open to learning new technologies, processes, and industry trends. Demonstrating a proactive attitude towards learning and staying updated with advancements in the field is highly valued.

**Problem-solving skills:** who can approach problems analytically and develop innovative solutions. The ability to think critically, identify root causes, and apply problem-solving methodologies is essential. Demonstrating a track record of successfully tackling complex engineering problems or participating in relevant projects can make a candidate stand out.

**Teamwork and collaboration:** In every industry often involves cross-functional teamwork and collaboration. Young graduates should possess good interpersonal skills, be effective team players, and be capable of working in multidisciplinary teams. Companies look for candidates who can communicate effectively, contribute to group discussions, and collaborate with colleagues from diverse backgrounds.

**Practical experience and internships:** While not always a strict requirement, having practical experience through internships or co-op programs is highly beneficial. Practical experience demonstrates that a candidate has hands-on knowledge of engineering practices, understands industry expectations, and can apply their academic learning in a real-world setting. Internships also provide an opportunity to develop industry connections and gain exposure to specific areas of the automobile industry.

**Strong work ethic and professionalism:** Companies to exhibit professionalism, reliability, and a strong work ethic. This includes being punctual, meeting deadlines, demonstrating integrity, and being committed to producing high-quality work. Attention to detail, organizational skills, and the ability to manage multiple tasks are also valued traits.

**Safety and environmental consciousness:** High emphasis on safety and environmental sustainability. One should understand safety protocols and regulations within the industry. Knowledge of environmentally friendly practices and an awareness of the impact of engineering on the environment is also appreciated.

Research and familiarize yourself with the requirements and expectations of the company or position you are interested in to best align your skills and qualifications.

*"I am passionate engineer with a commitment to lifelong learning, I have continually refined my skills in creating automotive systems that prioritize performance, safety, circularity, and sustainability "*

**- Rajendra Shetty, 2012 Mechanical Alumnus**

## WHAT MECHIES SAY



I'm currently am the Director of Digital Data and Enterprise Analytics for Kennametal Inc., a \$2B global manufacturing company headquartered in Pittsburgh, Pennsylvania.

I started with Kennametal India as a Trainee Engineer in Manufacturing after my campus placement. My initial focus was to understand machining processes better, so I could learn to be a better Design Engineer in the future. However, interactions with global teams and being open to change gave me an opportunity to come to the US in 2012 to lead a critical project for Kennametal as a Project Leader to create a new app called NOVO.

Pursuing an MBA in parallel allowed me to develop my business acumen. This, combined with the attention to detail and critical thinking skills developed at UVCE helped me develop a passion for finding meaningful insights from data and eventually led to my current role.

For anyone pursuing a degree in Mechanical Engineering now, I feel that the future could not be brighter! There are many global firms with Engineering offices in India and many more looking to build products in India. If you decide to switch to work in an area unrelated to Mech, that is OK. But try and find what you are passionate about as early as possible and strive to get there.

No matter what you do, please work to develop strong written and oral communication skills. In addition, if you know how to visualize and present data effectively and tailor your message to your audience, you will do well in your careers. Good luck!

**- Pradeep Hemmanur, 2008 Mechanical Alumnus**

## MAD ADS, MAD SKILLS FT. TATVA

In the beginning, MAD ADS meant the TUKALI team to me. I had no idea what MAD ADS was until I saw TUKALI's performance in our college. It inspired me to create a team just as strong as theirs. I approached seniors and asked if it was possible. Many said I could make it happen, but emphasized the importance of a good script. I shared my idea with our group, despite some challenges from a few who doubted I could make it happen in a short time. However, I believed that "trying was better than not showing up at all".

I took the challenge seriously and began working on the script, with the help of Swastik Vaidya, a senior in the third year. After numerous revisions and days of hard work, the script was finally ready. Next, I focused on assembling the best team for the task. I was determined not to compromise on the team selection, so I decided to conduct auditions. Despite concerns that many would abandon me as I was forming a new team. Eventually, the auditions concluded, and the new team was prepared to perform MAD ADS.

Sanjay Srinivas, our senior who wrote and directed the original TUKALI team, had already set high standards in other colleges. When it came to naming our team, we went through various options that weren't quite satisfying. Eventually, Sanjay permitted us to keep the team name as 'TUKALI,' which made us very happy. However, it also posed a significant challenge, as our seniors had already set a great benchmark, and we had to maintain it.

The OAT (open air theater) has become our adda for the practice sessions. Whenever we got the time we go for the practice. The new team quickly became like a family. We didn't waste any time opening up to each other. We even went out together in the rain just to enjoy some delicious chats. During practice, Shamnath Acharya, the narrator, contributed ideas that were really helpful in completing the script. The practice days are memorable.

On the day 27/03/2023 of the BMSCE fest, Utsav-2023, We practiced well for our first performance, and despite being afraid, it turned out great. The audience's reaction filled us with joy, and we were thrilled to secure first place in our very first performance when there were other teams whose performance were good. It was an incredible victory, especially for me, as this journey began as an individual effort but ended up as a proud achievement for our team, TUKALI.

Back again, we were all set to perform at CMRIT - Cultura, and it was an exciting moment but it felt like a mission impossible for us that day because two of us had exams ending at 12, and another team member had an exam starting at 3. Our event was scheduled from 12:30 pm to 2 pm. Initially, we contemplated dropping out, but then we thought, why not give it a try? We decided to make the impossible mission possible.

Finally on the day of CMRIT fest - Cultura which held to happen on 9th june 2023, we finished our exams and miraculously made it to the competition on time. Moreover, our team member was able to attend their afternoon exam as well. It's true what they say, "When you truly desire something, you will surely find a way to achieve it."



I had the chance to watch everyone's performances, and it was a tough competition. Every team seemed to outdo the other, and our team was scheduled fourth. As we waited for our turn, I felt nervous. Finally, it was our team's time to shine on stage, and we did well. However, right after our performance, I left to take a walk alone because I was worried about losing.



When I returned near the stage, I heard some voices mentioning "tukali," but I wasn't sure what it meant. By that time, the results had already been announced, and seeing my team's happy faces gave me the answer. It was an incredible moment when they declared us as the winners. Words can't fully express how I felt. It was one of the biggest victories I've ever experienced. Being praised by professional judges in the Mad Ads competition was a significant achievement. They appreciated the authenticity of our script, which was amazing. So, we secured our second victory by winning first place once again in CMRIT - Cultura.

I take great pride in leading such a talented team. Each victory fills me with a sense of pride, not only for representing our college but also for the decision I made to be a part of it. Looking ahead, I am excited about leading this team in the future and pursuing more victories like this one.

- Vyshanvi Shetty S (3rd Sem, ISE)

#### Team Tukali:

- Vyshnavi Shetty, 2nd year ISE
- Shamanth Acharya, 2nd year ECE
- Skanda H S, 2nd year CSE
- Vishwajeet Rupnar, 2nd year ISE
- Vishnu Skanda T A , 2nd year EEE
- V Darshan, 2nd year Mechanical
- Naveen D A, 2nd year Mechanical
- Chyavan Rao, 1st year CSE
- Rohit Pawar, 1st year ECE



## ETHNIC DAY 23 - COLORFUL UVCE

A few more weeks...that's all we have. A journey that began four years ago, culminates in just a few more weeks. Yes, soon we'll be known as the "alumni" of an institution that has fostered some of the brightest minds in the country. Now, the onus is on us to make us worthy of this title by virtue of the work we do once we graduate.



As is tradition in UVCE, we planned to organize Milagro'23, our annual intercollegiate cultural fest. The plans were underway, volunteers were being shortlisted, organizers were having discussions about the events and then it happened. We were informed that Milagro would have to be put on hold due to the immediate requirement to conduct the first year final examinations. With no other feasible date in view for the next month or two, it was official. Our exit from college would be rather unceremonious.

The planning for an alternate way to celebrate began. While it was short notice, we were determined to make our grand exit. Sure, there were apprehensions on how we're going to get the funds? Will an event planned on such short notice be good? What about the participation? While the apprehensions were many, there was one thing that remained constant. The urge to conduct a memorable event. If I were to tell our readers that the center of this urge didn't come from a student but rather from a faculty, our readers may find it a little hard to believe. While we raised our apprehensions about many things I mentioned above, we found a constant support from Prof KP Guruswamy. He was determined to the point of being adamant that "WE WILL CONDUCT THIS EVENT COME WHAT MAY".

The 5th of June seemed to be an ideal day to conduct Ethnic day and what a coincidence! The Director designate of UVCE, Prof. D Manjunath was bound to visit the campus. The plans were in place. On the day before the event, we reached out to all the classes and encouraged them to participate actively in the ethnic day celebrations.

On the morning of 5th June, the campus dawned a beautiful look. Students and Faculty across years and branches turned up to college in colorful sarees, kurtas, dhotis, lehengas etc. The bust of Sir M Visvesvaraya was beautifully adorned with flowers. As students crowded the picturesque spots in campus to click photos with their friends and shoot shorts and reels for social media, the campus was abuzz. At 12:30, the Interim Director and the Interim Registrar garlanded the bust of Sir MV, symbolically inaugurating the event and proceeded to the Rock Garden jam packed with students, who waited in eager anticipation for the cultural events that were to follow. After an address by the Director and Registrar, final year students were called on stage to take what would probably be the last group photo they take as a class before they graduate.



Post lunch, there were a variety of cultural events organized. From dance and song performances to ramp walks to flaunt their ethnic day outfit, the students actively participated in the events. As the events drew to a close, the excitement grew even further for what was in store. On popular demand, a 'tamte' session was organized. As the beats of the local drums echoed through the campus, the feeling was electric. As students danced their hearts out, the Rock Garden turned into a sea of colour. As the day drew to a close and the exhausted students recounted what an exciting day it's been over snacks and chai from the local Nandini and the vending machine, one thing is for sure. We couldn't ask for a better event to celebrate our four years in college.

It is through the collective effort of all the students in the Adhamya team (the cultural club of UVCE) and its constituent clubs that the event was a success. As we embark on a new chapter in our lives, we seek the blessings of our readers to flourish as alumni of UVCE. We hope to be active members of the alumni community post our graduation and play a small part in giving back to an institution that has given us so much.





## 1973 BATCH CELEBRATES ITS GOLDEN JUBILEE

To meet your batchmates and professors after a long gap of fifty years must feel surreal. To see them again in person must bring back a flood of memories. Memories of youthful days spent at UVCE with the very same people who have shaped you to be the person you are.

Well, at least these are the thoughts that occurred in my mind when I saw the college's quadrangle filled with groups of alumni and professors from the 1973 batch. Gales of laughter and the classic "Oh it's so nice to meet you after so many years" flooded the quadrangle as they sipped cups of hot tea and coffee.

The planning for the 1973 batch golden jubilee reunion began well in advance. As early as March in fact. To this day, I don't know how the UVCE Graduates Association is able to find and connect alumni from the 60s and 70s batches, but I know that it involves a lot of patience and hard work. As a part of the team of volunteers for the event, I got a glimpse into what it takes to conduct a memorable event for a special occasion like the Golden Jubilee and I'd like to share my experience with the readers.

The challenging part of organizing such an event is to ensure that a million small things fall in place to ensure a seamless experience. Getting the permission to conduct the event at the college premises, contacting the alumni, collecting the details, ensuring the necessary logistics are in place, setting up the venue...phew. All the effort and time spent organizing the event seems worth it when you see the smiles on the faces of the alumni as they reunite with their classmates and professors.

The event began at 10:00 AM with registration and hot cups of chai, after which the main program began in the college's hundred-seater senate hall. After the guests were welcomed, the professors and dignitaries were felicitated with a token of appreciation. The Interim Director and all the HoDs were present. The 73 batch's faculty then shared their thoughts on the occasion and expressed great joy that their students remembered them and invited them for the function. Soon after, a representative from each branch took the guests on a walk down memory lane recounting their college days. The spouses of the alumni had also joined the event. Towards the end of the main events, the UVCE Graduates Association initiatives such as the UVCEGA Scholarships, Sampada, Chronicles, Mentorship Program etc. were introduced. Post the event, the 73 Batch posed for a group photo in front of the iconic Minchu. The batch then revisited the campus guided by the current students. They visited the labs, classrooms and also paid a visit to the MARVEL R&D lab setup by the UVCE Graduates Association. The group then moved to Century Club for a delicious lunch. Post Lunch, it was group photos galore!

With the event drawing to an end and the spouses of the alumni practicing dance for an upcoming performance, it was time to present the souvenirs. Each alumnus was presented with a water bottle that read "UVCE 1973 Batch Golden Jubilee", a UVCE magnet & the most special souvenir being a backlit Lithophane developed by the students of the MARVEL R&D lab in UVCE.

After a day of fun and frolic, the event came to an end. A day to remember and reminisce had just concluded. While the laughter waned, the memories created will stand the test of time and the institution will be ever grateful to the new members of its active alumni community.

**- Adrian P Isaac, 4th year ECE**



**TEAM: Anupama Hegde (8th sem), Adrian (8th sem), Varsha Bhat, Chitra S Reddy, Meghashree G, Satish A G & SriHarsha D V (VisionUVCE Team)**