VIDYAVARDHINI

Estd. 1971

॥ सा विद्या या विमुक्तये ॥

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

VISTA 2022

Atraaf

Giving life a new direction

Vision

To be a premier institution of technical education, always aiming and becoming a valuable resource for industry and society.

Mission

We at VCET aim

- To provide technologically inspiring environment for learning.
- To promote creativity, innovation and professional activities.
- To inculcate ethical and moral values.
- To cater personal, professional and societal needs through quality education.

विद्यावर्धिनी प्रेरणा गीत

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ज्ञानगंगा आली आमुच्या अंगणी
विद्येची ही ज्योत तेवते विद्यावर्धिनी ‖धृ‖

भाऊसाहेब वर्तक यांनी रोप हे लाविले
दीन-दलितांना-आदिवासींना, प्रवाहास जोडीले
सावित्रीच्या लेकी घडती, ज्ञानाच्या अंगणी
अभिमानाने डौलत संस्था विद्यावर्धिनी ‖१‖

सा विद्या या विमुक्तये हे ब्रीद झळकते तेजाने
नवे-नवे शिखर जिंकण्या, वाटचाल ही जोमाने
हिरव्या स्वपनांसाठी, करीते कष्टांची पेरणी
समानतेचे सूत्र जाणते विद्यावर्धिनी ‖२‖

कला, साहित्य-संस्कृतीचा फुलतो अम्कुर येथे
सा-रे-ग-म-प-ध-नी सात सुरांचा घुमतो एकसुर येथे
भव्य क्रीडांगण, ग्रंथसंपदा, अनुभवांच्या खाणी
गुरू-शिष्याचे नाते जाणते, विद्यावर्धिनी ‖३‖

सागराची गंभीरता . . . . . विद्यावर्धिनी
पर्वतांची खंबीरता . . . . . विद्यावर्धिनी
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राष्ट्रैक्याचा धागा विणते विद्यावर्धिनी ‖४‖

गीतकार - प्रा. डॉ. सखाराम डाखोरे
समन्वयक - प्रा. डॉ. प्रदिप गुळभिल
प्रा. डॉ. शत्रुघ्न फड

Atraaf

Giving life a new direction

What is the first thing that comes to your mind when you come across the word "Atraaf"?. Perhaps, what does it mean? Well, that is so, let me tell you that "Atraaf" is an Urdu word, which prominently means directions (that are limitless). In our lives, we all get choices to choose between various alternatives, between better and worse, right and wrong, mind and heart, emotions and imitations, and many more but do we really think before choosing? Do we ponder over the consequences? Do we mind the direction our choice will lead to? For some, it may be a big YES; for some, it may be a clear NO; for others, it may be a 50-50 situation. The past cannot be changed, the present is the moment we live in and the future is a dependent entity (of the present). We are not just restricted to giving our life a direction but a "right direction" that will bloom the flowers of the path we'll walk ahead on.

When we try something new or unfamiliar, it's always a risk. Our intuition leads to the innovations we bring in. It takes courage to go in a direction that is completely new but the fruit is worth putting effort in. Needless to say, the new direction can be a right one or a wrong one, or an intermediary, it can be either pleasant or unpleasant or a combination of both. But does this mean that we've to stop changing our paths? Do we have to limit ourselves from giving a new direction? No, absolutely not! This reminds me of a popular quote by Mr. John Kennedy, the youngest President of the United States. He once said, "Efforts and courage are not enough without purpose and direction."

I believe each one of us gets at least one chance to give our life a new direction, a direction with purpose and unambiguity. I wish all the readers a pleasant direction, which will lead you all to a garden where flowers blossom and spread their fragrance frequently, where the mind gets peace and the heart beats, even if there are tunnels in between ;)

Now, I would like to draw your attention to the creative writings and memories of the people at VCET. So, grab a cup of coffee, sit on your couch, and hold your heartbeats because you are going to witness the emotions, feelings, experiences, imaginations, observations, intuitions, accomplishments, perspectives, stories, and a lot more in the form of words and photographs!

Insha Mulla
VISTA Incharge

Late Padmashri H. G. Vartak Alias Bhausaheb Vartak

Founder President of Vidyavardhini
(1914 - 1998)

Late Smt. Tarabai Vartak

Former President of Vidyavardhini
(1926 - 2008))

Late Shri. Prataprai G. Khokhani

Former President of Vidyavardhini
(1933 - 2018)

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(President, Vidyavardhini)

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(Vice-President, Vidyavardhini)

SHRI. PANDURANG G. NAIK
(Vice-President, Vidyavardhini)

SHRI. P. D. KODOLIKAR
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SHRI. ARUN G. VARTAK
(Chairman, Vidyavardhini)

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(Secretary, Vidyavardhini)

SHRI. MADHUKAR N. MOHOL
(Secretary, Vidyavardhini)

SHRI. HASMUKH M. SHAH
(Treasurer, Vidyavardhini)

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(Industrialist)

SHRI. SUBHASH DANDEKAR
(Industrialist, Chairman of Emeritus of Kokuyo Camlin Limited)

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EDUCATIONALIST/INDUSTRIALIST
(Nominated by AICTE)

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(Staff Representative, Professor)

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(Industrialist)

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(Educationist)

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(Industrialist, Chairman of Pidilite Industries)

DIRECTOR OF TECHNICAL EDUCTION [M.S]

DIRECTOR, WRO AICTE

DR. HARISH V. VANKUDRE
(Principal)

DR. ARCHANA EKBOTE
(Staff Representative, Assistant Professor)

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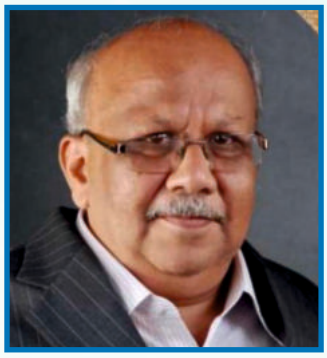

From the President's Desk

Dear Friends,

It is the time of the year when all the hidden literary talent of VCET comes in full blossom and a carefully selected bouquet is presented in our very own VISTA 2022. In this part of our engineering education where we are constantly surrounded by technology & jargon where literary talent is seemingly a faint voice, Vista provides a gateway to express one's literary talent. There is so much to read, learn and cherish. It is the literary amalga-mation of creativity and and thoughts bundled in one publication : VISTA.

Since its inception in 1994. Vidyavardhini's College of Engineering & Technology (VCET) has always strived to contribute to the cause of nation-building through using the most powerful tool, EDUCATION. We believe in quality education first! We thrive at mutual trust and hardships required to achieve excellence. We believe that learning shall be a joy and teaching a pleasure.

With this ideology, VCET has travelled so long and entered in 29th year. During this journey we achieved - Excellence, we gained - Trust. We believed in Education. We nurtured Young Talents. We prove - ourselves, we showed integrity & we cherish our motto "Overall Development of the Students". Beginning something new fearlessly, expecting the least, creating new success stories, and making memories are what we have learned throughout this journey. On this occasion, I am feeling proud and privileged to address you all.

Along with technical education, VCET also caters to students' needs in all possible directions naming a few cultural, literary, social, entrepreneurship, competitions, professional, internships, recruitment, and so on. I feel very honored that on every front VCET has shown its excellence and supremacy, VCET has proven itself to be one of the best institutes in the state and this is abundantly reflected in the success of its students in academics, (in securing admissions to top universities in India and abroad) as well as in securing placements in some of the best companies. Engineering education in a multifaceted environment is an experience by itself. Engineering is not just formal education but is an excellent generic intellectual qualification to develop students as engineers. VCET engineers have contributed greatly to technology in the past and we are convinced that our Engineers will be at the forefront of technological progress.

I am very proud to share that our college is one of the most eminent Higher Educational Institution and is renowned for the standards of its Faculties, Students, and Alumni. It is constantly pushing the frontiers of knowledge and ensures the futuristic approach that keeps pace with changing trends of the professional world. It is a matter of pride and privilege for me to see all of you doing well as Faculties and as Students. It gives me immense pride to share with you that this year our Department of Computer Engineering, Information Technology, Mechanical Engineering and Electronics and Telecommunications Engineering got accredited by NBA.

I hope you have as much joy flipping through the pages as students did compiling it.

Shri. Vikas N. Vartak
President, Vidyavardhini

From the Principal's Desk

I am elated at the publication of college magazine "Vista" for the academic year 2021-22.

We at Vidyavardhin's College of Engineering are focused on the transformation of our students into professional engineering graduates. It is process of challenging thought process, habits and also unlearning. It is about building progressive mindset. It helps in giving life a new direction or focus. Being professional also means being creative.

Vista provides a platform for our students and staff to showcase their creative output in terms of articles, stories, poems and other forms of literary outputs.

I sincerely hope that the magazine proves to be an enjoyable and useful apparatus in the hands of both students and teachers of the college.

I am also confident that it will serve as a source of inspiration for the teachers as well as the students to contribute articles regularly to the magazine in future.

I whole-heartedly congratulate VISTA team for their successful endeavour to bring out the magazine.

Dr. Harish Vankudre
Principal, VCET

From the Dean of Academics

I am deeply grateful for this opportunity to write my address for Vista'22, our in-house college magazine. Firstly, I would like to appreciate all the contributors, especially the editorial team of "Literati-The Literary Club" for preserving and carrying forward our college magazine in such an admirable form.

Overcoming the Covid-19 Pandemic was not an easy task, be it for the students or staff. Despite this, it is the sheer courage and strong will of our faculty members and students alike that made this transition to offline lectures such a breeze for us. Students were used to virtual learning and exams and they had completely adopted a different environment from the real world. But with great efforts and hard work of our faculty members and staff and the equally significant efforts from our students we have made this transition quickly and painlessly.. I'm also grateful to all the students for showing their remarkable efforts and talent in every field. The quality that sets us, Engineers, apart is that of unrelenting effort until a problem is solved. I am filled with hope and gratitude after witnessing the unfettering sheer will of our faculty members and student to strive for excellence even in the face of a pandemic and more importantly even after the pandemic to bring the institution and campus brimming back to life.

At VCET, we provide students with various tools and opportunities to transform themselves into working professionals with the right mix of integrity, ethics, and professional acumen. We provide opportunities for students to undertake internships, and apprenticeships in order to gain industry knowledge and hence making them experienced engineers ready to face the world. All these results in boosting up our students' confidence to work on any problem under any situation. We have with us the most experienced and educated faculties that help students learn their subjects practically to be ready industry ready.

I am also proud to mention that this year NBA (National Board of Accreditation) Expert Team visited our institute. They are responsible for assessing the qualitative competence of the programs that we offer. Their visit to our institute is a stepping stone for us. All four programs who went for getting accreditation status were successful in getting accreditation from NBA. Our faculty members and students can take various advantages from them like getting research grants, autonomy, etc. We have also increased the intake of computer engineering program in our institute. Another good news is that this year VCET is providing Honours/Minor Degree Programs for third-year students which are based on emerging technology that will help students to gain additional knowledge and skill apart from their degree course. Also we are starting VCET first PG program in structural engineering from AY 2022-23.

All the courses offered by VCET have a major focus on the all-around growth and development of every student. To ensure the progress of the student and keep a track of academics, attendance, and a complete profile of the student a proctor (Mentor) is assigned to each student. VCET also provides interdisciplinary institute-level electives to final-year students so that every student can enrol according to their interests. With trending technologies, different branches have been established in the past few years which include CSE (DS), AI & DS, etc. with many more programs that will surely help students to excel in their future endeavours.

I would like to appreciate the VCET "Training and Placement Cell" which has continuously given its best in working together with the hiring teams in the industry which has resulted in many students participating in the Campus Aptitude Training & Internships and Placements.

All-round development not only includes gaining industry skills but is a complete personality development necessary in becoming ready for facing the corporate world. For this purpose, students are provided with various co-curricular activities. Students are forming many student bodies together, organizing various events and participating in those. This develops a student's organization skills, leadership skills, creative skills, technical skills, etc. Our students are participating in many intercollegiate competitions and raising our institutes' reputation with their brilliance. I am very much sure that our institute will continue in providing the best engineers to the industries, country, and the world at large.

Dr. Vikas Gupta
Dean of Academics, VCET

From the Dean of Student Affairs

It gives me pride to sum up the various activities for Vista'22, the college magazine. First, I would like to greet all the contributors and the editorial board of "Literati - The Literary Club" for their efforts for publishing such a beautiful magazine.

VCET's aim has always been to transform theoretical knowledge into practice and build the confidence and personality of every student to meet industry requirements and social expectations. We at VCET have always believed that true education is always an experience and a process. Some of the most brainstorming and intellectual student learning experiences happen beyond a classroom.

Welcoming the fresh faces of the year, an orientation program was held for the first-year students by various student committees to apprise them about the various academic as well extracurricular activities the college hosts. The Student Council's most anticipated event - ZEAL was held on 25th,26th and 27th March 2022, with the theme Meraki. AVAHAN - the annual sports festival of our college, was conducted from 17th-20th March 2022. It was a good and refreshing breaks for all students from their daily hectic routine. The Literati Club's most awaited event LITFEST, wherein students are given the opportunity to demonstrate their innovative thoughts, through their writings. LITFEST'22 was conducted from 30th March to 7th April and was a grand success.

NSS is very important platform for social connect. Our students have showcased their skills by organizing successful events which had social impact. Tree plantation drives, cleanliness drives, blood donation camps, social surveys, organizing drawing competitions, vaccination drives, road safety awareness drives etc. This helped students to interact with various social stake holders like Police, Municipal corporation, and other institutions.

I sincerely hope you feel inspired to engage with those around you. E-Cell, IEEE, IETE, ISHRAE, ISA, CSI, etc will definitely guide you if you want to enhance your engagement with your fellow colleagues.

I wish all success in every aspect and look forward to the collective contributions for the overall betterment.

Dr. Amrita Ruperee
Dean Student Affairs, VCET

From the Staff In-Charge

From being a committee member to the committee in-charge, this journey has given me the privilege of being a part of the momentous progress that this committee has achieved over the years. The committee has flourished by leaps and bounds and now conducts a plethora of events for language enthusiasts. This year too, there were new additions to the list of events. After being in the pandemic for two long years, the zeal with which the students rebounded, was out of the ordinary.

The events conducted for the academic year were Marathi bhasha diwas celebration, Matrubhasha diwas celebration, Marathi and Hindi Kavi Sammelan, Extempore, Lit fest, and the flagship event Face-off. Literature festival began with extempore and comprised of events like Spelling bee, Love letter writing, Writing prompt, Dialogue Writing, Choose your anime, Look into the book, Literature Quiz. Every event witnessed a surge in participation as compared to all the previous years. The zest of the participants was mind boggling. Moreover, the switch from online to offline mode was challenging, but the dedication shown by the literati committee members were commendable.

The theme for this year's magazine is 'Atraaf - giving life a new direction'. The global pandemic did change us in many ways and it felt befitting to have such a topic which would prompt our staff and students alike to contemplate and pen down their thoughts as they transitioned from online to the offline mode. We received an overwhelming response with numerous articles and we are grateful to them for helping us in the successful compiliation of our annual Magazine "Vista' 22".

I am immensely grateful to our Management, Principal, Deans, HODs, Registrar, Committee In charges & Staff members for their incessant support, encouragement, and guidance. I am also thankful to the entire student fraternity who have contributed in various capacities from organizing to participating to writing articles for the Magazine.

A huge shout out to Ms. Samruddhi Gamre, the Literati Chairperson for the academic year 2021-2022 and her team for making it possible yet another time and bringing laurels to the committee. I certainly feel privileged and honoured to head this peppy bunch of committee members who always strive to elevate the stature of the committee.

Ms. Swati Varma
Staff In-Charge
Literati Ciub, VCET

From the Chairperson of Literati Club

Hello all, I am very delighted to address you as the Chairperson of “Literati - The Literary Club”. My journey with Literati has been one of the most rewarding experiences of my life. Here, I met the most fantastic seniors with the sharpest skills and the best teammates anyone could hope for. It was a wonderful journey from working as a team member to eventually leading a team and then passing on the responsibilities to the next.

Being in the 29th year of our college, we would like to dedicate “Atraaf” as the theme for VISTA 2022. “Atraaf” which means, a new direction, is an inspiration for all of us to set a new direction for our lives in the right path. Here we hope to give a new direction to ourselves as individuals as well as to the team to grow and achieve greater success.

This year was all about giving Literati a new direction as we emerged from online to offline mode. The environment had never been more enthusiastic, with all of us excited to start all the physical activity once again. This time owing to the transition to the offline mode and in order to build up the committee’s wide array of fun activities, we expanded our list of activities to include Spelling Bee & Love Letter Writing in our annual ‘Lit Fest’ i.e Literature Fest. We also had amazing participation for our events such as Look into the Book, Dialogue Writing, Literature Quiz, Writing Prompt, and the most amazing of all, Extempore. Extempore brought out a new side to our events as it was the first time in a long time that our participants had to face the actual physical crowd and show off their oratory skills at a moments notice. This event made participants think quickly on their feet. Faceoff 9.0 marked the ending of an amazing 2 weeks of Lit-Fest 2022. Faceoff witnessed a fierce battle of words between our students representing their respective departments. Along with this we had great events such as Hindi & Marathi Kavi-Sammelan. Kavi Sammelan sparked the inner poet in our students to express their feelings through their literary skills.

Being a part of this committee, I’ve never felt as if I'm leading a team but it made me feel that I'm with my family, my "Lit Fam". Over the course of 3 years, I have learnt so many new things from this committee, which helped me develop a number of soft skills that I am sure would aid me in my professional as well as personal growth. It is the only committee that enhances communication skills. It made me realize that teamwork is the key to success. I'm thankful to Literati for bringing out the best version of myself.

I would like to thank our honourable principal sir Dr. Harish Vankudre, our staff in-charge Ms. Swati Varma for their support and guidance. A special thanks to all my fellow BE members for their dedication and hardwork which lead the committee on the path of success. I am sure, looking back, the memories and lessons learnt in the committee will guide and bring happiness to all of us. I am thankful to each and every member of Literati for all the support that you all have provided through thick and thin and I appreciate your diligent efforts that made this year an unforgettable one.

Thank you again.

Ms. Samruddhi Gamare
Chairperson, Literati Club

From the Editorial Head

"Engineer is one who has structural and logical thinking".

I am delighted to be part of Vista 22. I have started my journey with the Literati Club as a Marathi Editor and later on as the Editorial head. The journey was phenomenal and magnificent as well.

This year our magazine theme was Atraaf - Giving Life a new direction. For each individual direction is important in their life, career. Without Direction and Plan nobody can climb towards success.

For me Literati is a platform which provides us the opportunity to develop leadership, Management, Organizing, Co-ordination and many more. This is the platform, where a bunch of students come together and organize various events related to literature, Language, Soft skills, Debates, Poetry, Writing etc.

This year we started with our flagship event Kavi Sammelan in both the Hindi and Marathi language in online mode. Followed by International Mother Language Day and another flagship event of Marathi Bhasha Divas in offline mode. Followed by Lit Fest'22, this year we have added Spelling Bee Competition in Lit Fest, Writing Prompt, Dialogue Writing, Literature Quiz, Look into the Book, Love Letter Writing, Unscripted-The Extempore Speech Competiton and ended with Faceoff which is intercollege debate competition.

Starting from debate topic selection to delegate the work to our team members and execution of the whole event with handling massive crowds was challenging for us but we have managed this with support of all team members. Here we get to know teamwork plays an important role to execute the plan. Team Work, Planning, Delegation, preciseness while working can bring change as an individual.

As human beings and society we are surrounded with these things and to nurture students Literati Organizes such events with Great Energy, Discipline, Power and enthusiasm.

At the end I Would like to thank our Principal Dr. Harish Vankudre, Staff In charge Swati Varma Ma'am, Chairperson Gamare, Bhavesh, Raj, Faiz, Vanashree, Bhakti and editors, Sub editors for support. And thanks to All FE's, SE's, TE's for supporting me in every situation and standing out.

Viren Barole
Editorial Head, VCET

English
Section

Editorial

"IN THE WAVES OF CHANGE, WE FIND OUR TRUE DIRECTION".

The past two years gave us an insane amount of time to look within, and to reconnect with ourselves and realize everything that is to be grateful for. For us, we realized the importance of connecting with people when we set out on our very first event post lockdown. It was at this said rendezvous that we received the plethora of ideas, excitement and talent. New perspectives had set in and for some of us it was a giant leap. Atraaf celebrates that change. Kudos to our theme this year, 'ATRAAF' which is all about giving our life a new direction. With the year unfolding and less and less things staying virtual, we wished to include more and more essence of literature in the events. The zeal and thrill in the club and outside the club blew the bar high!

I would like to convey my deep sense of gratitude to our respected principal Dr. Harish Vankudre sir, our staff incharge Ms. Swati Verma and all the faculty members for their guidance and support. I would also like to highlight the most serene leader of our literati club; our chairperson Ms. Samruddhi Gamre for leading our committee through these extremely difficult and changing times.

I am incredibly proud of what the literati magazine has created and curated on the pages that follow, giving the unsung artists a platform to express their varied new voices about important topics, a place to know the artists by their words about who they are and what they are capable of. I hope you take the time to read what the contents of the magazine has to offer. There is so much to read, so much to ponder and so much more to know because we are truly, after all, still learning.

I hope everyone of you take some time out to go through the entire magazine and to invest some time in self introspection, to pause, to think and ultimately to give yourself a new direction to move with vigorous energy and sheer will that will enable all of us to achieve our dreams.

Shreyas Manoti
English Editor

HEART AND MIND

Day to night, night to day,
Read it aloud, sing and play.
If you're not getting the path, find a way,
Embrace your happiness and say hurray!

Keep on participating, don't think of winning,
Don't limit yourself this is just the beginning.
To overcome failure, keep on trying,
Let your faith be the same even if you're dying!

Roar like a lion, cry like a child,
It's ok to act sick even if your fever is mild.
Follow your heart, try your mind,
Be the understanding one but don't be blind!

Life is a box of adventures, a bag full of opportunities,
Keep yourself happy and complete your duties.
Let your heart be the kindest, make new buddies,
It's better to be unique rather than supporting communities!

Insha Mulla
TE - IT.

BEST BROTHER

I spent 18 years of my life with you,
I know your likes and dislikes too.
I have already begun to miss you,
Cause my dear brother, I love you!

When you left, I had no word,
For me, you mean the world!
Your one call means a lot to me,
Your one message is something I long to see.

I know you too are missing me,
I know you would never ever agree.
But your actions always say it,
As always you get me some gifts.

Come home soon, my dear brother,
I miss you a lot and so does our mother.
Always she thinks about you,
Because she cares so much about you.

If you say, you are unwell,
To everyone, she would tell.
She wishes she would be with you,
Just to take care of you.

Our father would never express his feeling,
But he too is missing.
He too cares for you,
Because that's obvious: he loves you!

Niyukti Patil
FE - IT.

THE 1 PERCENT RULE

Once a man suffering from poor health visited a well known doctor known not only for his experience in medicines but also for his financial and psychological knowledge.

"Doctor, I have been suffering from poor health both mentally and physically. I have spent lots of money on the best fitness trainers and financial planners. Worked on their vigorous plans for months," the man said sighed "But all in vain."

The doctor listened to him patiently. "I have a cure for your problem," the doctor said "For each of your problems, you know the solution yourself but you are having trouble implementing those solutions. Therefore follow these three simple steps and report to me every week." The man beamed with hope.

"Firstly, identify the solution to your misery,' the doctor continued, "Secondly, allocate an amount of your time to that solution in your life that is negligible to you in your day-to-day life. And lastly, increase the time period of the solution by 1 percent every week."

The man, though not satisfied with the solution, went back to his home and put into action the doctor's words. In the initial weeks, the man often complained to the doctor that the negligible amount of time he was putting into action wasn't showing any solution. But the doctor insisted on following the plan with belief and determination.

After a few months, the patient revisits the doctor. "Doctor, I am amazed by the result of your treatment. In the beginning, I saw no improvement but after a few weeks I saw constant and continuous improvement in my health," he smiled. "The 1 percent increment ensured that the activities I performed were never a burden on me and gave me enough time to manage my time well".

"Often people are overwhelmed by the tasks that one has to perform, and under this stress, one can't perform a single task well and gets stuck in a cycle of self-blaming and a tough-to-manage schedule. One must always be kind to themselves, and follow slow but steady plans to achieve definite success." the doctor replied.

It's high time we all should stop blaming and come little easy on ourselves and not be overwhelmed by the future and instead follow a slow and steady plan to increment our good habits and decrement our bad habits, by 1 percent weekly

Mankrit Singh
TE - Comps.

INTERNALIZATION - THE ART OF LEARNING

"Learning is just a small part of growth, internalizing what we have learnt contributes more."

The word "internalization" is itself a deep concept. I am not sure if I can define it properly but it is about how we absorb a particular thing once we learn it. We learn different stuff in our daily life but do we really internalize it? We just learn it and it is stored somewhere in our minds. So, next time when we come across that situation, we won't be able to come up with it quickly. However, when we internalize something, we come up with heuristics whenever we come across something similar. Let me take an example for a better understanding.

Before a few days, I learnt how stagnant water gets dirty and the water that keeps on flowing is pure. Same way, when we are stuck on a particular thing, we might get into an infinite loop that won't allow us to grow. However, if we are constantly learning and reflecting on something, we can grow more efficiently. So, yesterday when I saw a waterfall this was the first thing that came to my mind and I shared this with my friends. From where did I get this heuristic? It happened because I internalized the concept of stagnant and flowing water.

I am not saying learning something is not essential, it is of course but the more we reflect and internalize, we can make the most out of it. We can use the same learning to solve different problems. My primary motive behind sharing any article or poem is always to reflect and internalize whatever I learnt. It's great if someone's finding it insightful but I write it for the sake of self-growth and not to influence someone. Writing down our reflections also helps to internalize. To cut the long story short, as long as we are able to internalize, we are good learners and we can get the most out of it. Learn, Reflect and Internalize.

Insha Mulla
TE - IT.

A HAPPY MASK

They call me attention seeker,
They call me sympathy gainer,
The emotions I spell in words are so forbidden…
For them it needs to be hidden.

They tell me to find a new facade,
To hide myself behind a happy mask,
To be someone filled with regrets,
Because being vulnerable is a threat.

They come from around,
Forcing me to hide my wounds,
Telling me I'll be naked and lunatic…
If I speak my emotions out loud.

Gurjinder Dhiman
TE - MECH.

TRUE SUCCESS

Every one of us struggles in our life in some way or the other. There is only one reason for us to give all our efforts and that is to achieve success in life. But do you know exactly what success is or how you can achieve it?

Success is not about winning a match or getting promoted in your job. It does not matter where you reach or how much you grow. Earning a lot of money does not mean living a successful life.

Success can be found in every small part of your life. Success is about setting a goal and achieving it. If you set a goal to wake up early in the morning and you do exactly this means you have succeeded. Achieving your daily goals at a time is in turn a success. Success is not one night's hard work, but it is a whole life's dedication to your work. It depends on how much effort you put in & how you value your time. Standing & facing all the challenges coming your way is a real success. It does not depend on the result whether you pass or fail. You are successful if you are giving your 100% to sort out the problem.

It is better to be a king of a small business than to be a servant of a big company. Always try to show your importance to the whole world. Never be insecure about your work, just make sure you feel better. You do not fail when everyone tells you that you are not successful, but you fail at the moment when you think that you are unsuccessful in your life. So just have confidence in yourself. You have to make your own place in this crowd irrespective of what others are doing. Many times, you have heard that hard work is donkey work, smart people do smart work. But guys, always remember that there is no substitute for hard work. There is no shortcut to success; You must go the same route as your previous successor. Your smart work is somewhat 20% of your success whereas hard work is 80%.

If you want to start a journey toward success then just start with a dream. Dreams do not have to be a nightmare, but they are something that comes true as a result of your hard work. Dream whatever you want and give up your sleep and comfort for it. Always be hungry to learn anything & everything about it. Many obstacles will block your path to demotivate you. At that time, you need to be positive and think of how you can give your best in the worst condition. Motivate yourself as well as others. Enjoy the struggle. It will teach you much that you have never learned in your schools. It will be an awesome journey of building the best version of yourself. Start making decisions like your responsibility for each small and great task. Do not get confused about whether this decision is good or bad but try to think about how you can make each correct decision. Focus on a single goal at a time & work on it. Do not get distracted by setting multiple goals at the same time.

The success of a person is not limited to that person, but it is the success of the whole family. Your parents, your grandparents, your siblings, your relatives, your friends, your teachers, your village, your district, your state, your country, everyone becomes successful with your success. So do not think about success just for yourself, just for your benefit, but think about everyone. If you want true success, then your dream should be that you want to give every happiness and success to your parents, it will make your journey easier. Do not beg God for your success, but rather ask God to carry out your parent's wishes. Because they both are praying only for your success.

Surround yourself with people who are themselves successful. Because when you are in a circle of four successful people then you are going to be the fifth successful one. Just avoid negativity as well as negative people in your life. They are themselves unsuccessful therefore, they can only discourage you and try to make you like them. This is not to say that you should ignore all those who fail. There will be some people in your life who will always support you on your way. Just try to find them and distinguish them from the rest as they are the ones who will be truly happy with your success. Do not grow by yourself but ensure the growth of all those who support you. This will bring so much happiness into your life and you will learn the meaning of real success. Real success is when your friends and family are happy with your accomplishment.

Khushi Sinha
FE - Comps.

SOUL

Do you sometimes feel it all blank? Where you don't even feel driven by your greatest motivations, all lost within your imagination? Do you feel it would have been better if you could just lie on the ground facing the rain laden clouds? Just be there doing nothing, feeling nothing, thinking nothing?

I often get lost in my world when I face the clouds. It drives me to wonder. If I am not thinking, doing, feeling anything then how am I still existing? Can I exist without thoughts? Without feelings? Without pain or pleasure? In my jumbled mind I ponder on what the wind is saying; what little refreshing drops of water is saying as they soothe my dry soul. Soul? Soul. Why my soul is finding comfort in these rain? And as the rain continues to shower with mild thunderstorms; I muse, "Wasn't I the one who was drained off in this world? So why the soul was nourished by the rains?"

I close my eyes and lay there, numb. Deep in search of who I am? Am I the wind? The clouds that rains?? The earth I lay on??? The body I live in?!

In the middle of everything a question arises, "What about the body I live in? Doesn't this thought imply that I'm not this body? Then who am I? (Everything outside just goes darker and darker with rumbling sounds going louder).

"What's happening to me?" a voice in my mind says. "Where am I lost? I have everything that I need here. Then why am I still lying here, in seek of what am I out in this dreamland?"

Thump. Thump. Thump.

I could now hear my heartbeats with stillness within. ME. I was questioning who was this 'ME'?

Hours passed and it was now raining heavily. Heartbeats faster, raining continued! Faster and faster my heart pumped in my chest. Raindrops hitting my skin like sharp needles. And now I'm felling something entirely else. PAIN! A moment ago, I felt numb and here I am back in pain?! The same rain that was once making me feel blissed and calm is now needling in my skin!

I laid there yet, in sheer determination to know my true identity. In hurt and pain, I was seeking my true self now.

"A lot of times, don't we go on to seek our true self after being detached from something?" a sudden thought rippled through me.

But where are we losing ourselves? To other people or things? But how can we loose ourselves unless we know our true selves? Who are we?

"Yes! Yes! Yes!" I muffled slowly.

I kept struggling with the rain, hustling winds and the pitch darkness. I hadn't spoken or opened my eyes for hours now. I was close to my answer. I wanted to unravel the mystery.

Who am I, What is it? A particle? A wave? An invisible force? An energy? Who am I?

I was paralysed! I couldn't move my hands and open my eyes anymore. A chill ran down my spine. I forced my body to make little movements, but to no avail. Breathing heavily, "if I was this body, then why wasn't I able to move it according to my will?" then I realized, **"I am not this physical body!"**

I calmed myself. Still cold silence around. But now I have my answer. I am not this body. But who am I then?

Midnight arrived and wolves started to howl. It has stopped raining now. Cool breeze flowed above my wet body and I felt scared now. I lost track of time. My brain ran in all directions. What if I die? What if an animal ate me? What if.. what if.. what if..!

I tried not to think wild, but again, I had no control over on these thoughts!!

Amidst this chaos, I told myself, I am not this MIND!

All of these are out of my will and I have no control on them. How can I call them mine?

Ain't I something that's **CONSTANT**?

That doesn't change?

That I can control?

Yes!! That's would be real me. But what is it?

Impatient. Scared. Numb. All chaos in my mind and locked body. That's how I felt now. Yet driven to find the answer, but driven by whom?

Whom? Whom? Whom?

Myself.

My Soul.

That's when in a blink of moment, I opened my eyes, a bustling shiver ran all in my body! "I am the soul", I uttered after hours. I woke up, danced in joy and hovered everywhere. The bliss of peace touched my very core, my soul. I finally solved the puzzle!

Manisha Kushwaha
TE - Mech.

NO ONE IS ALONE

A dialogue between a Child's mind, heart and the River.

Child's Mind : Hey River, are you alone like me? Do you feel as lonely as I do?

River : No, I don't feel lonely but why do you feel so my dear child?

Child's Mind : I just came from a family function. There was no one like me, no one with me so I left the function and came here.

River : How come nobody was around? Put your hand on your heart and ask if there truly was anyone who could have stayed with you.

Child's Heart : The river is telling you the truth! There is nothing wrong with asking me and feeling deeply about what I speak. Just hear me out for once, please!

Child's Mind : Oh! just stop it heart!! What is there to feel?! Look at this poor river flowing alone. Is there anybody with or close to it? NO! And you want the child to hope if anyone cares? In the middle of the crowd where no one even looks at him?!

River : May I ask who said I'm alone? Look at the river banks that accompany me. These lands, these rocks, these mosses, these fishes are all part of me. We cannot thrive without each other. We are ourselves an embodiment of water. So how am I even alone?

Child's Heart : This is perhaps the best example, and I'll explain it to you. Like how this nature and the life inside and around the river make up an entirely new ecosystem, Your family itself is a small ecosystem. You, your parents, your grandparents, and your siblings need one another. They are always with you, to support you and love you.

Child's Mind : So why do I sometimes think the child is lonely?

Child's Heart : Listen mind, sometimes you think that you are alone. Sometimes you think all the people in front of you are wrong and only you are right. Or it might look like everyone's together and you're the only one. But it's not always that way. Even if no one is with us, we are always with you. You must understand yourself in all situations.

River : Exactly, even if no one was with you, you were always with yourself. And if you ever meet someone who feels lonely, make sure you support them.

Child's Mind : Hm, I understand everything now.

River : Suffice it to think that I have given only a small example, but the heart has elaborated it so beautifully and succeeded to make you understand.

Child's Mind : So the bottom line is that somebody would still be with you and even if it's not true, you are with yourself. What you have to do is acknowledge and understand.

River : And lastly let's imagine for a while. Let's say these lands, these rocks, these mosses, these fishes are no longer a part of me but I'd still have beautiful visitors like you. Visitors who cry, smile, feel mesmerized and tell me their stories. Yes, those moments only last for a while but the memories made with me are always safe. Never forget that God is always with you in one form or another. He may be in the form of a river or trees or mountains. Perhaps in the form of your parents or some beautiful stranger. Just know that you are never truly alone.

Child's Mind : Thank you so much River for your wisdom. I wish I could stay a little longer but it's getting dark and my family would start to worry. After learning this beautiful lesson today, I would never feel alone. Because now I know I've got God, I have you, this nature, my family, and most importantly myself. It was really beautiful talking to you. I shall now take your leave.

River : Yes my dear child, I am glad I could make you realize. Now I won't keep you for long. Now you should head back to your family quickly. Be safe and always feel free to come back to me again.

Conclusion : No human would ever feel alone if people learn to be with themselves first and be kind to the ones in need.

Mansi Malap
BE - IT.

WHEN THE TIMES WERE SIMPLER

Oh, how I remember!
When the times were simpler.
When there was a time abundance,
For equal play and study, pure transcendence.
When the time to play was at hand for rejoice,
Not wasting on overdue work, was a mere choice.
When the studies were actually a pleasure,
Not just to clear the exams, a mere measure.

Oh, how I remember!
When the times were simpler.
When homework was our biggest enemy,
No assignment rushes, no viva stifler.
When friends used to ask about your day,
Not about the "due tomorrow" essay.
When our shoulders bore the heft of books and highlighters,
Not the burden of obtaining a good pointer.

Oh, how I remember!
About those times that were simpler.
The thoughts of those times,
Bring a gloomy tear to my eyes!
To return to those joyous times, we all wish-
Stuck in this hellish loop of turmoil and hardship.

Aryan Sawant
TE - Mech.

DO SHADOWS LEAD THE RAIN ?

Do shadows lead the rain ?
"What's your say about this , Coin ?"
"That's one tricky!!", remarked the Coin.

But before we start I give you two,
Choose one or let me loose!

"Be carefull !" exclaimed the Coin.

Whatever the outcome is your's to take.
Your Fate or Faith, for not me to decide.

For once I will be a truth,
For once I will be a lie.
Not me to decide.

I am a coin, dead all along.
Living a value given all along.

For those who believe the foretold lore's,
I am one of their metaphors.

Now I am here with a habit of flip.
Neither a captain for the ship aboard.
Sailors and drifters to an unknown shore.

"For here I flip, Come aboard!"

So now what was the question again ?"

"Do shadows lead the rain?"

Sharad Billava
TE - Comps.

MEN

Self-love, self-belief, self-esteem;
Be mean for your sake, love yourself.
Don't care about anyone anymore,
You're a lion you have to roar.

You have every right,
To live your life.
Never settle for being an average,
Always be a savage!

Take chances, be crazy-
Life can be difficult but so you can be.
Make your life easy,
Life is too short so don't be lazy.

Be so busy loving your life,
That you have no time to criticize.
Hard times are sometimes,
Blessing in disguise;
Let it go and let it make you better.

Be clever than your hater,
Make them fear & respect;
Do whatever but always do better,
Make every effort so you won't regret it later.

From the day you're born,
You're always under pressure to perform,
For they will scorn;
Until you earn.

You will be warned-
That you shouldn't cry or even be shy,
Because you are a boy & boys don't cry!!
Why?! But I ask why?!
No one ever asks me how am I…
I continue to smile and survive this life…
I'm just trying my best to stay alive!

Thinking about the future every night,
Boys, right? most of them have cried,
Burying their face in pillows all night;
Worrying about the future whether it is bright.

No one cares to hug them tight,
Or make them feel special just for a while.
They wipe their tears keeping faith in God,
With hopes that one day everything will be fine.

Shruti Jadhav
FE - CSE.

HAPPINESS

Did you ever feel that sense of happiness?
Have you ever dived into the ocean of genuineness?
Do you know how it feels when you experience eternal peace?
Have you ever witnessed that sense of immense bliss?
Let me share what happiness means to me...

When you wake up and find your mother close to you,
And you notice your prayers coming true,
When you are able to give hands to the ones falling down,
And you give a needy girl your favorite gown.

When you sleep all night peacefully,
And you have a shelter to stay in which is comfy,
When you learn something with excitement,
And you cherish every small achievement.

When you guide someone without being self-centered,
And you introduce someone without making them feel awkward,
When you apologize as soon as you realize your mistake,
And you feed your family with the delicious food being self-baked.

When people see you as a blessing to others,
And you try to improve yourself with those tiny feathers,
When you try to transform that darker side of yours brighter,
And you give fair chances to everyone without being a discriminator.

Insha Mulla
TE - IT.

THE GAME OF LIFE DECISIONS

Life can be heaven or hell,
Depends on your deeds indeed.
Life can be good or bad,
Depends on the way you sow your seeds.
Life can be successful or unsuccessful,
Depends on the dedication to your goals.
Life can be beautiful or ugly,
Depends on your personal perceptions.
Life can be great or average,
Depends on your performance.
Life can be everything or nothing,
Depends on your willpower.
Life can be whatever or anything you decide,
But depends on your "never giving up" skills.

Swapnil Kamble
TE - Civil

GOOD OLD DAYS

What happened to the good old days?
Back when our existence was worth living;
Back when our life was full of
joy and smiles,
Back when our world was a beautiful
place to live.

What happened to the good old days?
Back when we had faith in people;
Back when we trusted those we loved,
Back when we loved being with people

What happened to the good old days?
Back when we had no teary eyes;
Back when we had worry-free days,
Back when we had no hatred for others.

What happened to the good old days?
Back when we believed in everyone
and everything;
Back when we believed in
sharing is caring,
Back when we believed in
small happiness.

Yash Kharat
TE - EXTC.

The Honest Mirror

Mysterious soul like a burning coal,
Cheerful dining and secretly everyone's whining,
Limitless arrogance with a sweet fragrance,
Silent screams with beautiful dreams.

Delightful smile with the mind being fragile,
More confusion and fewer confessions,
Unplanned journey over the path which is getting ferny,
Tons of questions about unreliable destinations.

Sparing someone to discuss with everyone,
Wasting crucial time to save worthless fines,
Unaware of history and celebrating victory,
Admiring cheap vanity over precious humanity.

Broken promises for unvisited premises,
Being judgmental to oppress fundamental,
Untold stories with unforgettable memories,
Honest mirror with truths that are ulterior.

- Anonymous

मराठी
विभाग

संपादकीय

''हे हिंदवी स्वराज्य व्हावे ही तर श्रींची इच्छा'', हे ब्रीदवाक्य मनी घेऊन, हर हर महादेव च्या जयघोषात शिवछत्रपतींनी अलौकिक, अजेय, अभ्येद्द, अनमोल असे हिंदवी स्वराज्य स्थापित केले. त्यांच्या ह्या यशामागे अनेक मावळ्यांचे. वीरांचे बलिदान आहे. त्याच बरोबर सर्वात महत्त्वाचे होते ते जीजाऊ साहेब, संत तुकाराम, संत रामदास यांचा लाभलेला आशिर्वाद आणि योग्य मार्गदर्शन.

मनुष्याचं जीवन, मृत्यू, कार्य, क्रर्म, नशीब इत्यादी सर्व विधीलिखीत असतं. ते बदलणं कुणाच्याही हातात नसतं. हा पण एखाद्याला योग्य मार्गदर्शन करणे, योग्य सल्ला देणे, त्याला त्याच्या उद्देशापर्यंत पोहचवणे हे आपल्या हातात असतं. आयुष्यात दिशाभूल करणं सोपं असतं पण योग्य दिशा दाखवणं कठीणचं. कारण त्यासाठी मार्गदर्शकाकडे पुरेपूर ज्ञान, इच्छाशक्ती, आत्मविश्वास असणं हे अत्यंत आवश्यक. आज माझं जे काही अस्तित्व आहे ते सर्व माझ्या मार्गदर्शकांमुळेच.

आज लिटराटी समितीचं वार्षिक मासिक प्रकाशित होतं आहे. मला अत्यानंद होत आहे कारण मी ह्या प्रवासाचा एक भाग होऊ शकलो, ह्याचा मला सार्थ अभिमान आहे.

।। जय हिंद, जय महाराष्ट्र, जय शिवराय ।।

रोहन पाटील
TE-Instru.

आयुष्य

रागवावं काय आणि मनात ठेवावं काय ? इथे कोणीच नाही कायमचं,
मग ह्या रुसव्याचं करावं तरी काय ?

प्रश्न पडतो मजला विचारांच्या जाळ्यातच,
मग त्या जाळ्यांनाच बिलगते मी,
एका मागोमाग एकेक जाळं जणू काय वेटोळं घालतं मला,
काय करावं नी कुठे जावं ?
कसे निसटांवं हे सुचेना इथे.

ही वेळ, ही कशी लवकर निसटून जातेय.. मी थोडावेळ निपचित पडून राहिले,
डोळे पूर्ण बंद केले अंधाराचा अनुभव, भास होई पर्यंत !!

तरीही विचार येतच राहीले,
मग मी त्यांच्याबरोबर गुंतून राहण्यात पसंत केलं.
त्या अंधारात शरीर इथेच होते पण मन थाऱ्यावर नव्हते,
ते विचार आणि त्यांच्याबरोबर मी चालत होते, पुढे पुढे जात होते.

मग पायाला कसला तरी मऊ स्पर्श झाला नजर खाली गेली, ती मऊ वाळू होती ..
ती वाळू जेवढी शक्य होईल तेवढी मुठीत घेतली,
सहजच जुन्या विचारांची जागा नवीन विचारांनी घेण्यास सुरुवात केली,
जणू ते काही मला सांगत होते,
माझ्या हतबल झालेल्या मनाला त्यांचा आधार वाटला... मी ऐकत राहिले.....

तुझी अवस्था अगदी त्या मुठीतल्या वाळू
प्रमाणे झाली आहे कितीही मूठ आवळली तरीही कुठून तरी ती वाट काढतेच..
मग पुन्हा विचार येतो आपलं आयुष्यही असच त्या मुठीतल्या वाळू प्रमाणे आहे ना..ती मूठ म्हणजे आपण आणि आयुष्य म्हणजे ती वाळू...

हळूहळू ती वाळू पूर्णतः निसटून खाली पडते. ती मूठ खोलून पाहिल्यावर आजूबाजूला फक्त तिचं अस्तित्व सिद्ध करणारे लहान लहान कण असतात.. हा ती व्यक्ती होती त्या व्यक्तीचं आपल्या आयुष्यात एक अस्तित्व होत.ते लहान कण म्हणजे तेच जे त्यांच्या अस्तित्वाची जाणीव करून देतात, पण मूठ खोलताच क्षणी कळून चुकतो,

आता राहिली आहे ती फक्त आणि फक्त खुली मूठ.सहज तिच्यावरून नजर हटवली आणि समोर पाहिलं मोठा अथांग बेफान सागर होता त्याच्यासमोर ही छोटीशी मूठ मला क्षुल्लक वाटली.. किती मोठं आहे हे सर्व अगदी. एव्हढंस जग नाही आहे हे आणि नाही ते आयुष्य.. तो आहे जो समोरचा समुद्र आहे ना अथांग, प्रचंड मोठा बेफान, चहूबाजूने पसरलेला, अगदी क्षितिजापर्यंत टेकलेला....

तसं आहे हे आयुष्य .....

तसं आहे हे आयुष्य .....

Bhakti Raigawali
BE - EXTC.

हक्काचा एक दिवस...

मान्य आहे प्रेम व्यक्त करण्यासाठी फक्त एक दिवस नसावा. प्रत्येक दिवशी आणि दिवसाच्या प्रत्येक क्षणातून तो झहकावा.

मात्र रोजच्या धावपळीतून ते प्रेम व्यक्त करायचा वेळच मिळत नाही. घरचे मोठे पोट भरण्याच्या घाईत, पैसे कमविण्यासाठी घर ते काम यात तर, लहानगे शाळा, कॉलेज आणि परीक्षा यात व्यस्त. त्यामुळे रोज रोज आपुलकी , जिव्हाळा व्यक्त करता येत नाही. मग अशा वेळी नात्यात किंवा कुटुंबात आपुलकीच नाही असं म्हणणार का? प्रेम, माया, काळजी यांची उणीव आहे असं म्हणणार का? अर्थातच काळजी ही सततची घेतली जाणारी गोष्ट आहे.. कृतीतून दर्शवून देण्याची गोष्ट आहे आणि नात्याची खरी ओळख ही एकमेकांसाठी असलेल्या काळजी मधूनच दिसून येते हे ही तितकंच खरं.

<u>पण मला असं वाटतं की काही गोष्टी या बोलल्या गेल्याच पाहिजे.</u>

समोरची व्यक्ती ही आपल्यासाठी किती खास आहे हे निदान एक दिवस तरी आपण त्यांना सांगितले पाहिजे. जशी काळजी बोलून नाही तर केल्यावर जाणवते तसचं आपुलकीसाठी दोन गोड शब्द ही गरजेचेचं असतात. आपले सण, उत्सव म्हणजे नेमकं काय ? कुटुंब, नातेवाईक सर्वांनी एकत्र यायचा बहाणाच जणू.. मग तसचं वाढदिवस, मदर्स डे, व्हॅलेंटाईन्स डे हे सारे दिवस साजरा करणे हे ही तितकेचं गरजेचे नाही का? वर्षाच्या बारा महिन्यांच्या busy दिनचर्येमधून आपल्या आपल्यांसाठी त्या दिवशी थोडा वेळ काढून त्यांना थोडंसं special वाटू दिलं तर त्यांना ही बरं वाटेल. मनात असलेले अतोनात प्रेम आणि जिव्हाळा एक दिवस तरी व्यक्त केला तर त्यांना ही छान वाटेल नाही का ! माझ्या मते, हे दिवस celebrate झालेच पाहिजेत यात चुकीचं असं काहीच नाही. सर्व म्हणतात एक दिवस साजरा करून काय मिळणार, सर्वच दिवस आम्ही साजरा करतो. खरचं का? विचार करून बघा ! देता का तुम्ही वेळ आपल्या माणसांसाठी ? होता येत का रोज व्यक्त ? नाही ना ! मग रोजच्या काळजीला एक दिवसाच्या सेलिब्रेशन्स ची साथ मिळाली तर सोने पर सुहागाच ना !

आपण एकटे नाहीत, आपण कोणासाठी तरी खास आहोत या अशा काही भावना आहेत ज्या जगण्याला पंख देत असतात. मग रोज रोज इंजिनवर चालणाऱ्या गाडीला एक दिवस पंख लाभले तर जास्त उंच भरारी घ्यायला मोकळी. बरोबर ना !

Manasi Malap
BE - INFT.

मराठीची प्रश्नपत्रिका

आज उगाचच खूप वर्षांनी आठवली शाळा, शाळा तर कधीच संपलीय पण परीक्षेची धडधड मात्र तशीच राहिलीय! शब्दांचे अर्थ लिहा म्हटल्यावर अचूक अर्थ आठवायचे, पण आता अर्थही बदललेत आणि शब्दही अनोळखी झालेत. समानार्थी शब्द विरुद्धार्थी शब्द बनलेत आणि अर्थाचे अनर्थ झालेत. गाळलेल्या जागा भरा हा प्रश्न पैकीच्या पैकी गुण देणारा, प्रश्नपत्रिकातल्या सगळ्याच गाळलेल्या जागा भरल्यात आयुष्यातल्या काही जागा मात्र रिकाम्या राहिल्यात. पेपरातल्या जोड्या जुळवा क्षणात जुळायच्या, पण नात्याच्या जोड्या जुळल्या तर कधी जुळता जुळता फसल्या !

एका वाक्यातल्या उत्तरानं पाच मिनिटात पाच गुण मिळवून दिलेत, आयुष्यातले काही सोपे प्रश्न तिथेच तटस्थ उभे आहेत, एकाच जागी उत्तराची वाट बघत ! संदर्भासहित स्पष्टीकरण लिहिताच पाच पैकी साडेतीन गुण मिळायचेच, पण आता स्पष्टीकरण देता देता बरेचसे संदर्भ मागे पडलेत.

कवितेच्या ओळी पूर्ण करणं अगदी आवडीचा प्रश्न, आजही शोध सुरू आहे कवितेच्या सुंदर ओळींचा! एका चालीत एका सुरात गाताना मिळेल कधीतरी पूर्णत्व आयुष्याला ! निबंध लिहा किंवा गोष्ट लिहा पाचा पैकी तीन गुण देणारच देणार, आता कितीही कल्पना लढवा किंवा म्हणींवरून गोष्ट तयार करा, पण त्याचा विस्तार मात्र नियतीच ठरवणार.

तेव्हा अभ्यासक्रमावरून परीक्षा द्यायचो, काही प्रश्न optionला टाकायचो, आता परीक्षा आधीच द्यावी लागते, अभ्यासक्रम मात्र नंतर कळतो. आयुष्याचा अभ्यासक्रम अनोळखी असतो आणि कुठलाच प्रश्न ऐच्छिक नसतो.

शाळेत सोडवलेली मराठीची प्रश्नपत्रिका आज उगाचच खूप वर्षांनी आठवली आणि तेव्हाची परीक्षा आज खूप सोपी वाटली!

Ashok Vartak
IT Department

अभंग

मी देखीयले हरी चरण, हरी चरण
मन मंदीरी माझ्या विलतसे तोचि, तोचि विश्वंभर ।।

कंठी कौस्तुभमणी गळा तुळशीहार
भाळी चंदनाचा टिळा मज भासे केसर ।।

तुची माझे मायबाप, तुची माझा सखासंग
तुजविण मज ना कोणी देवा पांडुरंग ।।

पाठीशी उभी राहि, तु जगन्माता
आई रखुमाबाई तु धाव घेई आतां ।।

हेंचि माझे कर्म, हेंचि माझे कर्म
बाप रखुमादेविवरे विठ्ठले अर्पिण ।।

– ओंकार दिनकर जाधव
SE - IT.

आठवण येती तुझीया राया ....

मज आठवण येती तुझीया राया
जेव्हा पाहतसी त्या दरीखोऱ्यांना
बहु कष्टांनी तु उभारलेस् ते गड किल्ले
पण दशा त्यांची आज बघवत नाही राया

केलेस बहुत पराक्रम, लावून प्राणांची बाजी
तेव्हा संगती होते ते तान्हाजी येसाजी
पन्हाळा तोरणा तो तु प्रताप उभारीलास
स्वराज्याचा पाया तेथेच रचिलास

अली आदिलशही तो अफझल फाडिलास्
बोट छाटून तो मुगल कापिलास्
दुःख दारिद्र्य तु दुर पळविलस्
कली युगातील रामराज्य तु उभारलेस्

मग सजला तो डोंगर रायरीचा
सिंहासनाधीश, तु छत्रपती झालास
सहस्त्र हातांनी तु गनिमास रोखलस
धाक भगव्याचा तु दुनियेस दाखविलास

पण काळ आता बराच बदलला
तुझे पराक्रम आता ट्रेंड बनल्या
तुझ्याच नावाचा करुनिया वापर
डाव राजकारणाचा साधतसी सारा

पडला विसर तुझ्या शौर्याचा
तो भगवा पण आता एक रंग झाला
गड पडले ते बुरुज ढासळले, मात्र
२० फुटांचे तुझे ते पुतळे सजले

रुढी परंपरा तु धर्म वाचवला
मात्र त्याचा खेळ मांडला
स्वाभिमानाचं बीज तु अंगी रोवलस्
पण दौलतीच्या मोहापायी आता जगणं हरवलं

तेव्हाच आठवण येती तुझीया राया
जेव्हा पाहतसी ही सारी दुर्दशा
मनी मग एकचं प्रश्न उद्भवतो
जर नस्ते तुझे उपकार आम्हावरी तर काय
झालं असत आमचं राया ???.

– रोहन पाटील
TE - INSTRU.

बसलो होतो असाच एकदा तुझ्या राउळी

बसलो होतो असाच एकदा तुझ्या राउळी
तरीही शोधत होतो तुला चोहीकडे प्रत्येकवेळी

आत्ता दिसेल, मला भेटेल, मला कवटाळेल
ही आणि हीच सततची आशा होती मनी
परंतु या भाबड्या जीवाला कळत नव्हते
कसा येईल तो सावळा–सख्खा ह्या व्यवहारी जगी

इथे नाहीसा झाला आहे तो जिव्हाळा,
ती आपुलकी
कुठे उरला तो विश्वास, कुठे ती माणुसकी
प्रत्येक जण पाहतो आपले ताट अन् आपला
संसार कोणाला आहे घेणें–देणे, जरी नसेल
भाकर शेजाऱ्यास

जेव्हा कंटाळून जातो अशा व्यवहारी जगाला
तेव्हा शोधत राहतो आसरा तुझ्या पायरीला
पण तेथेही हे व्यवहारी जग शांतता देत नाही
देवाने झपाटलेला असे मज नेहमी हीनवत राही

आता नाही पडत मला फरक कोणाच्या मतांचा
नाही सहन होत तो कोंडमारा माझ्या भावनांचा
म्हटले जरी मज देवाने झपाटलेला
तरीही पांडुरंगा, मायबापा येईन मी पंढरीला

उगाच शोधत बसलो होतो तुला राऊळात
पण दिसलास मज तु माझ्याच अंतरात !!

– ओंकार दिनकर जाधव
SE - IT.

शिक्षक...

१२३ ते sin cos पर्यंत....
ABC ते NEWTON च्या Law पर्यंत...
तुम्ही मातीच्या ढिगाऱ्याला मौल्यवान पुतळ्यात घडवलं...
आयुष्यात गुरु किती महत्त्वाचा असतो हे त्या दिवशी समजलं....
तुम्ही रोवलेल्या शिक्षणाच्या बीजाचा आज वटवृक्ष झाला....
तुम्ही शिकवलेल्या प्रत्येक धड्याने जीवनाचं मोल सांगितलं....
तुमच्या मेहनतीच्या मशालीचे वणवे आज सर्वत्र पसरले..
गुरू बनणं सोप्प नसतं हे मला त्या दिवशी समजलं..
स्वतः झिजून आम्हाला मोठे केलं..
स्वतः रडून आम्हाला सतत हसवलं...
स्वतः खचूनही नेहमी आम्हाला प्रोत्साहित केलं.
आता कळलं गुरू बनणं एवढं सोपं नसतं...
गुरु बनणं एवढं सोपं नसतं...

रोहन पाटील
TE - INST.

आणखी काय हवंय..जगण्याला !

आईने घेतलेली निस्वार्थ काळजी
अन् बाबांनी दिलेली शिकवण
आणखी काय हवंय.. जगण्याला !

मोठ्या दादा अन् ताईचे वेळोवेळी मार्गदर्शन
लहान भावंडांसोबत न विसरण्याजोगे काही क्षण
आणखी काय हवंय..जगण्याला !

आजीची प्रेमळ मायेची ऊब
अन् आजोबांची पाठीवर असलेली थाप
आणखी काय हवंय.. जगण्याला !

काकांचे कौतुकाचे दोन शब्द
काकीने घातलेली विनाकारण गोड साद
आणखी काय हवंय..जगण्याला !

आत्या आणि मावशीकडून पुरविले गेलेले लाड
मामाच्या मायेत सातत्याने होत असलेली वाढ
आणखी काय हवंय.. जगण्याला !

हे सारे असेच एकत्र राहावेत
प्रेमाची अन विश्वासाची कधी कमी न व्हावी
एका धाग्यात पेरलेले हे धन वाढत राहावे
कुटुंबातील नात्यांची ओढ कधी न संपणारी असावी

हे इतकंच हवं आहे मला, आणखी काही नको मला
आणखी काही नको जगण्याला !!

मानसी मालप
BE - INFT.

आई जगदंबेच्या मुली

तिचं किंकाळणं कानी पडत होतं पण मदतीस कोणीच का आलं नाही ???
तेच सिने तारूयांना जरा जरी खरचटलं तेव्हा त्यांची ते कपट का कोणास जाणवलं नाही ???
आधीच समाजाचं बंधन, त्यात कुटुंबाच्या धाकात ती जगत होती...
तशी ती हसायची पण आतून मात्र सतत खचून मरत होती...
का आपण तिला सतत कमी लेखत असतो..
अरे... ती जगत जननी आहे, आपण तिला समजून घेतलं असतं तिलाचं बरं वाटलं असतं...
सांत्वनाचे भाषण ऐकवायला आणि मेणबत्त्या जाळायला तुरुतुरु पुढे चालत आलात...
अरे तेव्हाच जर शौर्या तिला वाचवलं असतात आज दोघे आनंदाने जगले असतात ...
कधी आई कधी ताई कधी मामी तर कधी काकी
प्रत्येक क्षणाला नवीन जन्म ती घेते...
जेव्हा कोणत्या पुरुषावर संकट येतं...
तेव्हा तीच तर धीर देते...
आपण मात्र तिचा छळ करतो तिच्या जगण्याची राखरांगोळी करतो...
तरी त्रास मात्र तिलाच होतो कारण काय तर तिचा बाईचा जन्म असतो...
''मुली जगवा मुली वाचवा'' हे विधान करून तिला सूट दिल्याचं भासवतो...
आणि लगेच ''बाईच्या जातीला हे शोभत नाही..'' म्हणून का तिच्यावर बंधनाचा डोंगर उभा करतो ???.
बस झाला हा अत्याचार खूप झाले हे बलात्कार..
थांबवा ही दरिद्री करनिया दुष्टांचा संहार...
तेव्हा सुखी होतील आई जगदंबेच्या मुली..
आणि नीट बसेल आपल्या समाजाची घडी...
तेव्हाच सुखी होईल आई जगदंबेच्या मुली...

रोहन पाटील
TE - INST.

हिंदी
विभाग

संपादकीय

''हिन्दी'' शब्द का मूल अर्थ है ''हिंदोस्तान से संबद्ध'', यानी इस भारत भूमि से आधारित कह सकते हैं हिन्दी किसी संगठन के लोगों की भाषा नहीं, बल्कि भारत के मिट्टी की भाषा है। यद्यपि यह कहना उचित होगा की हिन्दी सिर्फ एक भाषा नहीं, वह पहचान है भारतवासी होने की।

कुछ सौ वर्ष इतिहास में चले, तो... १८९९ में, अमेरिका के 'लास एंजेलिस' शहर में जब स्वामी विवेकानंद जी से एक अमरीकी द्वारा पूछा गया, ''हाउ आर यू स्वामी जी?'' (आप कैसे है स्वामी जी), स्वामी जी ने उत्तर दिया, ''मैं अच्छा हूं! ''अंग्रेज को लगा शायद स्वामी जी को अंग्रेजी नहीं आती तो अंग्रेज ने अपने टूटे-फूटे हिन्दी में अगला सवाल पूछा, ''आपको अमेरिका आके कैसा लगा?'' स्वामी जी कह पड़े , ''आई एम फीलिंग गुड, युओर कंट्री इज ब्यूटीफुल!'' (मझे अच्छा लग रहा है, आपका देश सुंदर है)

अंग्रेज ने पूछा ऐसा क्यों, कि जब मैंने अंग्रेजी में पूछा आपने हिन्दी में जवाब दिया और अब मैं हिन्दी बोल रहा हूं तो आप अंग्रेजी में बोल रहे हैं। स्वामी जी बोले, ''जब तुमने तुम्हारे राष्ट्रभाषा में पूछा, मैंने मेरी राष्ट्रभाषा में जवाब दिया। मगर जब आपने मेरी भाषा का सम्मान किया, मैंने आपकी भाषा का सम्मान किया। मेरी भाषा ने हमेशा सिखाया है सम्मान करना''।

''अतराफ'' यानी ''दिशाएं''। इस साल के विस्टा अंक की थीम है ''अतराफः जीवन को नई दिशा देना''।

हिन्दी दिखाती है दिशा, हमेशा सबका सम्मान करने की, आदर करने की।

भारतवर्ष के इस जमीन पर कई भाषाएं बोली जाती है। अपने प्रांत की, अपनी अलग भाषा। किंतु जब ''एक'' होने की बारी आए, भारत का प्रतिनिधित्व करने का समय आए, सभी प्रांतों की भाषा एक हो जाती है, ''हिन्दी''! हिन्दी दिखाती है दिशा एकता की, एक होने की।

इस जगत के किसी भी भाषा का कोई भी अक्षर हिन्दी, देवनागरी में लिखा जा सकता है। हिन्दी दिखाती है दिशा, सर्वगुण संपन्न होने की।

हिन्दी माँ की तरह है, जो विविध रूपों से अपने पुत्रों को नेकी की दिशा दिखा कर फर्ज अदा करती है।

चलिए इस हिन्दी को थोडा सा और बडा बनाने का प्रयास करते हैं। पढते हैं क्या लिखा है, हम सब ने हिन्दी विभाग के लिए।

चिन्मय राऊत
TE - EXTC.

कृपा करे!

''कृपा करे! माफी दीजिए। ऐसे बेजार ना करे। दया करे।'' साडी खरीदते वक्त कमलाबाई ने कुछ यूं सुना। आवाज की तरफ ध्यान दिया तो एक पति अपनी ''औरत'' को कष्ट दे रहा है। जो धर्म–पत्नी उसे देवता मानती हैं, उसे वो एक पत्नी नही, बल्कि उसके हक की ''औरत'' मानता है। उसे छोड़ रहा है बेघर, अकेले। फटी साडी से अपना अंग ढकते ढकते, साथ ही रोते रोते आगे निकली बेजार ''औरत''। सभी लोग मजे ले रहे थे उसकी हालात का। ऐसे प्रतित हुआ जैसे उस औरत के पति ने उसे बेहद मारा हो, और घर से बाहर निकाला हो। क्या हुआ होगा अनुमान नहीं लगा सकते। कमलाबाई ने आजू–बाजू के चार पुरुषो को देखा। लगभग सभी पुरुष शायद उस ''औरत'' के फटे साडी के भितर झांकने का प्रयास कर रहे हो। कमलाबाई ने, खरीदी नई साडी से उस औरत का तन ढक लिया।

कमलाबाई तवाईफ है। उसे इज्जत की किमत मालुम है।

निशाद,

कॉलेज लाइफ

सब यारो के यारा ने दिल को फिर याद आये
वह बीते पुराने लम्हे फिर याद आये..

वह पहला दिन, वह पहली सी बातें
आज वह दोस्त सब भिछडे तो लम्हे याद आये..

देखा था जिन्हें कभी अजनबी सा हमने
आज वही खास इतने की किसी को क्या बताये...

वो यारो की महफ़िल, वो किताबो के ढेर
वो रातो के रतजगे, वो क्लास रूम में सब ढेर...

देखा आज उस क्लास रूम की तरफ
तो वह दोस्त मुस्कुराते बडे याद आये...

अब यही कुछ दिन है, कुछ दिन की सोहबत
भिछडेंगे सब ऐसे की हर मुस्कान पर याद आये..

कोई इस शहर कोई उस शहर कोई इस गली,
कोई उस गली, निकलेंगे जब इस राह से, वो राहगीर याद आये..

दिल टूटा यह सोचकर कितनो को आखरी दफा देखेंगे
वह बात दिल पे चुभी, के जख्म आर – पार दिखाई आये.

हुए गले मिलकर जुदा, किया वादा अब रहेंगे हमेशा यहाँ
आँखे नम हुई, तो चुप करते नज़र आये..

यही तो जिन्दगी है जो आगे बडी अपने मुकाम से
शुरुवात है अभी न जाने आगे कितनो के जाने आये..

Raja Shah
FE - MECH.

देखे हैं मैंने सपने बडे

देखे हैं मैंने सपने बडे भले छोटा मेरा कद ही सही।
रोका गया, टोका गया, रुलाया गया, पर झुकना मैंने सिखा नही।
उम्मीद जीतने की है इसलिए हार का ख्याल कभी आया नहीं।
छुना है मुझे सूरज को आज, इसलिए डर जलने का रखा नहीं।

रोहन पाटील
TE - INST.

शायरी

डरपोक हैं वो लोग जो इंजिनियरिंग से डरते हैं,
बडा दिल चाहिए जवानी बर्बाद करने के लिए!

इंजिनियर होने का यह भी एक फायदा है,
परिवार और समाज में मिलती इज्जत ज्यादा है!

दिल में बेकरारी और ख्वाबों में हसीनाएं,
पहले समेस्टर में ही दो बैकलॉग आएं,
फिर अपनी मस्ती में मुस्कुराएं,
फिर वहीं असली इंजीनियर कहलाए,

अपने प्रोजेक्ट के बोझ तले दबा जा रहा हैं,
वो देखो एक मैकेनिकल इंजिनियर जा रहा हैं!

Raja Shah
FE - MECH.

जिंदगी का खेल

जिंदगी का खेल है न्यारा भैया।
रातों में है यादों का पहारा भैया।
कैसे कैसे जीते हैं लोग अकेले ही,
हमें तो उनकी आंखरी मुस्कान ने मारा भैया।
कितने ही दर्द छुपे हैं उन आखरी मुस्कानोमे भैया ।
कितनी ही उम्मीदें सोई हैं उन खुली आंखों में भैया ।
युही नहीं चांद अमावस से पूनम तक का सफर करता है ।
उसे भी तो अंधेरे में उजाला देना होता है भैया ।

रोहन – निशाद,

सही है क्या?

किसी का वर्तमान अच्छा होकर भी उसे उसके अतीत की याद दिलाना,
अपने माता पिता को यूं बात–बात पर चिल्लाना,
''तूं लडका है, तूं रो नहीं सकता'' यह बार बार दौराना,
अपने मित्र की गलतियों पर भी उसका साथ निभाना,
सही है क्या?

एक सुहागन का यूं विधवा हो जाना,
किसी पिता का अपने बेटे से बिछड़ जाना,
वो गर्भवती महिला का अपने बच्चे को खोना,
पंछियों का बंद कमरे में चुपचाप रोना,
सही है क्या?

इस देश में रहकर भी इसकी बुराई करना,
खुद का घर साफ रखकर यूं सडक पर कुडा फैलाना,
दुसरे शहर के रहवासी को यूं नीचा दिखाना,
किसी लडकी को अकेला पाकर उसका फायदा उठाना,
सही है क्या?

धर्म के नाम पर यूं आतंक मचाना,
किसी को चुप कराने के लिए जोर से चिल्लाना,
''तूं निचली जाति का है'' कह कर धुतकारना,
''तेरा रंग काला है'' कह कर भगाना,
सही है क्या?

सही को भूलकर गलत का साथ देना,
पैसे की लालच में अंधा हो जाना,
किसी मजदूर के पैसे यूं खा जाना,
कोई अनाथ की जमीन पर हक जताना,
सही है क्या?

किसी गरीब को सुनाकर यूं चुप करा देना,
कोई अजनबी को यूं रास्तें पर उलझाना,
उस मां को यह कहकर कि बेटी हुई है, खरी–खोटी सुनाना,
वहीं बेटी को ससुराल में दहेज के लिए सताना,
सही है क्या?

सब जानकर भी आंखें बंद करके देखते रहना,
सब कुछ सुनकर भी ''क्या तुमने कुछ कहा?'' कहना,
''उनकी समस्या है, वह देख लेंगे'' कह कर टाल देना,
किसी की मजबूरी का यूं फायदा उठाना,
अब आप ही बताओ मुझे, यह सही है क्या?

इंशा मुल्ला
TE - IT.

मेरी मौलिक रचना

झंडा हम फराएँगे
जिस मिट्टी में पले बडे हम
कसम उसी की खाएंगे
जब तक सांस है तन में मेरे
झंडा हम फहराएंगे
मातृभूमि की सेवा में
सब कुछ अर्पित कर जायेंगे
आँच नहीं आने देंगे हम
दाग न कभी लगाएंगे
जो आजादी हमें मिली है
मजबूत हम उसे बनाएंगे
आन–बान और शान में इसके
धब्बा नहीं लगाएंगे
आजादी के खातिर जिसने
अपने प्राण गवाएं हैं
इस झंडे के नीचे आकर
उसकी गाथा गायेंगे
भारत की आजादी में
जो बहुत यातना पाएँ हैं
आने वाली पीढी को
हम उनकी याद दिलाएंगे
जब तक सांस है तन में मेरे
झंडा हम फराएँगे
इस झंडे के शान में हम
सब कुछ अर्पित कर जाएंगे.

Samriddhi D. Dubey
TE - EXTC.

डरने से डर मत,

डरने से डर मत,
तू डर थोडा–सा...
तू बेज़ार सा है,
निखर थोडा–सा...

चलना प्रवाह के साथ
हर बार गलत नहीं...
तुम अलग हो, मैं अलग
लोगो में मुमासलत नहीं...

तुम्हारे लिए रुकेगा नहीं कोई,
हो सकता है साथ चलेंगे...
इतना चलेंगे, इतना चलेंगे,
साथ पुरी कायनात चलेंगे...

हो सके तो हर पल जी लेना...
जिन्दगी लंबी तो नहीं...
पी ले चौन जितना चाहे,
तिश्नगी लंबी तो नहीं...

मुमासलत – समानता
तिश्नगी – प्यास, लालसा

निशाद,

एक हिस्सा मेरे नाम का भी

वो दिन थे सुहाने, जब बचपन के आँगन में कभी किलकारियाँ गूंजती थी।
बेफिक्री में चलते जाते दोस्तों के साथ मौज मानते, हंसते गाते थे हम।
इन छोटी–छोटी आंखों ने देखे थे बडे सपने, सपने जो दिल के करीब थे।

फिर उम्र ढलते–ढलते, एहसास हुआ कि मेरे चेहरे की हर एक खुशी के लिए मेरे माँ–बाबा ने अपनी हजारों खुशियाँ कुर्बान की हैं।
दीवाली पर बाबा का वहीं फटा कुर्ता पहनना और माँ का बाजार से नयी साडी ना लेने का कारण भी मैं ही तो थी।

अब बारी मेरी थी, उनके हर एक त्याग का हिसाब चुकता करना था।
उनके कंधों का थोडा भार अब मुझे उठाना था।
घर का जिम्मेदार 'बेटा' बनना था मुझे, उन्हें वो हर खुशी देनी थी जो उन्होने कभी मुझपे लुटाई थी।
समय ने भी साथ दिया मेरा, मुझे काबिल बनना सिखाया।
अपने माँ–बाबा का सर गर्व से ऊंचा कर सकूं इतना जिम्मेदार बनाया।
ये वक्त भी बडी कमाल चीज है। जिस वक्त ने मुझे काबिल बनाया, उसीने मुझसे मेरा एक हिस्सा छीन भी लिया।

थोडा गौर करने पर पता चला कि मेरा एक हिस्सा कहीं पीछे ही छूट गया है।
वहीं हिस्सा जिसने कभी बडे–बडे ख्वाब देखे थे, जिसने बडे आसमानों को छूने के सपने संजोए थे।
हा माना, जिम्मेदारी बडी है कंधों पर, इस लिए परिवार की खुशी के लिये मेरा बट जाना ही लाजमी था।
लेकिन एक पल को अगर मैं ठहरू तो एक अजीब खालीपन महसूस होता है।

पर अब वो बात नहीं, क्योंकि अब बस बंट कर रह गई हूं।
जो चिंगारी पहले लड़कपन में हुआ करती थीं अब वो बुझ के राख बन चुकी।
परिवार का सहारा तो बन चुकी, साथ अब अपने सपनों की भी एक नयी उडान भरना चाहूं मैं।
परिवार के लिए बटोरी खुशियों में एक हिस्सा मेरे नाम का भी संजोना चाहूं मैं।

– श्रुति कुवेकर
TE - EXTC.

एक दोस्त गया इतनी दूर

एक दोस्त गया इतनी दूर,
की आया ही नहीं सालों में...
मैंने बुलाया, उसने सुना नहीं,
और मैं रह गया सवालों में...

आज आया वो,
बहुत रोया वो...
आजुर्दगी में रहा होगा,
जवानी में बदनुमा होगा...

उसका रंज वो ही जाने,
हम दोस्त नहीं अब, हम क्या जाने ?

उसको बात करनी थी हमसे,
हम भी तो रुके है कबसे...

सालो बाद आया है, तो प्यार आएगा ही,
और मेरा दिल भी तो पिघल जाएगा ही...

पर मैं अभी रूठा हूँ,
मुझे बात नही करनी...
उसको पुकारी जो बाते,
अभी याद नहीं करनी...

कही ये उसका नाटक तो नही ?
फर्जी, सोची... कोई चाल तो नही ?
वो सच्चा भी होगा, वो यार था मेरा,
या ये बस एक मेरा खयाल तो नही ?

आना ही था तो जल्दी आता...
इतने सालों बाद क्यों आना ?
वो कहा था, कैसा था... बताया नही,
था क्या उसका ठिकाना ?

बात तो करनी है मुझे,
मगर मैं भी तो रूठा हूँ...
उसकी याद के समंदर में,
यार मैं भी तो डूबा हूँ...

वो आया है मिलने मुझसे,
पर मैं अब जा रहा हूँ...
वापस आऊंगा ही नही,
कसम खा रहा हूँ...

''मैं हूँ यहाँ, ऐ दोस्त''
ये बताने मुझे मरना पडा...
साथ नही छोड़ ना था दोस्त का,
फिर भी मुझे ये करना पडा...

मैं रूठा नही हूँ दोस्त,
मगर अभी एक लाश हूँ...
मर गया हूँ, पर गम नही,
मेरे दोस्त के जो पास हूँ...

निशाद,

जिन्दगी का सफर हमसफर

जिन्दगी एक सफर है
जिसमें कल क्या हो
उससे सब बेखबर है

करती हमेशा हैरान है जो
एकदम से वक्त बदल देती है मिंटो में वो
सिर्फ हारके जीतने वाले को बाजीगर मान के चलना कोनसी समझदारी है
क्यूंकि अगर इरादा ही मजबूत ना हो तो वही आपकी सबसे बडी बेवकूफी है

आप मानो या न मानो
सबके जिन्दगी में एक जिन्न है
जो ख्वाइशें करता हमारी पूरी है
वह और कोई नहीं पर माँ की ममता और पिता का आशीर्वाद है
सबकी जिन्दगी में यह प्यार का सहारा होना जरूरी है
क्यूंकि उसके बिना यह कहानी अधूरी है

आखरी मंजिल आने में अब भी देरी है
तब तलक सफर को जीना भी जरूरी है
और सफर से सीखना उससे भी ज्यादा जरूरी है
अब यही खतम कर रहा यह शायरी मैं
पर एक बात याद रखना की यह अन्त नहीं है
क्यूंकि मेरे दोस्त पिक्चर तो अब भी बाकी है

स्वप्निल सुनील कांबले
TE - CIVIL

REPORT SECTION

From the Students' Council Incharge

Students' Council, one of the biggest committees of the college is delighted to bring to you all the experiences it had this year. It strives to strengthen student-teacher relations through all of its activities. The year began with showing gratitude towards Teachers. 5th September marks the Birth Anniversary of our former President and renowned Teacher Dr. Sarwapalli Radhakrishnan. On this occasion Students' Council hosted Teacher's Day celebration- keeping up with the annual tradition of VCET, teachers were welcomed with a rose and a card along with countless wishes. The celebration was scheduled in the evening where Teachers joined wearing colourful dress code given by the Students' Council. The celebration began with teachers enjoying the games organized. A short video was also made which consisted of various alumni's thanking the teaching and non-teaching staff. These students thanked the teachers for their guidance and support throughout their academic years and beyond. Each teaching and non- teaching staff was sent a personalized email with a card attached.

Welcoming the fresh faces of the year, an orientation program was organized for the first-year students. The freshers were informed about the various academic as well as cultural activities that the college and the Students' Council hosts. The committee and teams they can join to enhance their skills and interests as well as explaining the rules and regulations of the college that they must abide by. The freshers were informed about the various events that the Students' Council hosts and the biggest annual cultural fest, Zeal. The events and competitions of Zeal as well as its grandeur was conveyed.

The Students' Council then began preparing for the most anticipated cultural fest, that is ZEAL 2022. When it comes to cultural uplifting, Zeal is certainly one of the highlights of our college. This year, Zeal was held on the 25th, 26th , and 27th of March with the theme : MERAKI-The Art of Imperfections. On the first day of ZEAL, we had our Grand Inauguration Ceremony, which was accompanied with marvelous lezim performance and dhol tasha Pathak. Dr. Pallavi Parulekar Bansode(Founder President) Shabdavel Sahitya Pratishtan was our chief guest for the inauguration ceremony. Students' Council organized 30+ events in the span of 3 days.

Zeal MERAKI-The Art of Imperfections was the perfect blend of creativity, enthusiasm and euphoria that brought alive the magnificent campus of VCET. Everyone danced to the beats of nagada for a fun filled garba night. Chief guest for the GARBA NIGHT was Suhrad Soni, the Co-founder and Co-owner of world's biggest authentic Garba School SSGD. The DJ captured the senses of a large crowd of VCET by presenting the most trending DJ songs and made everyone's feet dancing and jumping on the floor. From brainstorming ideas to organizing various events was an experience that every Students' Council member will never forget. All in all, the Students' Council takes immense pride and gratitude for achieving everything that was planned for this year with great success and joy.

To give a proper sendoff to all the last year students a BE Farewell was organized filled with joy, tears and happiness. Various games and performances were also conducted. Everyone danced on the beats of DJ and said goodbye to their engineering life with happiness and tears.

Thank you!

Dr. Sunayana Jadhav
Students' Council In-charge

From the General Secretary

Hey Guys!! I hope you all are doing great. I feel extremely honoured to have served as the General Secretary for the previous academic year. Penning down this addressal gives me a bittersweet feeling, on one hand, I feel extremely grateful for this unforgettable experience the Students' Council has given me, but on the other, it all felt as if everything passed within a blink of an eye and I know I cannot relive those years back again. Also, I might get a bit emotional so please bear with me.

Well, let me give some background information about myself. I am a very anti-social person to begin with and I find it quite hard to blend in with people. When I first entered VCET I had zero expectations whatsoever. As they say "go with the flow, see what life brings to you" that is exactly what I had in my mind. Surprisingly enough, I started to socialize, made a lot of friends and eventually joined the Students' Council.

I started off in the admin team and was blending in quite well. I got to learn the registration process involved in Zeal and basic money management skills. In the second year, I got an opportunity to work as the Assistant Cultural Secretary where I got to work in much creative role. By the Third Year, I was appointed as the Deputy Cultural Secretary and explored a managerial responsibility, working closely with the BEs. And eventually in my Final Year, I worked as the General Secretary which I would say was the highlight of my engineering life. I never realized something was missing in my life until I joined the Students' Council and little did I know that this very committee would give meaning to my mundane life.

Throughout these 4 years, we as the Students' Council organized numerous events including our very own Cultural Fest Zeal. Even during the pandemic, when times were gloomy, we gave it our all to organize events virtually. This entire journey has been such a memorable experience and has given me some amazing life lessons. But the one thing I'll cherish the most, is the People. The bond we've shared and friendships we had in these 4 years is truly unmatched.

This addressal would be incomplete if I don't express my utmost gratitude and appreciation towards the hard-work of the team that made Zeal 2022 possible. In merely a month, we organized Zeal in its traditional offline mode and made this dream of ours into reality. A big thank you to all the members of the BE Council for being such amazing colleagues in this journey. I would like to add a special mention to Sakshi Mhatre and Siddhi Redkar for being there for me and Kudos to us for always supporting each other. I would also like to thank and appreciate my juniors i.e. the Third year and the Second year Students' Council for the efforts they have put in and I wish them all the best for their upcoming years!

I would like to extend my sincere gratitude towards the Students' Council Coordinator Dr. Sunayana Jadhav and all other council staff members for their constant support and guidance.

Lastly, a message to all readers- You can find meaning and purpose in the littlest of things. Find your reason for happiness and live life to the fullest. The Students' Council has and always will be an integral part of my life and I'll cherish this experience throughout my life.

Muazzam Attar
General Secretary

From the Sports Secretary

William Shankly, the Scottish football player, and manager famously said, "Some people think sports is a matter of life and death. I don't like that attitude. I can assure them it is much more serious than that". The wave of the COVID-19 pandemic caused significant disruption across all fields known to the human race. People were trapped in their homes for almost 2 years. Sporting events were canceled across the world to varying degrees. The pandemic affected the sporting calendar adversely since World War II. After a prolonged wait, in February 2022 colleges were re-opened under social norms. Even though certain restrictions were imposed, when organizing events, making AVAHAN 2022 a grand success was the first thing on our agenda.

The even semester at Vidyavardhini's College of Engineering and Technology always begins with the annual sports festival 'AVAHAN'. It is a celebration where students from all departments compete with each other by participating in over 10 different sports. The cheers of the students supporting their respective teams fill the atmosphere with energy and enthusiasm. Sports has this amazing way of unifying people, no matter where they come from. It was finally time for students of VCET to experience AVAHAN again and take a break from their daily college routine. The main objective of the VCETs Sports Committee was to make people aware of their physical and mental health as well as re-igniting the spirit to get back on the field.

AVAHAN 2022 was conducted from 17th March to 20th March. The grand inauguration ceremony was enlightened by the presence of our principal Dr. Harish Vankudre, chief guest Mr. Akshay Vernekar and Mr. Rakesh Save, Dean of Student Affairs Dr. Amrita Ruperee and Sports-In-charge Prof. Neha Gharat. Following traditions, it gladdened our hearts to witness the fierce and extraordinary competitive spirits among the students representing their respective departments.

On behalf of the VCETs Sports Committee, I would like to extend heartfelt gratitude to the management, principal Dr. Harish Vankudre , Sports in-charge Prof. Neha Gharat, and all the staff members for their unstinting support and encouragement. I would like to thank all our participants who lifted our spirits and granted us this unforgettable week that will be cherished in our memories for years to come. Teamwork is the secret that makes ordinary people achieve extraordinary results. I thank all the committee members for their efforts and cooperation. And this is to each member of this family- "we accomplished something beautiful and great through this event, but we have to keep going because that's what it's all about. The legacy we leave behind the hearts we ignite, and the team spirit that we pass on from one batch to another to make AVAHAN better than the year before".

Thank you again!

Parinistha Sharma
Sports Secretary

TOPPERS OF AY 2020-21

Department	Name of the Student	Class	CGPA
Mechanical	Baisane Prem Phadale Omkar Mishra Raviranjan Ringe Arun	BE	9.64 9.59 9.28 9.12
	Borse Ashish Kadam Sagar Chauhan Devang Jaiswal Pritesh	TE	10 10 10 10
	Patil Riya Pokale Yash Kushte Udesh Shah Jemit Save Kaivalya	SE	10 10 10 10 10
EXTC	Pitodia Abdulmateen Ansari Mustakim Chogule Mansi	BE	9.77 9.32 9.02
	Patil Shraddha Tank Janhavi Salunkhe Omkar	TE	9.92 9.89 9.88
	Raut Kushal Vanjara Riddhesh Dodiya Harsh	SE	10 10 9.89
Intrumen-tation	Tanvi Dalvi Sumit Jadhav Srushti Sakpal	BE	8.87 8.75 8.73
	Mayurbhai Dhaduk Churi Mrugayee Mulya Isha	TE	10 9.78 9.74
	Rohan Patil Riya Raut Peeyush Chourasiya Mistry Shraddha	SE	10 10 9.83 9.75

Computer	Gupte Tapasya Yadav Amit Vartak Jui	BE	9.34 9.33 9.25
	Vedpathak Rithwik Patil Aarti Bhingle Abhishek Gorasiya Tanushree Fegade Viresh	TE	10 10 9.97 9.97 9.97
	Shingte Suyash Dubey Adarsh Karulkar Nidhi	SE	10 9.8 9.8
Information Technology	Bandgar Saloni Singh Vivek Suthar Kirtesh	BE	9.58 9.18 8.97
	Jadhav Granthali Gupta Sweta Yewale Hardik	TE	9.67 9.66 9.64
	Kolvankar Tejas Sankhe Vedant Kadam Aditi	SE	9.83 9.70 9.68
Civil	Manthan Sutrave Ghorai Priya Bavdane Ashish	BE	9.59 9.57 9.54
	Cerejo Alston Ansari Mohammed Faraz Salunkhe Roshni	TE	9.3 8.8 8.43
	Medge Jeevan Parab Sagar Ghelani Jeet Borse Prajakta	SE	8.67 8.42 8.42 8.23

DEPARTMENT OF MECHANICAL ENGINEERING

It gives me an immense pleasure and honor to present the annual report of Department of Mechanical Engineering for the academic year 2021-22. Department of Mechanical Engineering has been accredited by NBA for three years. Department is always striving to contribute the best for students. The various activities and achievements of Mechanical Engineering Department are as summarized below:

Faculty Achievements:

1. **Dr. Uday Aswalekar, Dr. Ashish Chaudhari** received sanction of **Rs. 14.06 Lakhs under AICTE-AQIS (MODROB)** in 2021 for project titled "Variable Compression Ratio accompany with variable ignition location for diesel and petrol engine accommodating different RON fuels in engine".

2. **Mr. Dipak Choudhari, Mr. Vishwas Palve, Mr. Mukund Kavekar, Mr. Ganesh Wahile** are pursuing PhD from 2021-22.

3. **Mr. Swapnil Mane** became certified Energy Auditor, Sept 2021.

Industrial Consultancy:

1. **Dr. Ashish Chaudhari, Mr. Vinay Patel** did consultancy for M/s. Sridevi Tool Engineers, M/s. Synergy Water Park Rides Pvt. Ltd., Vasai **Madhumita Dutta** for M/s. Venus Corporation. **Swapnil Mane, Mr. Vishwas Palve** for ARS Energy Solutions Ltd. **Sanjay Lohar** for M/s Ankush Industries.

Paper Publications/Conference attended:

1. **Dr. Ashish Chaudhari, Mr. Vinay Patel,** International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (AFTMME-2021), IIT Ropar, Dec 9-11, 2021.

2. **Dr. Ashish Chaudhari, Mr. Vinay Patel,** International Conference on International Conference on Theoretical Applied Computational and Experimental Mechanics (ICTACEM2021), IIT Kharagpur, 20th -22nd Dec, 2021.

3. **Dr. Ashish Chaudhari, Mr. Vinay Patel,** International Conference on Progressive Research in Industrial & Mechanical Engineering (PRIME - 2021), NIT Patna, 5th - 7th Aug, 2021.

4. **Dr. Ashish Chaudhari, Mr. Vinay Patel,** International Conference on Mechanical Engineering (INCOME-2021), 25th -26th Nov 2021.

5. **Dr. Uday Aswalekar, Mr. Ganesh Wahile** "Latent Heat Storage System by Using Phase Change Materials and Their Applications", Materials Today Proceedings 52 (2022) 513-517.

6. **Dr. Umeshchandra Mane,** "Knowledge-Based Engineering Approach to Select

Standard Parts and Design Automation for Flange Coupling", Recent Advances in Materials and Modern Manufacturing, Lecture Notes in Mechanical Engineering (ISSN: 2195-4356).

7. **Dr. Umeshchandra Mane,** 5th international conference on Emerging Trends in Mechanical Industrial Engineering, The North Cap University, Gurgaon, Haryana from 4th -5th March, 2022.

8. **Dr. Uday Aswalekar & Mr. Ganesh Wahile,** 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, IIT Ropar, 9th -11th Dec 2021.

9. **Dr. Umeshchandra Mane,** "Modelling of Material Removal Rate in Micro-EDM of Inconel 600 Using Dimensional Analysis", Recent Advances in Materials and Modern Manufacturing, Lecture Notes in Mechanical Engineering (ISSN: 2195-4356).

10. **Mr. Rishabh Melwanki,** 3rd ICRAME, NIT Silchar, 4th -6th Feb 2022.

11. **Mr. Sanjay Lohar,** "Optimization of power and torque with lower exhaust noise for FSAE vehicle", Journal of Physics, IRMAS 2021

12. **Mr. Sanjay Lohar,** "Digital Twin and its Role in Industry 4.0", International Journal of Mechanical and Production Engineering, Vol 9, Issue 12, Dec 2021.

13. **Mr. Dipak Choudhari,** "Design and fabrication of rehabilitation instrument for upper and lower limb", Int Journal for Research in Applied Science and Engineering Technology, Vol 10, Issue V, May 2022.

14. **Mr. Ganesh Wahile**, Sandip Foundation, Nashik, 17th -18th Sept 2021.

15. **Mr. Ganesh Wahile,** "Artificial Intelligence for Prediction of Performance and Emission Parameters of CI Engine Using Bio-Fuel", AIP Conference Proceedings, 13th Sept. 2021.

NPTEL Courses

1. **Mr. Sanjay Lohar** completed NPTEL courses on "Introduction to Industry 4.0 and Industrial Internet of Things" from July-Oct 2021.Automation in Manufacturing" from July-Oct 2021.

2. **Mr. Mukund Kavekar** completed NPTEL course on "Introduction to Machine Learning" from Jan-April 2022.

3. **Mr. Mukund Kavekar** completed Udemy course on Biomaterial : Introductory Course for Beginner in Aug 2021.

4. **Ms. Priti Vairagi** completed four week Coursera course on Operation Research Models & Application.

Expert Lectures organized :

1. **Mr. Mukund Kavekar** organized one Week SDP on Heating, Ventilation, and Air Conditioning (HVAC) Skill Enhancement Program from 14th-18th Feb 2022.

2. **Mr. Vishwas Palve, Mr. Parag Sarode**

organised SDP on Hands on session on SOLIDWORKS on 26th and 27th March, 2022.

Alumini Interaction :

1. **Mr. Santosh Tamhane, Founder & Director of Foretelics Technologies** discussed on "Career opportunities in Analytics and Business Analysis".

2. **Mr. Davesh Chawla, Proprietor Avon Engineers** discussed on "Manufacturing Process for Die and Tool Design".

3. **Mr. Ketan Patel, Working with DXC Technology Sydney, Australia** discussed on "Information Technology - Cloud".

4. **Mr. Kiran Naik, Manager at M/s. Kapiva** discussed on "Sales & Marketing - Consumer Products".

5. **Mr. Mandar Padgaonkar, Working at TATA Consulting Engineers Ltd. as General Manager** discussed on "Product Engineering and Product Development".

6. **Mr. Jeffry Jacob, Partner with KPMG Business Consulting team in India** discussed on "Strategy & Business Consulting - Automotive & Industrial".

7. **Mr. Rahul Chemburkar, General Manager, Strategic Sourcing in Automotive & Farm Sector of Mahindra & Mahindra Ltd.** discussed on "Sourcing-Supply Chain Management".

8. **Mr. Avin Joshi, Founder of Digital Healthcare Company** discussed on "Healthcare Technology".

9. **Mr. Pinakeen Shah, working with Aker Solutions as a Head of the Department - Information Management for Subsea Business** discussed on "Engineering Information Management".

Industrial Visit :

1. **Dr. Ashish Chaudhari** organized Industrial visit for DMS at M/s. Ekta cranes Pvt. Ltd., Vasai on 21st Feb 2022.

2. **Mr. Vinay Patel, Mr. Raahul Krishna** arranged Industrial visit of T E (Sem. VI), Div-A & B at: Uni-therm Boilers Pvt.Ltd. Naigaon (E), dated 8th April, 2022,

3. **Ms. Madhumita Dutta, Ms. Priti Vairagi, Mr. Rishabh Melwanki, Mr. Swapnil Mane** arranged Industrial Visit to Apollo Industrial Corporation for third year students.

4. **Mr. Siddhesh Mane** arranged Industrial visit of BE (Sem.VIII), Div-A at: Uni-therm Boilers Pvt.Ltd. Naigaon (E), dated 8th April, 2022, Power Engineering.

Student's Achievements :

Result for Academic Year 2021-2022 :

Sem III Toppers

Rank	Name	Pointer
1	Sakpal Aditya Santosh	9.71
1	Yadav Harsh Ashok	9.71
2	Saudagar Yasin Javed	9.58
3	Mishra Vinayak Suryanath	9.54

Sem. V Toppers

Rank	Name	Pointer
1	Vidhit Chandrashekhar D.	9.59
2	Manisha Kushwaha	9.55
3	Hardik Mahesh Bhise	9.5

Sem. VII Toppers

Rank	Name	Pointer
1	Devang M. Chauhan	10
1	Ashish Ramu Borse	10
2	Nishant Vijay Gawad	9.96
3	Manal Ajit Vartak	9.84
3	Sagar Vijay Kadam	9.84
3	Debashish Ranjan Das	9.84

Campus Placement

Company Name	Total No. of Students Palced
TCS	7
Wipro	2
Infosys	5
LTI	1
JACOB	1
IOS Commerce	1
Patil Machines Pvt Ltd	2
ZECO Aircon Limited	1
Thermolab	1
S-Crane	2
Pragati Switchgears	1
Aarti Drugs	1
VAAMAN ENGINEERS	1
TECHNIMONT	3
Zeus Learning	1
Davison Instruments Pvt Ltd, Vasai	1
Glaum Enclosures Pvt Ltd, Vasai	1
Jaro	1

Placements are still undergoing for the remaining students of BE Mechanical. 192 students did internship in 61 companies.

Students Other Achievements :

1. **Sarvesh Vartak, Sagar Vaze** presented the paper titled, "CFD analysis of Cactus and Inverted Trapezoidal shape fin profile for four stroke IC engine", at 3rd ICRAME, NIT Silchar, 4th -6th Feb 2022.

2. **Sarvesh Vartak, Sagar Vaze, Shripad Thakur, Anchit Tare** won first position in VNPS Minor Project held on 13th April, 2022.

3. **Shridhar Kashalkar, Nishant Patil, Rohan Kamble, Vaibhavi Murkar** won first prize in National Level Project competition "TECH EXPO-2022" organized by Pravara Rural Engineering College, Loni on 30th April,2022.

4. **Jatin Vira, Devang Chauhan, Sagar Kadam, Kunal Shinde** won First prize at TECHOTSAV 2022 organized by Datta Meghe College of Engineering Navi Mumbai on 30th April, 2022.

Dr. U. V. Aswalekar
HOD,
Mechanical Engineering

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

In this academic year the department has achieved some remarkable achievements. This report gives you details about the achievements and activities conducted in the department.

FACULTY ACHIEVEMENTS / RESOURCE PERSONS

• Dr. Vikas Gupta was invited as a session chair in Multicon-W2022 13th International & National Conference & Workshop, at TCET, Kandivali (East).

• Dr. Amrita Ruperee was invited as a guest speaker at the 11th International Conference on Electronics, Communication and Networks which was held in Beijing, China (online mode). She is Reviewer for Physical Communication, Elsevier's Reviewer Hub, NX Amsterdam, Netherlands and International Journal of Communication Systems, Wiley publications, Hoboken, NJ, USA.

• Dr. Sunayana Jadhav was invited as session Chair, IEEE International Conference for Intelligent Technologies (CONIT-202 I) Technically Co-sponsored by the IEEE Bangalore section in KLE Institute of Technology, Hubballi. She was invited as a resource Person in FDP on "Sensor Technology" at Xavier Institute of Engineering, Mumbai.

• Many faculty members were convenors and members of the syllabus revision committee for R'19 syllabus scheme of Mumbai university.

WORKSHOPS / WEBINARS CONDUCTED

• Ms Shaista Khanam conducted a Workshop on "Arduino and Raspberry Pi" and Webinar on "Fundamentals of Embedded Systems with Journey of Microcontroller" at Atharva College, and a Workshop on "Node MCU-IoT Applications" at RGIT, Mumbai.

• Ms Trupti Shah conducted a seminar on "Learning with Octaves" at VCET, Vasai.

• Dr Sunayana Jadhav, Ms. Shaista Khanam, Ms. Ekta Naik and Ms. Trupti Shah conducted a Workshop on "Steps towards VLSI design using FPGA" at VCET, Vasai.

• Ms Shaista Khanam and Ms. Trupti Shah conducted a Workshop on "Aurdino" at VCET.

• Ms. Shaista K., Ms. Ekta N. and Ms. Trupti S. conducted two weeks internship training on "Embedded System using Texas Instruments Microcontroller" at VCET, Vasai.

PUBLICATIONS IN CONFERENCE / JOURNAL

• Dr. Sunayana Jadhav presented a Paper titled "BMS for Electric Vehicle (Paper ID: 604)"SCRS book series "Artificial Intelligenceand Communication Technologies" (Open Access| ISBN 978-81-955020-5-9).

• Ms. Trupti Shah presented a paper titled "A Chatbot as a first responder for Panic Attack" at the IEEE conference held in Pillai College, Mumbai

• Ms. Shaista Khanam and Ms. Trupti Shah presented a paper "Smart Solar Tracker with Energy Monitoring" at the IEEE conference held at Mother Teresa College, Tamil Nadu.

• Ms. Shraddha Gosavi presented a paper titled Light weight cryptography for security in IoT devices at ICCCDS, 2022 held at TCET, Kandivali, Mumbai.

STUDENT ACHIEVEMENTS

• Mr. Akhilesh Y., Mr. Akash Y., and Mr. Sikandar K. have presented a paper titled "BMS for Electric Vehicle" SCRS book series "AI and Communication Tech." (Open Access| ISBN 978-81-955020-5-9).

• Ms. Khushi Shah, Shraddha Patil, and Akshata Patil won the second prize in the project competition held at VIVA Institute of Technology, Virar.

• Ms. Prachi Purohit presented a paper titled "A Novel Communication Network Level Steganalysis System" at the international conference held at NFSU, Gujarat.

• Ms. Adisha Waghare, Snehal Singhi, and Prerna Tiwari presented a paper "Light weight cryptography for security in IoT devices" at ICCCDS-2022 held at TCET, Mumbai.

• Ms. Nalanda Patil and Nishant Patil (E06-Team Ethan Racing Electric VCET) participated in 5th Annual FSEV Concept Challenge (FSEV 2021).

• Mr. Shubham Bari, Ms. Shruti Kuvekar, Ms. Komal Gupta, and Rohit Chavan presented a paper titled "Smart Solar Tracker with Energy Monitoring" at the IEEE conference in Mother Teresa College, Tamil Nadu.

• Mr. Akash Sankhe, Mr. Rushikesh Sawant, and Dhanush Shetty secure the first prize for the project titled "Design and Implementation High-Speeded 8-bit Carry Save Adder Using Xilinx" in the national level project showcase VNPS'22.

• Mr.Naman Darveshi, and Mr. Akash Gawas presented a paper titled "Intelligent assistance for smart shopping" at ICCCDS Conference on Communications, Computing, and Data Security - 2022 held at TCET, Kandivali, Mumbai.

• Ms. Bhakti Raigawali, Ms.Tejaswi Parsekar and Ms. Bhumika Bhoir presented

a paper titled "Automatic Street Light & Fault Detection" using IoT ICCCDS-2022 held at TCET, Kandivali, Mumbai.

- Mr. Pawan Singh, Mr. Sarvesh Sant, Ms. Mrudula Bidvi, Ms. Hetsi Parmar won first and Mr. Vaibhav Mishra, Ms. Dhanashree Tandel, Mr.Sankalp Chauhan, Ms. Lakitaa V. won second prize and Mr. Achintya Nagar, Mr. Shubham Shukla, Mr. Ankit Pandey, Mr. Vikas Yadav won the consolation prize in Oscillations organized by IETE -SF VCET.

- Mr. Nikhil Kargatia, Ms. Vadehi Gohil, Mr.Omkar Dhuri, and Mr.Samarth Kole won the consolation prize in Oscillations organized by IETE -SF VCET.

- Shubham Bari, Ms. Komal Gupta, Mr. Rohit Chavan, and Mr. Aniruddha Mane won first prize in Oscillations organised by IETE -SF VCET and first prize for the project titled Smart Solar Tracker in the national level project showcase VNPS'22.

- Mr. Rahul Kamble, Mr. Apurva Gurav, Mr. Hrithik Wayal, Mr. Shreyash Takke won first prize and Mr. Aniruddha Kamble, Mr. Chinmay Raut, Mr. Ashwin Nair, Ms. Omkar Sadadekar won second prize in Oscillations organized by IETE -SF VCET.

- Ms. Parinishta, Ms. Manpreet, Mr. Varun won second prize and Mr. Varad Vartak, Mr. Riddhesh V. MR. Karan Singh, Mr. Kushal Raut secured the second prize for the project "Innovative Mask" and Mr.Nikhil K.,

Ms. Vaidehi Gohil secured first prize for the project "Smart Water Distribution System" and Mr. Sarvesh Sant & Ms. Hetsi Parmar secured the second prize for the project "Sewage monitoring System" in VNPS'22.

VCET IEEE SB ACTIVITIES :

- Webinar on Industrialized AI for business and sustainability, by Dr. Bhushan Jagyasi (A research scientist at Accenture) on 15th Sept 2021.

- "Think Aloud : a group discussion event" on 8th & 11th Oct 2021, and Judges for the events: Dr. Vikas Gupta & Dr. Ashish Vanmali.

- Webinar on "Lyx: Tool for writing papers/reports", by Dr. Ashish Vanmali, HOD IT. on 21st Oct 2021.

- Quiz of FE students "F.E. Quiz" on 18th Feb 2022.

- Workshop on Arduino by Mrs. Shaista K. & Mrs. Trupti S. on the 4th & 7th March 2022.

- Seminar on the "STEM Project", by Dr. Amrita Ruperee Dr. Sunayana Jadhav, Mrs. Shaista Khanam, Mrs. Trupti Shah on 15th and 21st March 2022.

- VCET IEEE SB and IETE SF have organized VNPS : Project showcase on 13/04/22.

- Webinar on, "Modulation Technique in Air Navigation" on 21st April 2022 by Mr. Akshay Gaitonde.

VCET IEEE SB ACTIVITIES:

• Quiz "Quizzards of Techno" on 15th September 2021.

• Webinar on, "Build Your Own PCB" on 13th October 2021 by Mr. V. V Kale (Director, Phenix Electronics).

• Webinar on "VLSI Technology 1.0 -VHDL Programming and IP Implementation" through FPGA" on 13/10/2021 by Mr. M. Vasmatkar (Assistant Professor, VESIT).

• Webinar on, "Scope of Embedded System in Real Life Applications" on 1st February 2022 and "Fundamentals of Embedded C" on 9th April 2022 by Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics).

• Workshop on "Learn with Octave" on 11th February 2022 by Ms. Truti Shah (VCET).

• Inauguration of Oscillations'22 of IETE-Mumbai centre followed by a session on "Introduction to ML and its industry applications" on 18/02/22 by Mr. Shailendra Kadre, (Digital Transformation and ML Lead Data Analyst, HP Inc, Bangalore).

• Workshop on "FPGA" conducted by Dr. Sunayana Jadhav, Ms. Shaista Khanam, Ms. Trupti Shah, Ms. Ekta Naikon 24th,25th, and 28th February 2022

• Oscillations'22 - Technical Paper Presentation organised on 30th March 2022, the event is judged by Mr. Atul Wad (VP and Business Head), Dr. Suvarna Bhise (Secretary IETE MUMBAI CENTER) and Dr. Anjana Rodrigues (NMIMS).

• ETA published the annual technical magazine "Pulse 22" on 13th April 2022.

• **ACADEMIC RESULTS:**

Patil Shraddha Ashok (BE) - 9.46
Sankhe Akash Nitin (BE) - 9.4
Waghmare Adisha (BE) - 9.2

Vanjara Riddhesh Dipesh (TE) - 9.935
Raut Kushal Dipak (TE) - 9.72
Dodiya Harsh Nitesh - 9.68

Patil Vijay (SE) - 9.69
Karagatia Nikhil (SE) - 9.44
Parmar Hetsi (SE) - 8.92

- **PLACEMENT RECORD:**
- Wipro (17)
- Infosys (13)
- TCS (11)
- Capgemini (8)
- Zensar (6)
- Zensoft (5)
- LTI (4)
- Hexaware (2)
- Virtusa (2)
- Vistar, Vodaphone, Feedspot one each.

Dr. Vikas Gupta
HOD
Electronics and
Telecommunication Engineering

DEPARTMENT OF INSTRUMENTATION ENGINEERING

Dear Members,

Welcome to the AY 2021-2022 annual report! During the year covered by this report, the department has achieved remarkable milestones in each aspect. This annual report provides you with more details of each of the activities.

Journal Paper Publications :

1. Research paper title "An Integrative Approach for Analysis of Nonlinear Electrical Circuits Using-Polynomial B-Spline Expansion and B-Spline Krawczyk Operator" published in Scopus listed journal, International Journal of Applied and Computational Mathematics, Springer by Dr. Deepak Gawali.

2. Research paper title "Constrained global optimization of multivariate polynomials using polynomial B-spline form and B-spline consistency prune approach" published in Scopus listed journal, RAIRO - Operations Research, EDP Sciences by Dr. Deepak Gawali.

Activities Conducted by the Department :

1. ISA VCET SC faculty incharge Prof. Mugdha Salvi, organized online seminar on "Introduction to Functional Safety" for students of third year and final year Instrumentation engineering on 21st April 2022 which was delivered by Mr. Lalit S. Shaiwale from SST Technologies, Navi Mumbai.

2. Two weeks Internship for Third year students on AVEVA P&ID software under AVEVA Instrumentation Centre of Excellence, by Dr. D. D. Gawali, Prof. Kanchan Sarmalkar, Prof. Mugdha Salvi and Prof. Deepti Patne from 06th December 2021 to 17th December 2021.

3. Prof. Mugdha Salvi organised online Expert Lecture on "Application of GC, HPLC and UPLC in Industry and Career Opportunities in Analytical Instrumentation" delivered by Mr. Aditya Tarphe who is our alumni and Instrumentation Engineer in Zelle Biotechnology Pvt. Ltd. It was conducted on 14th October 2021.

4. Prof. Mugdha Salvi organised online Expert Lecture on "Biomedical Instrumentation : Current trends and Career Opportunities in India" delivered by Mr. Tarun Nair who is our alumni. It was conducted on 13th October 2021.

5. Prof. Kanchan Sarmalkar organised an online Expert Lecture on "DCS I/O Cards" for BE students under Industrial Automation subject on Tuesday 12th October 2021. It was delivered by Mr. Shaym Adsul, Project Manager, Tata Consultancy Services.

6. Prof. Kanchan Sarmalkar organized an online Expert Lecture on "Embedded systems & Arduino Interfacing" for TE students under "Applications of Microcontroller" subject on 12th October 2021. The lecture was delivered by Mr. Harshavardhan Kadvekar, STEM

Curriculum Developer, Zephyr Toymakers Pvt. Ltd.

7. Prof. Deepti Patne organized an online seminar on "Flow Transmitters for Process Industry" on 12th August 2021 between 3.00pm. to 5.00pm. for BE Instrumentation Students. Speakers was Mr. Hemal Desai (Vice president - Endress +Hauser).

8. Prof. Deepti Patne organized an online seminar "Mechatronics for Instrumentation" 28th on July 2021 for TE Instrumentation Students. Speakers was our alumni Mr. Navin Chagganti and Mr. Nishant Kaku (2012 batch Pass out).

STTP/FDP/ ATAL FDP :

Following faculty attended number of STTP/FDP/ ATAL FDP conducted by different institutes as mentioned below :

Sr. No.	Faculty Name	STTP	FDP	ATAL FDP
1	Dr. Deepak Gawali	1	-	1
2	Prof. Kanchan Sarmalkar	1	2	1
3	Prof. Mugdha Salvi	1	2	2
4	Prof. Deepti Patne	1	2	2

Students Achievements :

1) Ms. Ragini Nair (TE Instr 2021-22) declared as 1st Prize Winner in JAM (Just a Minute) event organised by VCET'S EK BHARAT SHRESHTH BHARAT COMMITTEE (EBSB) on 26th January, 2022.

2) Mr. Sushant Dinesh Shetty (TE Instr 2021-22) and Ms. Seema Palkar (TE Instr 2021-22) declared as 2nd Prize and 3rd Prize Winner respectively in HANDMADE POSTER event organised by VCET'S EK BHARAT SHRESHTH BHARAT COMMITTEE (EBSB) on 26th January, 2022.

3) Ms. Ragini Nair (TE Instr 2021-22) declared as 1st Prize Winner in Raise Your Voice event organised by VCET - NSS COMMITTEE on 27th January, 2022.

SEM. 3 Toppers :

Sr. No.	Name	Pointer
1	Vishal Purushu	9.63
2	Riya Dutta	9.58
3	Shreya Shetty	9.5

SEM. 5 Toppers :

Sr. No.	Name	Pointer
1	Peeyush Chourasiya	9.36
2	Riya Raut	9.32
3	Rohan Patil	9.32
4	Shraddha Mistry	9.27
5	Adarsh Ottupurath	9.27
6	Darshan Pawar	9.27

SEM. 7 Toppers :

Sr. No.	Name	Pointer
1	Murgayee Churi	9.85
2	Harinarayan Jaiswal	9.85
3	Snehal Kulabkar	9.69
4	Mayurbhai Dhaduk	9.69
5	Athang Sankhe	9.54
6	Ishaa Mulya	9.54
7	Akshada Dhonde	9.54

Dr. Deepak Gawali
HOD
Instrumentation Engineering

DEPARTMENT OF COMPUTER ENGINEERING

It gives me pleasure to present the annual report of Computer Engineering Department for the Academic Year 2021-22. The year marked an important achievement in the accreditation of the Department by the National Board of Accreditation. Also, there were a great number of activities involving students as well as faculty members. The overview of the same is as follows :

Guest Lectures/Webinars/SDPs/Industrial visits and other events organized in the Department:

Sr. No.	Activity	Date
1	SDP on "Cyber Security: Individual, Technology, and Research Trends"	21st - 26th June 2021
2	Workshop on "Full Stack Development" by Ms. Najiba Halim	15th - 17th July 2021
3	Seminar on "Inner Engineering for upcoming Engineers" by Mrs. Poonam Surange	12th July 2021
4	Refresher Course was conducted for BE students by Mr. Tatwadarshi P. Nagarhalli, Mrs. Smita Jawale and Mrs. Sneha Mhatre	1st - 5th August 2021
5	Seminar on "Software Engineering.. industry approach of the subject and practical knowhow of Scrum and Kanban" by Mr. Nilesh Jain	11th August 2021
6	Webinar on "Competitive Coding Strategies" by Ms. Najiba Halim	13th August 2021
7	Seminar on "Research Paper Writing and Referencing Tools: An Overview" by Dr. Shafi Pathan, Dr. Tatwadarshi P. Nagarhalli and Prof. Sneha Mhatre	27th August 2021
8	Workshop on "Coding Skills" by Mr. Sharvin Dedhia, Mr. Saumya Parikh and Ms. Rachana Pandey	9th September 2021
9	Webinar on "Importance of Coding in Placement" by Mr. Rithwik Vedpathak, Mr. Abhishek Bhingle and Ms. Neha Shah	9th October 2021
10	Expert Lecture on "DynamoDB" in Advanced Database Management System by Mr. Yogesh Jadhav, Adjunct Faculty, School of Data Science and Business Intelligence, Mumbai	14th October 2021
11	International Webinar on "Application of Statistics in Research" by Dr. Sabir Ali Siddiqui from Dhofar University, Salalah, Oman	15th October 2021
12	Seminar on "Undertaking Literature Review" by Dr. Tatwadarshi P. Nagarhalli and Prof. Sneha Mhatre	28th October 2021
13	Seminar on "Career opportunities in Web Application Development" by Mr.Sumit Anglekar	29th October 2021

14	Industrial Visit at L&T, Madh, Mumbai	22nd Dec. 2021
15	Expert Lecture on "Natural Language Processing" by Mr. Sachin Pawar Scientist at TCS and Nitin Ramrakhiyani Scientist at TRDC, TCS	11th March 2022
16	Expert Lecture and handson session on "Demonstration of Database Connectivity"	30th March 2022
17	Seminar on "Self-Assessment and Goal Setting" by Mrs. Poonam Surange	01st April 2022
18	Expert Lecture on "Hypothesis Testing" by Dr. Teena Trivedi, UCoE	12th April 2022
19	Seminar on "Literature Review" by Dr. Tatwadarshi Nagarhalli and Prof. Sneha Mhatre	31st May 2022

Apart from these,

• Adjunct faculty, Mr.Yameen Liyakat Hakim, Director, Bluebox Technology India Private Limited, Pune conducted lectures series on Python and Data Science Advance Python & Data Science capstone project and for SE and TE students

• Various activities were organized by the CSI (Branch Councesllor- Mr. Sunil Katkar) and Bit Byte Go- Codechef chapter (Faculty advisor-Mrs. Kranti Gule). Also the department newsletter, wall magazine and the e-magazine were published (Faculty advisor- Mr. Vikrant Agaskar)

• On behalf of University of Mumbai, an Orientation Programme for the Internet of Things (Department Level Elective II), R2019- Sem 6 of Computer Engineering was hosted on Friday, 7th Jan 2022 through online mode. Dr. Sagar Tambe coordinated the event.

• Internal Internship on "Application Development on Fire Bird V Robot" was successfully conducted from 13th Dec. 2021 to 24th Dec. 2021 through Eyantra Robotics Laboratory.

• 2 weeks Internship on "Data Science" was conducted in association with Mumbai Metropolitan Region Development Authority (MMRDA) for UG students from 20th June, 2022 to 1st July, 2022 by Dr. Tatwadarshi P. N.

Activities by Faculty members :

• Faculty members participated in a variety of orientation programs, faculty development programs, seminars, workshops, and training programmes to improve their skills and stay up to date on the latest technology and trends.

• Dr. Tatwadarshi Nagarhalli successfully defended his PhD in Computer Engineering. His thesis was titled 'An Innovative Approach for the Development of Question Answering System for the Mahabharata and its Evaluation'.

• Dr. Megha Trivedi was the Principal Investigator for Industry Collaborated Project-Sewer Cleaning Robot with Janyu Technologies Pvt. Ltd. Dr. Tatwadarshi P. N. and Mr. Anil Hingmire are members associated with the project.

• Mrs Smita Jawale conducted a guest lecture on "UML diagrams in Software Engg. for IT students, VCET Vasai on 21st August 2021.

• Mr. Sunil Katkar conducted a special online session on "Digital Circuit Optimization and Manipulation using K-Map" for LR Tiwari College of Engineering on 7th Dec. 2021.

• Mrs. Smita Jawale published a book on Internet Programming (DLOC for Computer Engg /Semester V) by Tech knowledge Publication.

• Dr. Sagar Tambe completed the Reviewer process of the Research paper and appreciated by the International Conference Advancement of Technology (ICONAT), IEEE Bombay Section on 21st & 22nd Jan. 2022. Dr. Tatwadarshi P. N. was reviewer for IEEE Access.

• Mr. Vikrant Agaskar was a judge for the Vidyavardhini's National Level Project Showcase, VNPS on 13th April 2022.

• Dr. Megha Trivedi was external Academic Auditor at St. Xaviers Institute of Technology, Bandra on 13th April 2022.

• Dr. Megha Trivedi, Dr. Tatwadarshi N. and Mrs. Sneha Mhatre conducted a discussion session on Implementation of Examination Reforms organised by IQAC from 09th & 10th March 2022.

• Dr. Megha Trivedi was a judge for Technical Paper Presentation Event Oscillation'22 organised by Department of Electronics and Telecommunication Engg., VCET.

• Dr. Megha Trivedi served as a reviewer for the International Conference on Automation, Computing and Communication (ICACC-2022) which was conducted virtually on 7th & 8th April 2022.

• Dr. Megha Trivedi delivered a session on "Innovation in Teaching Learning" in the IEEE sponsored FDP "Education 4.0: Tools for Effective NEP 2020 Implementation" organised by Thakur College of Engineering and Technology on 30th June 2022.

• Dr. Swapna Borde served as a reviewer for the International Conference on Innovative and Emerging Trends in Electrical, Electronics and Computer Engineering (ICIETEECE-22) organised by LNCT group of colleges Bhopal on 29th - 30th June 2022.

• Dr. Tatwadarshi P. N. conduced a session on securing Copyright for the faculty members of the department.

• Dr. Tatwadarshi P. N. conducted 4 days training sessions on "Artificial Intelligence and Machine Learning" at Mumbai Metropolitan Region Development Authority (MMRDA) from 15th to 19th March, 2022.

• Dr. Tatwadarshi P. N. was the Principal Investigator for Industry Collaborated Project 'Digital Orbit'. Mr. Sharvin Dedhia, Mr. Pritish Mair, Mr. Omkar Ghanekar and Mr. Muhammed Shahid Siddiqui, were members of team.

• Mrs. Sneha Mhatre was the Principal Investigator for Industry Collaborated

Project 'Website Development' for Fiduciary. Team comprised of Mr. Rahul Pujari, Mr. Adarsh Dubey, Mr. Mihir Thakur and Mr. Suyash Shigate.

Book Chapter :

• Dr. Tatwadarshi P. Nagarhalli Authored a Book Chapter titled "Fundamental Models in Machine Learning and Deep Learning" in "Design of Intelligent System using Machine Learning and Deep Learning" published by CRC Press, Taylor & Francis Group, in August 2021.

• Dr. Tatwadarshi Nagarhalli edited the book titled "Cyber Security Threats and Challenges facing Human Life" to be published by CRC press, USA.

• Dr. Tatwadarshi Nagarhalli, Mr.Sanket Patil and Mrs. Sneha Mhatre wrote a book chapter titled "Evaluating the Effectiveness of Convolution Neural Network in Detecting Brain Tumour" in "Next Generation Healthcare Systems Using Soft Computing Techniques" published by CRC Press.

• Dr. Tatwadarshi P. Nagarhalli authored a Book Chapter titled "Analysis of Recurrent Neural Network and Convolution Neural Network Techniques in Blood Cell Classification" in "Next Generation Healthcare Systems Using Soft Computing Techniques" to be published by CRC Press, Taylor & Francis Group in September 2022.

Copyrights :

• Copyright on "An application for Face Recognition and Clustering" was filed by Mrs. Sneha Mhatre, Adarsh Dubey, Suyash Shingte and Muhammed Shahid Siddiqui.

• Copyright on "A report on Earthquake Detector Alarm using Arduino" was filed by Mrs. Sneha Mhatre, Mr. Atharva Deshpande, Mr. Nachiket Choudhary, Mr. Prasad Nijai.

• Copyright on "Arogya Sheti : an all-in-one App to help farmers making farming easier" was filed by Mr. Sanket Patil, Mohit Singh, Sarvesh Kale and Avdhoot Jadhav.

• Copyright on "AUTOQA AI: A Question Answering Application for Human Language Understanding" was filed by Dr. Tatwadarshi P. Nagarhalli, Manish Nayak, Yash Patil, Altaj Virani and Rakesh Yadav has been approved for registration.

• Copyright on "An Application for Communication for the Unspoken" was filed by Dr. Megha Trivedi, Sharvin Dedhia, Pritish Mair and Soham Waghmare.

• Copyright on "Travel Buddy: A Tourist System" was filed by Dr. Tatwadarshi Nagarhalli, Harshil Patel, Nidhi Karulkar, Omkar Ghanekar and Ruchali Mhatre.

• Copyright on "An Innovative Approach for the Development of Question answering System and its Evaluation" was filed by Dr. Tatwadarshi Nagarhalli.

• Copyright on "Brain-Computer Interface cutting edge Technology using AI for future communication" with Canadian Copyright filed by Mr. Anil Hingmire.

Patent:

- Patent entitled "Intelligent AI and IOT based Energy management system architecture for smart grid Technology" was filed with the Indian Government by Mr. Anil Hingmire
- Patent entitled "An IOT Sensor Based Secured Automatic Payroll System using Double Factor Authentication" was filed with the Indian Government by Mr. Sunil N. Katkar.

Paper Publication : 14 papers were published by faculty members (Dr. Megha Trivedi -3, Dr. Tatwadarshi Nagarhalli-4, Dr. Sagar Tambe-1, Mr. Anil Hingmire-1, Mrs. Smita Jawale-2, Mr. Sanket Patil-1, Mrs. Sneha Mhatre-4) and students in various IEEE conference proceedings and UGC-Care journals.

Results for Academic Year 2021-2022 : Academic results were 100% for SE, TE and BE. The list of toppers is as follows :

Class	Name of Student	Grade [CGPI]	Class	Name of Student	Grade [CGPI]	Class	Name of Student	Grade [CGPI]
BE	Manasvi Mhatre	TE	10	Neha Vijay Kumar	10	SE	Polomi Adak	10
BE	Promita Panja	TE	10	Suyash Shingte	10	SE	Mohit Raje	10
BE	Aarti Patil	TE	10	Subin P. Santosh	10	SE	Aditi Sawant	10
BE	Prathmesh Ramane	TE	10	Pritish Mair	10	SE	Akhila Anilkumar	10
TE	Mayank Rokade	TE	10	Nidhi Karulkar	10			
TE	Reetu Awasthi	TE	10	Ruchali Mhatre	10			
TE	Sarvesh Kale	TE	10					

Placements on Campus :

Company	No. of Student	Company	No. of Student	Company	No. of Student
LTI	13	Zensoft Services	01	Media.net	03
Morgan Stanley	01	Zeus Learning	01	Zensar	01
Interactive Broker	03	Wipro Pvt. Ltd.	08	V2STECH Solutions	01
Infosys	16	Virtusa	11	Capgemini	03
TCS	22	Mindtree	01	Tata Power Co. Ltd.	01
RAW Engineering	01	Drip Capital	01		

- **Students Achievements :**

• Ms. Rachna Pandey was one of the 10 students selected from all over India to as a Software Engineer Intern, at Uber with salary 1 lakh 60 thousand per month.

• Ms. Rachna Pandey got placed at Morgan Stanley at the package of 18 lakh.

• Mr. Ritwik Vedpathk, Mr. Abhishek Bhingale, Ms.Neha Sah got placed in Interactive Brokers with the package of 9.33 lakh.

• Mr. Aditya Pandey got placed in Drip Capital Service India LLP with the package of 12 lakh.

• Mr. Pritish Mair secured 1162 rank in Google Hash Code.

• Mr. Altaj Virani secured 3rd rank and Mr. Rakesh Yadav secured 7th rank among 4000 participants in iB ARTS CODING HUNT contest.

• Mr. Samarth Paney designated as Campus Ambassador within E-Cell, IIT Bombay.

• Mr. Avdhoot Jadhav is certified as Postmam Expert Student. The Postman Student Summit was the comprehensive online API event for students.

• Research proposal titled "Prediction of Delayed Trauma Following an Ischemic Stroke Using Machine Learning Algorithms" by Ms. Sakshi Mhatre and Ms. Manasvi Mhatre and "Prediction of Signify: Communication for the unspoken" by Pritish Mair, Sharvin Dedhia and Soham Waghmare under the guidance of Dr. Megha Trivedi were presented at Selection Round of 16th Avishkar Research Convention: 2021-22 organized by the University of Mumbai.

• Mr. Mankrit Singh secured global rank 1705 in TCS CodeVita Season 10.

• Mr. Mohit Raje won a silver badge for python on Hackerrank.

• Students participated enthusiastically in the annual sports and cultural festival and won laurels in several events.

• Students successfully completed internship assignments at various renowned companies/organizations such as Gurugram Police, FOSSEE-IIT Bombay, BARC-Tarapur, MMRDA. Arti Drugs Pvt. Ltd., etc.

Dr. Megha Trivedi
HOD.
Computer Engineering

DEPARTMENT OF INFORMATION TECHNOLOGY

Academic year of 2021-22 started with a lot of uncertainty due to the prevalence of Covid-19 pandemic. Delay in the admission process, changing examination schemes and uncertainty in online-offline teaching were the key challenges this year. Also, the NBA accreditation visit was about the corner. Overcoming these challenges, the IT Department obtained the highest marks among the departments that went for accreditation. This was all possible due to the tireless efforts taken by all the staff members of the department and support of students and other stakeholders. I take this opportunity to thank all of them and present the activities and achievements of staff and students, which brought laurels to the Department and the Institute.

Faculty & Staff Achievements :

• Patent by Mr. Yogesh Pingle on "Intelligent Wearable Sweat Sensor Based Device for Monitoring and Recommending Personal Physical Fitness" was published in Official Journal of The Patent Office No.202111032293 A, 2021

• Mrs. Vaishali Shirsath authored a chapter **"An assessment on Game-based Cyber Defense Strategy for SDN"** in monograph *Cyber Security Threats and Challenges Facing Human Life,* CRC Press, Taylor and Francis Publications.

• Mr. Chandan Kolvankar, Mr. Yogesh Pingle and Mr. Sainath Patil authored book **Internet Programming** (ITC501 Information Technology)

• Mrs. Anagha J. Patil authored 5 books viz., **Computer Network Security** (ITC502 Information Technology), **Data Warehousing and Mining** (CSC504 Computer Engineering), **Cryptography and System Security** (CSC602 Computer Engineering), **Data Mining and Business Intelligence** (ITC601 Information Technology), **Information Security** (Elective II - 310254(A)).

• Mr. Yogesh Pingle authored a book Internet of Things (ISBN : 978-8195567232) for SYBGEN Learning India Pvt Ltd.

• Seven papers were published by the faculty members of the IT department in reputed journals and conferences. This includes papers published by Dr. Archana Ekbote (1), Mrs. Vaishali Shirsath (2), Mr. Sainath Patil (1), Mrs. Anagha J. Patil (2) and Mr. Yogesh Pingle (1).

• Dr. Ashish Vanmali, Mrs. Vaishali Shirsath, Mr. Sainath Patil, Mr. Yogesh Pingle served as Chairman/Member for revision of syllabus for R-2019 scheme of University of Mumbai.

• Dr. Ashish Vanmali, Dr. Madhavi Waghmare, Mrs. Vaishali Shirsath, Mr. Sainath Patil, Mrs. Anagha J. Patil, Mr. Yogesh Pingle, Mrs. Swati Varma worked as Resource Speaker for various Workshops / Seminars / FDPs / STTPs / FOPs.

• Dr. Thaksen Parvat, Dr. Ashish Vanmali, Dr. Archana Ekbote, Dr. Madhavi Waghmare,

Mrs. Vaishali Shirsath, Mr. Yogesh Pingle served as Distinguished TCP Member / Reviewers for reputed journals and conferences.

• Staff members of IT Department has always taken effort to keep their knowledge up to date by participating in different STTPs, FDPs, Webinars, Seminars, FOPs, Online courses etc. Total 50 such programs were attended by IT Department faculty members in last academic year.

• Dr. Thaksen Parvat worked as PhD Thesis evaluator for Shri Jagdishprasad Jhabarmal Tibrewala University, Rajasthan.

• Faculty members held responsibilities of various institute level committees.

Academic Results :

The results for SE, TE and BE are 100% for the academic year 2021-22. The toppers of these class are as follows :

Year	Name of Student	CGPI
BE	Madhvani Soham Bharghav	9.16
TE	Kolvankar Tejas Jeevan	9.40
SE	Shah Vatsal Harish	9.3

Placement Record :

This year IT department students have set a new record with 149 total offers to 54 students. It implies that the students have on an average 2.8 = 3 placement offers per student.

Company	No. of Offers Received
AiBorne Tech	1
Atos	5
Capgemini	11
Contentstack	2
Dear Digital	5
Deloitte	2
Evosys	5
First hive	2
IBM	2
Infosys	10
Instazen	2
LTI	11
MAQ software	1
Media.net	4
Mindtree	1
Raja Software Labs	1
Tata Power Company Ltd	3
TCS	21
Virtusa	11
Wipro	27
Zensar	5
Zensoft	9
ZEUS Learning	1
Techno Win IT Infra Pvt Ltd	3
Hexaware	2
Coditas Solutions	2
Total No. of Offers	**149**

Students' Performance in competitive exams :

• Sheta Rushank, Pandya Harsh, Shetty Isheet, Jobalia Yash and Katre Romin qualified in the GRE exam.

• Sheta Rushank, Pandya Harsh, Shetty Isheet and Jobalia Yash successfully qualified in the TOEFL exam.

• Dabhi Vikas and Vaghani Ram qualified in IELTS exam.

Students' Achievements :

- Sauravkumar Choudhary, Pruthvi Hajare and Omkar Chavan won the First prize for the project "Smart Helmet Using IoT" in Track 4 of VNPS 2022.
- Jayesh Deorukhkar, Abhishek Dhule and Mayank Agrawal stood Runners-Up in Track 4 of VNPS 2022 for the project "Drivers behavior analysis using deep learning"
- Vishal Gupta, Manaswi Jadhav, Omkar Jadhav and Shlok Shetty won the First prize for the mini-project "Lab Management" in Track 4 of VNPS 2022.
- Insha Mulla was one of the 91 winners of Economic Times Campus Stars 5.0.
- 11 papers were published by students in different research journals and conferences.

Activities Conducted by the Department :

Sr. No.	Name of the Activity	Date
1	One day Workshop on "React: A project-based approach"	02/06/22
2	Guest Lecture on "Implementing Recommendation System Using Python"	19/04/22
3	Guest Lecture on "Emerging Trends in Wireless Technology"	18/04/22
4	Expert Lecture on "Python Programming"	11/04/22
5	Webinar on "Augmenting Non-functional Requirements of Project"	07/04/22
6	Expert Lecture on "Automata Theory"	07/03/22
7	Parent Meet (TE)	21/01/22
8	Seminar on "Career Guidance"	21/01/22
9	Hackathon'21	01 - 02/10/22
10	Guest Lecture on "DevOps and Advance DevOps Lab"	25/09/21
11	Guest Lecture on "Backend-Frontend Development"	22/09/21
12	Guest Lecture on "Latest Technologies in Network and Web Security"	18/9/21
13	Seminar on "Inner Engineering for Upcoming Engineers	03/09/21
14	Parent's Meet	03/09/21
15	Seminar on "Agile Methodology"	19/08/21
16	Seminar on "Gearing Up for Placements"	14/08/21
17	Seminar on "Hangout with Alumni (2021)"	14/08/21

Dr. Ashish V. Vanmali
HOD
Information Technology

DEPARTMENT OF CIVIL ENGINEERING

Dedicated to the objective of maintaining and nurturing the status of Civil Engineering, the department of Civil Engineering has worked hard throughout the year to make sure that the students achieve determined knowledge in the field along with their complete development. I am delighted to present the Annual Report of the Department of Civil Engineering for the academic year 2021-2022.

- **Site Visits**

1. Residential Building under Construction with 54 students on 12/04/2022
2. Bhabola Naka, Vasai to study structural reinforcement details with 57 students on 18/04/2021

- **GUEST LECTURE / WORKSHOPS ARRANGED**

Sr. No.	Date	Activity - Expert	Topic
1	14/10/2021	Dr. Vikas Balasaheb Varekar Asst. Prof. VJTI, Mumbai	Disposal of Solid Waste
2	29/04/2022	Mr. Mohd. Junaid Siddiqui Kalsekar Technical Campus, Panvel	Design of bridge deck slab and its application
3	19/04/2022	Shashikant M. Nagargoje - HOD-Civil, Jaihind College of Engineering, Pune	Design of RCC Beam by different methods
4	13/10/2021	Er. Sudhindra Nagraj - Exec. Consultant at Nagadi Consultants Pvt. Ltd.	Soil Investigation for Civil Engineering Project
5	24/09/21	Er. Ratnakar Chaudhary R. B. Chaudhary & Associates, Mumbai	Repair Implementation Process
6	23/03/2022	Mr. Parag Shinde - Technology Evangelist Rotor Precision Inst. Pvt. Ltd., Delhi NCR	Application of Drones GIS & Lidar Techniques in Const. Projects

FDP / STTP Conducted

Name of Faculty	Tital of Course	Date	No. of Participants
Mr. Jaydeep Chougale	FDP Orientation Programme on T.R.C.S. TE-Civil Sem-V (Rev 2019 'C' Scheme)	09/07/2021	22
Mr. Vikrant Kothari	STTP/ Workshop on Total Station	14/04/2021- 15/04/2021	107

STAFF ACHIEVEMENTS :

Awards / Recognition

1. Mr. Vikrant Kothari, Mr. Arbaaz Kazi & Mr. Jignesh Mistry successfully cleared IGBC AP Exam & are known Accredited professionals for IGBC

2. Mrs. Puja C. Kadam successfully completed Faculty Development Program on Green Buildings and Built Environment and has been awarded as IGBC Accredited Faculty

3. Mr. Viren Chandanshive and Mr. Vikrant Kothari have successfully completed all AICTE 8 modules of the National Initiative for Technical Teachers Training.

NPTEL Exam

1. Mr. Vikrant Kothari has passed two AICTE NPTEL FDP exams on Ground Improvement and Sustainable Transportation System.

Research Publication Details

1. Mr. Viren B. Chandanshive has published a paper entitled "Prediction of Building Construction cost using variable selection" in the NICMAR Journal of Construction Management.

2. Mr. Viren B. Chandanshive has published a paper entitled "Prediction of Building Construction Project cost using support vector machine" in Industrial Engineering and Strategical Management.

Seminars/Workshops/STTPs/Orientation Programs Attended :

1. Mr. Viren B. Chandanshive has participated in three workshops on "Breakthrough AI: Multidisciplinary Trends in Engineering and Research", "PBL Problem characteristics and influence on outcomes", and "CDIO-Conceive, Design, innovate and Operate" in Regional Research Symposium on PBL 2021.

2. Mr. Viren B. Chandanshive has participated in AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Project Management in Construction Technology".

3. Mr. Viren B. Chandanshive has participated in 5 days of FDP on "Futuristic Trends in Civil Engineering".

4. Mr. Viren B. Chandanshive has delivered an Expert talk on "Rate analysis in construction" at St. John College of Engineering & Management, Palghar.

5. Mr. Viren B. Chandanshive and Mr. Jaydeep Chougale have attended 2 days' Workshop Elsevier on "Improving Research & Performance Outcomes".

6. Mrs. Puja Kadam has attended two 5 days of ATAL FDP on Use of GIS & Remote Sensing in Agriculture and Natural Environment and ATAL FDP on Green Buildings and Built Environment

7. Mrs. Puja Kadam has undergone NITTT training and passed the exam on Module 5-Technology Enabled Learning and Lifelong

Self Learning and Module 8- Institutional Management & Administrative Procedures

8. Mr. Jaydeep Chougale, Mrs. Puja Kadam, Mr. Vikrant Kothari, and Mrs. Aishwarya Anil have attended Two days of National Workshop on Quantum GIS: Hands-on training by Pillai HOC College of Engineering.

9. Mrs. Aishwarya Anil has attended 1 week of FDP on Recent Trends in Concrete Technology and 1-week STTP on Recent Practices in Geotechnical and Transportation Engineering

10. Mrs. Aishwarya Anil has attended two 5 days of ATAL FDP on Innovative Contactless Investigation Techniques in Civil Engineering and Strategic Civil Infrastructure-Geotechnics for Infrastructure Projects

11. Mr.Jaydeep Chougale and Mrs. Aishwarya Anil have attended 1-week AICTE/ISTE orientation/refresher program on Recent advancements in Environmental and Water Resources Engineering at Anjuman -I-Islams Kalsekar Technical Campus, Navi Mumbai.

12. Mr. Jaydeep Chougale has attended a 1-week short-term training program (STTP) on "Soil Exploration, Investigation, Characterization and Ground Improvement" at Universal College of Engg. Vasai in Association with The Institution of Engineers (India).

13. Mr. Vikrant Kothari has attended 2 (two) 5 days of ATAL FDP on augmented reality and virtual reality in pioneering application domains and on Global Navigation Satellite Systems

14. Mr. Vikrant Kothari has attended 5 days training program on Green Building.

15. Mr. Vikrant Kothari has attended 5 days Virtual International Workshop on Recent Advancement and Emerging Economic Aspect of Transportation Geotechnology, by NIT Agartala.

16. Mr. Vikrant Kothari has attended 3 Days Online Training Programme on "Pavement Evaluation Techniques and their applications for Maintenance and Rehabilitation, organised by CRRI, New-Delhi

17. Mr. Arbaz Kazi has attended 5 days FDP on Fundamentals of geotechnical and Structural Engineering for Sustainable Infrastructural Development.

RESULTS

B. E. Civil (SEM VIII 2021) Overall Result : 100 %

Mehta Darshan (Rank 1 - 9.91)

Jivani Yash (Rank 2 - 9.81) and

Marwaha Gurpreet Singh (Rank 3 - 9.76)

T. E. Civil (SEM VI 2021) Overall Result : 100 %

Alave Gauravi and

Naik Mithil - (Rank 1 - 9.96)

Singh Aryan
Vyas Yagnesh and
Bavdane Ashish - (Rank 2 - 9.92)

Govalkar Saheel
Patil Shriraj
Nikam Mandar
Sneha Shinde and
Ghorai Piya - (Rank 3 - 9.85)

S. E. Civil (SEM IV 2021) Overall Result : 100 %

Sankhe Manali (Rank 1 - 9.83)
Ansari Mohammed Faraz (Rank 2 - 9.73) and
Raut Amogh (Rank 3 - 9.67)

GATE Qualified Students

Manthan Sutrave (Score: 31.31)
Anand Nair (Score: 27.64) and
Amogh Raut ES Score: 23.67 and
CE Score: 29.05)

PLACEMENTS

14 students of department of Civil Engineering have been placed and many are still in process through Campus placements in companies including RDC Concrete India Pvt. Ltd. Larsen & Toubro Infotech Ltd. Wipro, TCS , Infosys , Best Geotechnics Pvt Ltd, Suraksha Smart City Project Ltd, Suraksha Smart City Project Ltd , SCG Design Solutions.

EXTRACURRICULAR ACHIEVEMENTS (OUTSIDE COLLEGE)

1. Guaravi Alave secured 1st prize in Ryla (Art) in Nirmittee 2022 arranged by MIT, Pune

I appreciate the dedication of each member of the Civil Engineering Department for his/her continuous sincere efforts which has helped the Civil Engineering Department to Excel.

Lastly, we are thankful to the trustee and the members of the Managing Committee for their continued guidance and inspiration.

Dr. Ajay Radke
HOD
Department of Civil Engineering

DEPARTMENT OF FIRST YEAR ENGINEERING

It gives me immense pleasure and satisfaction to present the report of the activities in First Year Engineering Department for the academic year 2021-22

FIRST - YEAR ENGINEERING DEPARTMENT

When aspiring engineers enter Vidyavardhini's College of Engineering & Technology, they are welcomed by the First Year Engineering Department. The main objective of the Department is to build a strong foundation of all the different branches of the engineering courses. Under the expert guidance, support, and sincere efforts of Faculty members the students can complete their four years tenure of the engineering course and become proud engineers of the Institute ready to reach the pinnacle of success.

The faculty members of the department provide them knowledge of Applied Mathematics, Applied Physics, Applied Chemistry and Communication Skills. The department aims at conducting refresher/ orientation courses, Counselling sessions, seminars on different topics, and organizing several curricular and extra - curricular activities for the First year engineering students.

DEPARTMENTAL EVENTS

FE Orientation Program

Students are invited on their first day of college life with their Parents for the orientation program. Principal, Deans, HOD's and FE coordinator brief them about the Infrastructural facilities and activities carried out. Also, they are made aware of various co-curricular, and extracurricular events organized throughout the year. Further the curriculum with credit points and examination scheme is also discussed.

FE Induction program

A Three-week induction program for the First Year Students in line with the AICTE is organised every year to help students to understand the new environment, acquaint with faculty members and students of the other departments, and to begin their journey of being a degree holder with confidence, dedication as well as determination. They feel a special bond with the Institute that enables them to get settled soon. They are informed about their meeting with industry experts, to interact with them, and realize the various requirements of industries together with the importance of campus Placement.

The students are introduced to Sports facilities, sports committee. Also, they are exposed to various events conducted by Students Council committee. They are informed about the ethos of NSS committee and the various activities such as Fit India, Cycling, Beach cleaning and Blood Donation Camp.

In the previous year, a total of 400 students participated in this program which was

conducted from 13th December - 1st July 2022 & then it continued throughout the semester. Faculty and student mentors worked extensively to ensure that the induction was well organised.

Faculty Achievements :

- **Courses Attended :**

– Mrs. Chandrakishori Sonarkar attended 12-week NPTEL (SWAYAM) Online course on "Concepts of chemistry for engineering" during 25th July 2022-1st October 2022

– Mrs. Beauty Varma attended 12-week NPTEL (SWAYAM) Online course on "Concepts of chemistry for engineering" during 25th July 2022-1st October 2022

– Mrs. Praiza Gonsalves attended 8-week NPTEL (SWAYAM) Online course on "Introduction to Abstract Group Theory" during 25th July 2022-25th September 2022

- **FDP/STTP attended/ Organised :**

– All faculties have attended One week ISTE approved SF-STTP/FDP Program on; Reforms and Innovations in Examination System" held during 08/07/2022 to 13/07/2022 organised by Dept of Computer Engineering, Department of Mechanical Engineering and Internal Quality Assurance Cell (IQAC) of Vidyavardhini's College of Engineering and Techology, Vasai - West, Palghar.

- **Mrs. Chandrakishori Sonarkar**
- Attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organised by All India Council for Technical Education (AICTE) from 21st June 2021 to 25th June 2021.
- Attended and successfully completed 3 days FDP on "Health Management Through Yoga" organised by Department of First Year Engineering, LTCE, from 12th Oct. to 14th Oct 2021.
- Attended and successfully completed 1 week FDP "Applied Chemistry : A Catalyst for Scientific Transformation" organised by the Lavoisier's Association, Department of Chemistry, Faculty of Science, SGT University during 23-28 August, 2021.
- Attended and successfully completed Three Days Online Faculty Development Programme on "Recent Advancement in Nanomaterial and Green Technology for Sustainable Engineering" held during 6th October 2021 to 8th October 2021.
- Attended and successfully completed Two Week Short Term Training Programme through ICT Mode Advanced Pedagogy organized by NATIONAL INSTITUTE OF TECHNICAL TEACHER'S TRAINING AND RESEARCH (NITTR), KOLKATTA Institute from 13th June to 24th June, 2022.
- Attended and successfully completed One Week Online Capacity Building Workshop on Education 4.0 : Tools for Effective NEP 2020 Implementation, conducted during 27 June to 02 July, 2022.
- Attended and successfully completed 3 days National Level "Online Faculty Develo-

pment Program" on "Conservation of Natural Resources" conducted from 16th to 18th February 2022

- **Mrs. Beauty Varma**

- Attended and successfully completed 3 days FDP on "Health Management Through Yoga" organized by Department of First Year Engineering, LTCE, from 12th Oct-14 th Oct. 21

- Attended and successfully completed 3 days National Level "Online Faculty Development Programme" on "Conservation of Natural Resources" conducted from 16th to 18th February 2022

- Attended and successfully completed 5 days online workshop on "Environment, Energy, Health-current Research & Social Responsibilities" conducted from 25-29th April 2022

- Attended and successfully completed Two Week Short Term Training Program through ICT Mode Advanced Pedagogy organized by NATIONAL INSTITUTE OF TECHNICAL TEACHER'S TRAINING AND RESEARCH(NITTR), KOLKATTA Institute from 13th June to 24th June, 2022.

- Attended and successfully completed One Week Online Capacity Building Workshop on Education 4.0: Tools for Effective NEP 2020 Implementation, conducted during 27 June to 02 July, 2022.

- **Dr. Pradip Gulbhile**

- Attended and successfully completed 5 day STTP program on "Emotional Intelligence" held during 7th February 2022 to 11th February 22 organized by NITTR Bhopal.

- Attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 5th June 2022 to 10th June 2022.

- Ms. Kamini More had attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 5th June 2022 to 10th June 2022.

- Ms. Shobhana S Shirsat attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 5th June 2022 to 10th June 2022.

Mrs. Praiza Gonsalves

- Attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) from 08 July, 2021 to 12 July, 2021.

- Attended and successfully completed One Week Online Capacity Building Workshop on Education 4.0 : Tools for Effective NEP 2020 Implementation, conducted during 27 June to 02 July, 2022.

- Attended and successfully completed One Week Short Term Training Programme on "Online Pedagogy" organised by NATIONAL INSTITUTE OF TECHNICAL

TEACHER'S TRAINING AND RESEARCH (NITTR), KOLKATTA Institute from 03rd January to 07th January, 2022.

- **Mr. Ganesh Tilave**

- Attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 26th July, 2021 to 30th July, 2021.

- Attended and successfully completed One Week Online Capacity Building Workshop on Education 4.0: Tools for Effective NEP 2020 Implementation conducted during 27 June to 02 July, 2022.

- Mrs. Rachel Periera attended and successfully completed 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 26th July, 2021 to 30th July, 2021.

Top Rankers

Bhandigare Nishant (Comps.) - 9.90
Sawant Laxman (CSE-DS) - 9.90.
Gharat Swara (Comps.) - 9.85
Dahanukar Soham (AI) - 9.75

Dr. Sunayana Jadhav
HOD., FE.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (DATA SCIENCE)

It gives me immense pleasure and satisfaction to present the report of activities in CSE DS department for the academic year 2021-22.

Faculty Activities :

STTP :

AICTE-ISTE approved One Week Short Term Training Program including the IEEE as the Professional Body Associated on Artificial Intelligence Of Smart System And Recent Tools For Integration Of Smart System was conducted from 6th June 2022 to 8th July 2022.

Highlights of Programme:

- Recent tools for Integration of Smart Systems
- Artificial Intelligence towards data science applications
- Basic and Advance AI

Name of Faculty	Title of Course
Maya Varghese Chakkedath	Recent tools for integration of Smart Systems
Maya Varghese Chakkedath	Artificial Intelligence towards data science applications
Carmelita Dabre	Recent tools for Integration of Smart Systems
Carmelita Dabre	Artificial Intelligence towards data science applications

Student Achievement:

Toppers of 21-22:

Name	CGPI	Rank
Shukla Abhay Devnath	9.79	1
Kalathiya Deven Gunvanthbhai	9.08	2
Berde Jayesh Sunil	9.00	3

ZEAL'22 Cultural Achievements:

Name of the Student	Event	Position
Janvi Chavan	Table Tennis	Runner up
Prathamesh Thakre	Chess	Runner up
Deven Kalathiya	Chess	Runner up
Kaustubh Gawade	Chess	Runner up
Chetana Manjarekar	Chess	Runner up

CSI Activities :

Name of the Student	Participated
Harshkumar Devmurari	VCET Hackathon'21
Aditya Joshi	VCET Hackathon'21
Prathmesh Thakare	VCET Hackathon'21
Preet Raut	VCET Hackathon'21
Harshkumar Devmurari	Code Odessey
Aditya Joshi	Code Odessey
Harshkumar Devmurari	Google Hash Code
Aditya Joshi	Google Hash Code
Harshkumar Devmurari	Code-a-thon
Manv Kawale	Code-a-thon
Prathmesh Thakare	Unscipt - Rookies

Sports / Cultural Achievements :

Name	Event	Position
Aditya Joshi	Extempore	Winner
Aditya Joshi	VNPS	Management

NSS Activities :

Name of the Activity	
Tree Plantation	Unity Day
World Tribal Day	Vigilance Awareness
Rashtriya Gaan	Beach Cleaning
Kalasparsha	Constitution Day
Gandhi Jayanti Event	Plastic Survey
Fit India Movement	FE Orientation
Rider Safety Training	Shivaji Jayanti
National Youth Day	Inter. Women's Day
National Girl Child Day	Mega Donation
Raise Your Voice	Sadak Suraksha Motorcycle Rally

Internship Record :

Name of the Student	Name of the Company	Location of Internship
Prajjwal Vishwakarma	MMRDA	VCET
Aditya Joshi	MMRDA	VCET
Aditya Joshi	KPMG AU	Virtual
Tanvi Patil	MyCaptain	Virtual
Tanvi Patil	LGMVIP	Virtual
Tanvi Patil	TSP	Virtual
Tanvi Patil	LGMVIP	Virtual
Vedantika Ghorpade	Oasis Infobyte	Virtual
Manav Kawale	Industry Insti. Interaction Cell of VCET	Virtual
Manav Kawale	Rancike Learning	Virtual

Extra Curricular Activities :

Name of Student	Name of Award	Type	Position
Aditya Joshi	Extempore	Management	Winner
Aditya Joshi	VNPS	Management	-
Vedantika Ghorpade	E-Cell	Delegate	Participation
Vedantika Ghorpade	Literati	Management	-
Tejas Wani	SUVC	Autonomous Solar Electric Vehicle	First Runner up
Aman Mishra	SUVC	Autonomous Solar Electric Vehicle	First Runner up
Aayush Jha	SUVC	Autonomous Solar Electric Vehicle	First Runner up

Dr. Thaksen Parvat
Co-ordinator

DEPARTMENT OF AI & DS

I am honoured and delighted to offer the annual report of activities of the department of artificial intel-ligence and data science for the academic year 2021-2022. This department was first introduced during the pandemic, which took place in the year 2020. It hosted all of its lectures and events online. In many different aspects, this year, both the faculty and the students have excelled.

The report that follows provides a summary of the department's significant activities from the academic year 2021-2022.

FACULTY ACHIEVEMENTS / ACTIVITIES :

Conference / Journal Publications

• Prof. Bhavika Gharat's paper "Performance analysis of data mining algorithm for voice emotion recognition" presented/published in International Conference on Emerging Trends in Technology Science & Education (ICETTSE-2022), January 2022.

• Prof. Bhavika Gharat's paper "Performance analysis of voice recognition by using Feature Extraction and Gaussian Mixture Model" is published in Journal of Applied Science and Computations, Vol. 9, Issue 4, April 2022

FDP / Workshops / Trainings attended :

• Prof. Sejal D'mello attended FDP on Building efficiencies in software project management by integrating DEVOPS tools organized by Thadomal Sahani College of Engineering

• Prof. Bhavika Gharat attended FDP on Recent trends in Data Analysis in R organized by REST Society for Research International (RSRI).

Student Achievements :

• Mr. Hirenkumar Vyas was declared winner in Solar Electric Vehicle Challenge

• Mr. Hirenkumar Vyas and Mr. Naveen Arora was declared runner-up in Surya Urja Vehicle Challenge

• Mr. Yash Patil attended webinar on Data Science & its Applications organised by BVICAM, New Delhi

• Mr. Anuj Mishra was selected for Pre-quarter Finals of Wipro earthian Sustainability Quiz, 7th Edition

• Mr. Vivek Prajapati won First Prize in Duet Singing at Intercollegiate competition (AURA 2021) Ghansyamdas Jalan College of Science and Commerce , Malad East.

ZEAL 2021 Achievements :

• Mr. Vivek Prajapati Won First Prize in Solo Singing

Sr. No.	Name	Year	Achievment
1	Omkar Bhikle	FE	Runnerup in Rink Football of annual sport fest Avahan
2	Shubham Jangid	FE	Runnerup in Rink Football of annual sport fest Avahan
3	Raghuvendra Devidya	FE	Runnerup in Rink Football of annual sport fest Avahan
4	Kunal Poojary	FE	Runnerup in Rink Football of annual sport fest Avahan
5	Reena Vaidya	SE	Winner in Tug of War of annual sport fest Avahan
6	Devashree Pawar	SE	Winner in Tug of War of annual sport fest Avahan
7	Shikha Chaudhary	SE	Winner in Tug of War of annual sport fest Avahan
8	Sakshi Mhatre	SE	Winner in Tug of War of annual sport fest Avahan
9	Deepali Kothari	SE	Winner in Tug of War of annual sport fest Avahan
10	Khushi Tiwari	SE	Winner in Tug of War of annual sport fest Avahan
11	Karan Patra	SE	Winner in Chess Tourna-ment of a annual sport fest Avahan
12	Chetan Jawale	SE	Completion of the Elite Run category of 21km Virtual Marathon organised by Vcet Sports comm.
13	Chetan Jawale	SE	Completion of the Elite Run category of 11km Virtual Marathon organ-ised by Vcet Sports committee
14	Chetan Jawale	SE	Completion of the Fun Run category of 5km Virtual Marathon organ-ised by Vcet Sports committee
15	Chetan Jawale	SE	Completion of the Fun Run category of 3km Virtual Marathon organ-ised by Vcet Sports committee

Academic Results :

1. Amrita Nair - 9.33
2. Devashree Pawar - 9.04
3. Divyah Mandavia - 8.58

Dr. Thaksen Parvat
Co-ordinator

LITERATI - THE LITERARY CLUB

Literati - The Literary club of VCET takes responsibility to spread fun knowledge about literature, art, and creativity. Its main objectives are to enhance the literary skills of students and bring like-minded students together. Initially known as the magazine committee, and now renamed as Literati, has gone on to bring lots of positive changes in the committee for the development of literature.

The academic year 2021-22 started with recruiting passionate Literatis of our college due to whom the events were planned and executed successfully.

FE Orientation : The FE orientation program was the very first activity planned for this AY. This was an online activity which was conducted via. "Google meet" and students from all 8 departments participated enthusiastically.

Kavi Sammelan 2021 : The next event which is also our flagship event was Kavi Sammelan. This event was fruitful due to the presence of experienced juries and participation of not just students but faculty members as well. Kavi Sammelan is conducted in 2 different languages viz. Hindi and Marathi. Marathi and Hindi Kavi Sammelan are two poetry recitation competitions hosted consecutively. The competition brings out some of the finest poets in the college and their creations are music to ears. Due to the effects of Covid-19 outbreak, the event was conducted in an online mode.

Marathi Bhasha Diwas : It was the 1st offline event of VCET as well as Literati Club for this particular academic year. The ground floor seminar hall was full of joyous participation and each department participated with zeal. There were staff performances, student performances and various fun games. The theme for MBD was "Festivals" where each department dressed themselves in an attire which displayed a particular festival. The event concluded with announcing the winner and runner-up

International Mother Language Day : A new activity was organized by the creative members of the club to make people realize the importance of their mother languages. The event was conducted in an online mode with various sub-activities like calligraphy, poster making, essay writing, shayari recitation and paragraph conversion.

LitFest'22 : Faceoff 9.0, Writing prompt, Dialogue writing, Unscripted - The Extempore competition are some of the pack of events filled with glee and joyous which are held in 'LitFest'.This year, we introduced 2 more events i.e. Spelling bee

and Love letter writing. The entire festival was as lit as the name is and it resulted in a total of over 150+ participants.

Vista'22 : The creative stroke reached its zenith in the form of 'Vista', the "Annual college magazine" which is the proud creation of our club. It features outstanding works of literature from amateur readers,writers, and poets of our college. The theme for Vista'22 is "Atraaf - Giving life a new direction".

Asynchronous activities : Asynchronously, the club also started certain initiatives on instagram handle (@literativcet). These asynchronous learning activities were "Word of the day" and "Aajcha Shabd" respectively. Where new words in English and Marathi languages were introduced daily to improve the vocabulary and speaking skills of VCETians.

Our Mantra - "To promote literature and grow as aspiring empathic leaders that helps others to develop leadership skills and other soft skills among themselves."

Ms. Swati Varma
Literati Club

STUDENTS' COUNCIL

Cultural awareness and participation play an integral role in a student's education. The college provides a platform for all that. This is where the Students' Council comes into picture. It looks out for all the student-oriented activities which aim at the cultural aspect. Student's Council is the largest student body of the college, and it takes pride in sharing the memories it made this year.

The year started with showing gratitude towards our beloved teachers. 5th September marks the Birth anniversary of our former President and teacher Dr. Sarvepalli Radhakrishnan. On this occasion the Students' Council hosted Teacher's Day celebration. This year to express our gratitude to our beloved teachers, we created a short video which consisted of various alumni thanking the teaching and non-teaching staff. The students thanked all the teachers for their guidance and support throughout their academic years and beyond. All the teaching Faculties and non-teaching staff were sent a personalized email with a card attached.

To welcome the fresh faces of the year, an Orientation was organized for the first-year students. They were told about different committees and teams they can

join according to their interest to enhance their skills. The freshers were informed about the events that the Students Council hosts, like the annual cultural fest Zeal, Teacher's Day, Fresher's party and BE farewell. An informal session was held by the Final year students at the end to clear all their doubts and gave them a few tips and tricks to tackle the four years of engineering.

This year's Zeal 2022 celebrated the Art of Imperfections. It teaches us to focus on the present and enjoy each moment that life brings us. Zeal- Meraki; The Art of Imperfection was held on 25th, 26th, and 27th of March 2022. This was more than a perfect way to rekindle the spark among students and let their excitement and creativity paint the town. With everything back to normalcy, it was about time the original freshness of Zeal was experienced. From having fun offline events like Dumb Charades, Antakshari, Masterchef and so on, to live performances like Solo dance, singing and group dance, to grooving to the beats of music in DJ night and Garba Night. The Students' Council takes immense pride in rejuvenating the long-lost desire of a Cultural Fest and giving everyone a great time.

To give a proper send-off to all the final year students, a BE farewell party was arranged by the Students' Council. The final year students were felicitated for their immense efforts, dedication towards various committees and also for their outstanding achievements throughout the academics. Various frolicking games and activities were also arranged where everyone participated enthusiastically. To make the evening more memorable, students performed dances and sang melodiously. Everyone danced their hearts out together on the beats of the DJ. As it all came to an end, not a single eye was dry as everyone cherished the memories and friendships they lived throughout their four years of engineering.

No great success can be achieved without a great team and so we appreciate the entire team of Students' Council for their tireless efforts. The Students' Council hopes to do bigger and better events in the upcoming year provided the support of fellow students and staff, Thank You!

Dr. Sunayana Jadhav
Students' Council Incharge

SPORTS COMMITTEE

VCET Sports Committee is a student community consisting of more than 90 members dedicated to the development of sports. Our main aim is to provide the students with the means and environment to pursue their sporting passions. Throughout the year we organize various events such as FE Orientation, and the AVAHAN-annual sports festival and also control the functioning of college sports teams. We believe the journey is more beautiful than the destination.

AVAHAN :

It gives me great honour and pride to share my journey as the In-charge of the Sports Committee. Sports are a crucial part of everyone's life for the growth, development of mental health, and physical fitness of the body. So, coming to the annual sports festival AVAHAN, which is an inter-college youth event, engulfed in sportsmanship, enthusiasm, and determination. AVAHAN is conducted every year, where we aim at culminating our sports celebration, with a grandeur of enthusiasm and thrill, and participants show their skills by performing various strategies.

In the odd semester, FE Orientation program is organized where a brief idea is given to them regarding the sports committee and their work along with an informal conversation to make students get familiar with their seniors and to get a proper idea about the college events and the working of the college. The grand annual sports festival AVAHAN is organized by VCET Sports Committee on intra as well as inter-college levels where many students participate with great enthusiasm.

The Sports Committee organised the team selection for various sports such as Overarm Cricket, Football, Basketball, Volleyball, and Badminton. The selected students trained hard in their respective schedules allotted by the committee to participate in various inter-college sports festivals representing our college.

AVAHAN'22 commenced with the grand inauguration ceremony which was held on the ground of VCET. The inauguration ceremony was enlightened by the presence of chief guests Mr. Rakesh D. Save (Executive committee member - Maharashtra Athletics Association) and Mr. Akshay Vernekar. The honorable chief guest, Mr. Akshay Vernekar encouraged everybody to stay fit and embarked on his wisdom to help students understand the role of sports in the life of a student.

Due to the prolonging restrictions of Covid 19, the event was held on an Intra level for three days. A wave of joy and excitement sparked among the students of VCET. The event being held intra-level also sparked a sense of competitiveness amongst the

students for departmental competitions. Student testimonials of AVAHAN 2022 returning to them in the offline mode was overwhelming which drove the VCET Sports committee to work and make the event a grand success. AVAHAN - 'A call to champions' is not just an event but it's beyond that for everyone. The whole aim of AVAHAN is to inculcate a sense of teamwork, sportsmanship, and respect among the students.

The AVAHAN 2022 was concluded on a very different note with a farrago of emotions amongst the students as AVAHAN 2022 being the key binding the students after two years of social distancing. The committee has always worked with their hearts and soul and shall continue to do so in the coming years.

The event wouldn't have been seized without the support of our respectful management and honorable principal, Dr. Harish Vankudre. I also extend my heartfelt gratitude to all teaching and non-teaching staff and admin staff for their support throughout the year. The committee has always worked with their hearts and soul and shall continue to do so in the coming years. I congratulate the entire sports Committee team for the successful conduction of AVAHAN'22 and wish the Sports committee for a more successful event next year.

To encapsulate it all, AVAHAN 2022, was a grand success. As we rebuild the legacy of this sacred event in this new normal. Student testimonials described this one to be the key to sparking the thrill back again in the college atmosphere.

Ms. Neha Gharat
Sports In-Charge

MECH-EXPO

INTRODUCTION

MECH-EXPO 2022

Mech-Expo is a technical exhibitory event conducted by the Mechanical Engineering Department of Vidyavardhini's College of Engineering & Technology. It is one of the most informative event conducted in VCET which is received with great deal of enthusiasm and engagement by the students as well as faculty. Machinery, tools, fasteners, different machine components and associated products are all showcased to provide a greater insight into the actual industry standard products and their working. Such exposure enhances and refines the overall understanding of students and increases their inquisitiveness to emerging technology in the field of engineering.

Report on the event MECH-EXPO A National Level Product Showcase Date : 23rd September 2022

Venue : Vidyavardhini's College of Engineering & Technology

Chief Guest : Mr. Chaitanya Mestry, Mr. Rachit Shah & Mr. Prasun Basu

The Department of Mechanical Engineering in association with VMEA and ISHRAE organized a national level product showcase MECH-EXPO. The event was conducted on 23rd September 2022 from 10:00 AM to 5:00 PM. The event started at around 10:00 AM when Mr. Tathansh Joshi the secretary of VMEA committee, our anchor for the event, welcomed our Head of Department Dr. Uday Aswalekar, all of our faculty members and our chief guests. This was followed by small speeches from each of our chief guests as well as the president of both the committees.

Inauguration ceremony of Product Showcase Students Presenting the Products.

The Theme of MECH EXPO 2019 was particularly eye-catching as it was on "Make in India".The theme showcased the progress made by India in various fields as well as to give tribute to the Indian Navy Force and the Indian Air Force. In product showcase various industries participated and showcased various products from BIONIC ARM, EOT Component, punches & dies, stem boilers model, Injection Moulding parts, Tractor components, Fasteners, Automobile components, Springs, Energy Auditing equipment. Out of all the products showcased in the event there were two major products that grabbed all the attention. One of those was the Bionic Arm showcased by the startup, RoboBionics. This Bionic arm showcased an underactuated design for the use of people with amputations below the elbow. The other one being the Ganpati Idol showcased by the company "Probotix". This Idol combined various Mechatronic and Animatronic aspects and was able to express emotions by eyes and head movements. Alongside the product of college official solar car and F1 racing team Solecthon and Team Ethan, quad bike Team Centurion and drone of team Airnova was showcased. The event was covered by Lokmat. Various industrialists, professors, students of nearby school and colleges also visited MECH EXPO. Students were very excited to see the product showcase and the feedback from the students as well as the industrialists was great and through these events they were able to gain a great deal of knowledge.

VCET ETHAN RACING TEAM

About the team

Team Ethan Racing Electric comprises a team of engineers who seek to enhance the learning experience of the student community at prestigious Vidyavardhini's College Engineering and Technology by implementation of engineering fundamentals within the context of building VCET's own Formula-Style Car.

We aim high as we approach toward our future goals which would be to make a significant mark as a team in the world of Formula Student Racing. We wish to establish a network among Indian teams, so that coherently we could impact strongly in Motorsports.

The team was established in the year 2014, and has been manufacturing cars every year to participate in the National Level Formula Bharat competition. In the year 2021, the team decided to shift to "Electric vehicle" category. A prototype for the electric powertrain was designed for the design event "FSEV-2021" and the team will be participating in Formula Bharat 2023.

FSEV 2021

- The purpose of the Annual FSEV Concept Challenge (FSEV 2021) is to provide teams with an opportunity to conceptualize and design a Formula Student Electric Vehicle Powertrain Package which meets the Formula Bharat 2022 Rules booklet technical guidelines. Students prepare documents / presentations for the following categories involved in the challenge:

- FMEA Report
- Procurement Strategy Report
- Team Management Report
- Software Integration Report
- Design Specifications Sheet Report (DSS)
- Engineering Design Presentation (EDP)

With feedback from this event, changes were made in design of the electric powertrain. This design was built for prototype testing and finalised. Formula Bharat 2023 will be the team's first offline event after lockdown and with an electric vehicle. We plan to secure a good rank in this event and in future participate at Formula Student competitions across the globe.

Team achievements

2018 was teams most successful year to date with overall rank of 22nd out of 110 registrations. Team Ethan racing had an amazing performance at Formula Bharat 2019, Coimbatore. Securing a rank of 24th from 120+ registered teams from all engineering institutions over the country, 4th amongst engineering colleges in Mumbai Suburbs, achieving its highest ever score in Engineering Design Event ever. Team stands motivated and ready to take on new challenges.

ISHRAE

ISHRAE VCET Students Chapter carried the following activities in the year 2021-22. **National Student Design Competition (NSDC)** for 2021-22 for ISHRAE student members. Two teams had participated in the event. Team-1 includes Mr. Shridhar Kashalkar, Mr. Varad Takke, Ms. Riya Patil, Mr. Suyash Hoskote and Team -2 includes Mr. Saleel Churi, Mr. Girish Rokade, Mr. Chintan Patel, and Mr. Yash Shikhare. Design Theme: Design of Air Conditioning and ventilation system for a multi specially hospital building that pertains to comfort cooling, ventilation, and indoor air quality. Important dates for the events were as followed, Date of Registration, 31/08/2021 and Submission of design date was 31/12/2021, Design presentation at zonal level was conducted at 29/01/2022. followed by design presentation for nation level at 05/02/2022.

The **HVAC & R HACKATHON** can be used for job/recruitment fairs and allow the students to access their abilities and find way to accomplish the tasks and how they work in a team. A novel method to enhance the image of ISHRAE and get into the innovative, tech-savvy, technology- minded people in this area. One team includes Mr. Girish Rokade, Mr. Harsh Sambare, Mr. Chintan Patel and Mr. Yash Shikhare had participated in this event. Submission of the primary concept and abstract was on 31st Aug'2021. Presentation at Zonal Level was held at 15th Nov. 2021 and final submission was 22nd Feb' 2022.

The ISHRAE Mumbai Chapter (IMC) had scheduled the **ISHRAE VCET Student Chapter Installation Ceremony** on 21st Jan 2022 at 11:30 am to 12:30pm (online mode). The installation ceremony was arranged to mark the official establishment of VCET's ISHRAE VCET student chapter for year 2021-22. With the guidance and efforts of Mr. Vinay Patel, Faculty In charge of ISHRAE-VCET Student Chapter, the guests from IMC office bearers Mr. Amod Dixit, President - IMC, Mr. Mukesh Suthar- Program Chair-IMC, Mr. Sanjay Varma, Zonal Chair, SA-West, Mr. Vivek Marde, Student Activity Chair, IMC, were invited for the event. Also, the faculty members from the Mechanical Engineering Department were attended the installation ceremony.

The **VCET'S National Level Project Showcase (VNPS'2022),** held on 13th April'2022 is an interlevel departmental project showcase competition where second, third and final year students showcase their mini and major projects. These projects are judged by industrial experts and winners are awarded with prizes.

I would like to thank Dr. Uday Aswalekar, (HOD, Mech. Engg.) and Mr. Vinay Patel, Faculty In charge of ISHRAE VCET Students Chapter for giving us this opportunity and guiding us throughout this year. I would also like to thank each and every student member of the ISHRAE committee for their hard work and participation in making this a successful year. Thank you.

TEAM CENTURIONS

ABOUT TEAM

Team centurions is one of the seasoned teams of VCET involved in the design and manufacturing of an ATV quad bike. For the past 6 years, the team has been producing vehicles that personify power and agility simultaneously. Enthusiastic students from different branch who strives to uphold hard work, dedication, and teamwork to help solve the various problems and learn through them during design, manufacturing, testing and presentation. Thus the team provides a suitable and rich environment for the members to help each other to grow and develop as an engineer.

Team Vision :

To provide a platform to budding auto-mobile enthusiasts to showcase technical and professional skill at international competitions.

Team Mission :

- To continuously improve design that personifies power and agility.
- To test our mettle in various national level events.
- To continously upgrade from the mistakes and make contingency plan for the next event.

Team Objectives :

- To fabricate the vehicle in the most possible economic manner.
- To understand the variance in theoretical and practical knowledge and its implementation in actual practice.
- To design a safe, functional and value-added vehicle each year.

Team Structure :

Team Captain - Mrudul Dalvi
Faculty In-Charge - Mr. Sanjay Lohar
Vice-Captain - Gautam Darji

About Competition :

Quad Bike Design Challenge (QBDC) organised by Fraternity of Mechanical and Auto-mobile Engineers (FMAE) and quad torc organized by Indian Society of New Era Engineers (ISNEE) are student level off road ATV bike design challenge. This challenging events are where all the participating teams should have knowledge and exposure on designing and fabricating an ATV. They have a thick technical team comprising of 25 technical experts from various reputed industries throughout the nation. The event saw around 5000 engineers including various officials from leading Indian mechanical manufacturing industries from various parts of the country.

Team Centurians 1.0	Team Centurians 2.0	Team Centurians 3.0	Team Centurians 4.0	Team Centurians 5.0
Quad torc 2016	QBDC 2018	QBDC 2020	QBDC 2021 (Virtual)	Quadtorc 2022
8th overall in preliminary design report (AIR)	4th in sales presentation 11th overall (Air)	3rd in sales presentation 5th in endurance 11th overall (AIR)	AIR 5th overall position	AIR 8th overall position AIR 4th in Sales presentation

VCET SOLECTHON

A Step Towards Sustainability..

The team was established on 19th September 2017 by our respected seniors Mitesh Sawant and Mahendra Solanki with the motto of taking "A step towards sustainability". With just 18 automobile enthusiasts in the beginning i.e season 1.0 backed by Prof. Swapnil Mane our Faculty Advisor and now by Prof. Dipak Choudhari who supported our vision and took efforts for betterment of the team.

2021-22 has been a remarkable year for the team with a victorious title of "OVERALL RUNNER UP" for the event SUVC (Solar Urja Vehicle Challenge)

Events in year 2021-2022 :

After securing 1st rank in the National Solar Vehicle Challenge 2022 team's further motivation is to participate in ESVC 3000+. For ESVC 3000+, the team decided to switch from 3 wheel to 4 wheel Driverless Solar Electric Vehicle, a whole new design with a closed cockpit and all new thrilling features. Due to Covid'19 most of the team meetings were held online and work from home was the only option we were left with. Even after all the restrictions due to Covid'19 and resource constraints, the team didn't halt its work. Beginning with research, then the designing phase and then the manufacturing, with lots of iteration and analysis of self-designed components simultaneously the finance planning started. A budget is allotted to each sub-system, according to its requirement. The team began looking out for sponsorship which would raise the required funds. It was quite difficult for the team to gather such a large amount from sponsors in this period where industries were affected the most, but even in this situation the team managed to get sponsors onboard. Testing of the vehicle was being done for preparation for ESVC 3000+(A rally from Gorakhpur to Jaipur) on the roads of Vasai. A recruitment drive for FE's and SE's was held and students were recruited in the team in the month of March which was followed by participating in Bizmaster (A Business Plan competition). In the month of November 2021 the team decided to participate in SUVC (Saur Urja Vehicle Challenge) with the vehicle 3.0 . By the end of the year 2021 the team was invested in preparation and submission of Virtual and OVPR rounds. Even though the March'21 recruits were new to the concept of working in a team they had a significant contribution in SUVC. The team members worked all day and awake each night for the timely submission of reports and video presentation for the OVPR round of SUVC. Along there were some major changes in the dynamics of the team. The very important pillars of the team Captain and Vice-Captain positions were handed over from Rithwik Vedpathak and Sanket Suhagiya to Manisha Kushwaha and Aditya Patil.

The year 2022 started with the announcement of the recruitment drive of the team for FE's and Se's of all the disciplines. Students were recruited according to their inputs in the task allotted in their choice of subsystem and their willingness to be a part of the team. Parallelly with the recruitment process OVPR round preparations and submissions were still going on. After the completion of OVPR round, the team was warming up for the rule book test and virtual round. Various mocks rule book tests were conducted and at the same time the team was gearing up for the Virtual Presentation. Team was all set for the rulebook test and Virtual round presentation, conducted on two consecutive days i.e 19th February 2022 and 20th February 2022. The SEVC event was concluded with members eagerly waiting for the result and finally the day arrived on 6th March 2022 results were declared, us winning OVERALL RUNNER UP title. Though the dynamic round of SUVC was cancelled, we were able to gain experience of Virtual Round and the Business plan in specific. Lessons about creating a business model, marketing skills, presentation skills and a lot more about business planning. In order to celebrate the efforts taken by the team members for SUVC 2022 a get together was organised where each member had to present their self made artwork or literary work written dedicated to the team. Some members had created digital art, some had traditional artwork, a few had written poems to express their feelings for the team. This day became one of the most memorable day for the team members. The month of march recruitment list was finalised, a free of cost seminar about basics of Solar Electric Vehicle was conducted by our team which aimed at creating awareness about motoring of zero tailpipe emission in the Campus of Annasaheb Vartak College of Arts, Commerce, Science for their students. Participation of students was in good numbers and the feedback by them for the seminar was great. Also social media head positions were allotted to the deserving members of the team and brakes and steering head positions were changed.

The month of April was all about the team's accolades and its car getting featured on social media, media and print publication. Team also participated in "VNPS" (A National Level Project showcase) and "Pitching Event for POCs developed and linkage" (A Innovation showcase and business plan event). Additionally the team drove the car to the Gudi Padwa rally which was held from the renowned Vasai fort. Till the month of may we had our chassis all ready and other self-designed components were manufactured and were in our hands. All this was being done while exams were either being held or were over the head.

Overall to conclude the year 2021-22 has been a sustainable, insightful and rewarding year for Team VCET Solecthon. The team is now awaited for ESVC 3000+.

IEEE

The EXTC department of VCET, organized virtual Webinars and Competitions for the students of VCET, under the committee named IEEE-SB in the academic year 2021-2022.

The respective webinars and competitions were conducted:

1. **Webinar on Industrialized AI for business and sustainability**
2. **Think Aloud: A group discussion event**
3. **Webinar on Lyx: Tool for writing papers/reports**
4. **FE Orientation on IEEE**
5. **FE Quiz**
6. **Workshop on Arduino**
7. **STEM Project**
8. **VNPS : Project Showcase**
9. **Webinar on Modulation Techniques in Air Navigation**

The very first webinar conducted by **VCET's IEEE Committee** was a one-day **Webinar on Industrialized AI for business and sustainability** which was organized virtually by the **VCET's Department of Electronics & Communication Engineering in association with IEEE-SB** on the 15th of September 2021. The informative webinar was organized for Second Year students. The main objective of this webinar was to provide the fundamental knowledge of how AI can be used for business and sustainability. The topics covered in the webinar were how AI is changing the business world and making it more sustainable.

This informative workshop was taken by **Dr. Bhushan Jagyasi (Research Scientist at Accenture)** With the help of this workshop, IEEE-SB has tried to instill a basic knowledge of industrialized AI in students which will be very useful to them for their future entrepreneurship.

Next, a grand competition was conducted called **Think Aloud : A group discussion event on the 8th and 11th of October, 2021.**

Think Aloud is a group discussion event where students come together to share their views on a common topic. For this discussion, the topic to be discussed was online tools for engineering and program outcomes. The participants were thrilled to take part in the event as it gave them an opportunity to share their views and discuss them with their peers. The participants were divided into two groups with 7 students in each group. The students who shared the most outstanding views were selected for the final round which was to be conducted on the 11th of October. The judges for the elimination round of this group discussion event were Dr. Pathan, Mr. Sainath Patil, Dr. Ashish Chaudhari, Dr. Madhavi Waghmare, Dr. Amrita Rupeere, and Dr. Archana Ekbote and the judges for the final round were Dr. Vikas Gupta and Dr. Ashish Vanmali.

A webinar on **"Lyx : Tool for writing papers/reports"** was virtually organised on

the **21st of October, 2021 from 10.00 am onwards.**

The honourable speaker for this webinar was Dr. Ashish Vanmali (Associate professor and HOD of the IT department). The webinar's goal was to present some tips for writing good abstracts for scientific papers/reports and to gain hands-on experience applying some of the tips to real examples. Lyx tool was explained in the webinar which is a document processor that encourages an approach in writing; based on the structure of the documents and not simply their appearance. Students took a keen interest in the webinar and Lyx tool which would help them in writing their next paper/report. The webinar was successfully conducted by the IEEE members.

On **15th February 2022, FE Orientation** was conducted on the IEEE-SB committee and its overall benefit.

For the orientation IEEE, members went to each branch of FE i.e. First year students to shine a light on the IEEE committee. The first-year students were made aware of the IEEE committee, what it stands for, the events being conducted under IEEE, and the benefits of having an IEEE membership. They all were excited and wanted to know more about the committee. The FE orientation was successfully conducted under the guidance of Dr. Sunayana Jadhav (Ph.D. in Electronics engineering from VJTI, Mumbai) and all the active members of the IEEE committee.

The next event of the **FE quiz** was conducted on the **18th of February 2022.**

The next event organised by the IEEE committee was the most exciting event for the first-year students which is the FE quiz. The FE quiz is one of the most awaited events that students from the first year gets to take part in. This was the first event since the pandemic which was conducted in offline mode. The event took place in the seminar hall on the 3rd floor. The event kicked off with the introduction of the committee and the rules for each round. The event was divided into three rounds. The team that has the most points at the end of the event would win. The event was a huge success under the guidance of the IEEE in charge Dr. Sunayana Jadhav and all the members of the IEEE committee.

Next was a **Workshop on Arduino** which was conducted on the **4th and 7th March 2022.**

The informative workshop was organized for Second Year students. The main objective of this workshop was to provide the fundamental knowledge of Arduino programming. The topics covered in the workshop include- Hardware and Software Programming. The outcome of the workshop was to brush the skills on Arduino as well as its simulator.

This informative workshop was taken by Mrs. **Shaista Khanam** (Asst. Professor, VCET) and **Mrs. Trupti Shah** (Asst. Professor, VCET). With the help of this

workshop, IEEE-SB has tried to instill a basic knowledge of Arduino in students which will be very useful to them for their future projects.

The next most auspicious event organised by the IEEE committee was the Stem Project, which was conducted on the **15th and 21st of March 2022.**

The goal behind the Stem Project was to make young school students aware of the electronics engineering branch. For this Stem Project, students made ten easy-to-understand experiments using a simple PCB board and led, potentiometer, etc. students were given hand-on experience with the basic knowledge about conductivity and conversion of mechanical energy to electrical, etc. The Stem Project was conducted under the guidance of Mrs. Shaista Khanam (Ass. Professor, VCET), Mrs. Trupti Shah (Ass. Professor, VCET), Dr. Sunayana Jadhav(Ph.D. in Electronics Engg, VJTI, Mumbai) and Dr. Amrita Ruperee (Ph.D. in wireless communication SNDT, Mumbai) and all the members of the IEEE committee.

The next event was **VNPS : Project Showcase** competition which was conducted on **13th April 2022.**

For the inauguration ceremony, we had **Dr. Vankudre and Dr. Vikas Gupta (HOD EXTC) along with the respective faculty members who made their presence felt.** Students from every department of the college participated in VNPS also students from other colleges participated in this project showcase with great enthusiasm and everybody's competitive side was up to the mark. VNPS was conducted in offline mode in three different tracks. The judges were fair and square, and it was an opportunity for each and everyone as it was not just about winning it was all about participating in VNPS and being a part of it. Everyone learned about different ideas and would look forward to applying them. So VNPS was all about learning while being competitive. VNPS was concluded by a validatory function while announcing all the winners from the respective tracks.

The last event conducted was a **Webinar on Modulation Techniques in Air Navigation** which was conducted on the **21st of April 2022.**

The webinar proved to be very useful as it made students aware about the modulation techniques that are currently being used. The speaker started explaining from the basic modulation techniques of amplitude and phase and frequency modulation and then moved on to the more difficult techniques such as Orthogonal phase shift keying and pulse width modulation. The webinar also shed light on how different techniques compare with each other. The webinar was a huge success.

The guest speaker for the webinar was **Mr. Akshay Gaitonde (Assistant Manager CNS, Airports authority of India).** The webinar was successfully conducted with the constant efforts of the committee of IEEE.

IETE

1. QUIZZARDS OF TECHNO

Date : 15th September 2021.
Total number of participants : 47
On the occasion of Engineers Day (15th September 2021), **Electronic and Telecommunication Department** of Vidyavardhini's College of Engineering and Technology in association with IETE- SF organised an exciting event named **"Quizzards of Techno".**

2. BUILD YOUR OWN PCB

Date : 13th October 2021
Total number of participants : 190
Chief Guest : Mr. V. V. Kale
VCET's Electronic and telecommunication department in association with IETE-SF organised an informative workshop named **"Build your own PCB".** In this workshop the participants were taught an effective PCB formation layout designing. After the online session on simulation, Mr. V. V. Kale demonstrated us practically about how to build our own PCB.

3. VLSI TECHNOLOGY

Date : 13th October 2021.
Total number of Participants : 139
Chief Guests : Mr. Mrugendra Vasmatkar, Dr. Amrita Ruperee and Ms. Shaista Khanam
Vidyavardhini's College of Engineering and Technology, department of Electronic and telecommunication in association with **IETE-SF** organised an interesting event named **"Learning of VLSI Technology 1.O".**

4. SCOPE OF EMBEDDED SYSTEMS IN REAL LIFE APPLICATIONS

Date : 1st February 2022.
Total number of Participants : 59
Chief Guest : Mr. Rajas Patil, Embedded Software Engineer, Faurecia Clarion Electronics
VCET's Electronic and Telecommunications department in association with IETE-SF on the occasion of IETE Day-2022 organised an informative webinar event named "Scope of Embedded systems for real life applications".

5. WORKSHOP ON OCTAVE

Date : 11th February 2022.
Total number of Participants : 54
Chief Guests : Ms. Trupti Shah, Assistant professor, VCET.
VCET's Electronics and Telecommunications department in association with IETE-SF organized an informative workshop named "LEARN WITH OCTAVE". In this event the participants were taught with the basics of OCTAVE- a highly advanced programming language.

6. Inauguration of Oscillations 22 of IETE-Mumbai centre followed by a Technical Lecture on "Introduction to machine learning and its industry applications".

Date : 18th March 2022.
Total number of Participants : 100
Chief Guests : Mr. Shailendra Kadre and Mr. Parag Walinjkar

VCET's Electronics and Telecommunications department in association with IETE Mumbai Centre and IETE-SF of VCET organized "Inauguration ceremony for Oscillations'22" followed by a Technical Lecture on "Introduction to machine learning and its industry applications".

7. WORKSHOP ON FPGA

Date : 24th, 25th, 28th February 2022.
Total number of Participants : 100
Chief guests : Dr. Sunayana Jadhav, Ms. Shaista Khanam, Ms. Trupti Shah and Ms. Ekta Naik
VCET's Electronics and Telecommunications department in association with IETE-SF of VCET organized a workshop on "Ultimate guide to FPGA design flow". The workshop was a three day event full of curiosity and excitement for the students to learn and build something using new technology.

8.OSCILLATIONS'22-TECHNICAL PAPER PRESENTATION

Date : 30th March 2022.
Total number of Participants : 125
Chief guests : Mr. Atul Wad, Dr.Suvarna Bhise and Dr. Anjana Rodrigues.
Vidyavardhini's College of Engineering and Technology, Department of Electronics and Telecommunication in association with IETE-SF organised an interesting event named "OSCILLATION'22-THE TECHNICAL PAPER PRESENTATION". All the participants showed their competitive sides and were up to the mark.

9. FUNDAMENTALS OF EMBEDDED C

Date : 9th April 2022
Total number of Participants : 73
Chief guests : Mr. Rajas Patil (Embedded Software Engineer, Faurecia Clarion Electronics)
VCET's Electronic and telecommunication department in association with IETE- SF organized an informative webinar named "Fundamentals of Embedded C".

10. VNPS'22

Date : 13h April 2022
Total number of Participants : 170
Chief guests : Mr. Parag Walinjkar, Dr. Lochan Jolly,Dr. Amrita Ruperee, Mr. Parag Sagalia, Mr. Vipul Gohil, Ms. Sandhya Supalkar, Mr. Sandeep Diwedi and MS Kanchan
Vidyavardhini's College of Engineering and Technology, VNPS'22 is a national level project showcase event which is hosted by VCET in association with all the student chapters namely : IEEE, IETE, CSA, ISHARAE, CESA etc. It is an event to applaud the efforts of students who have nurtured their project from an idea to an accomplishment. In this event the participants were required to showcase their projects.

ETA

"Education is not the learning of facts, but the training of the mind to think!" *-Albert Einstein*

ETA (Electronics and Telecommunication Engineer's Association) is a literature committee of the EXTC department. It provides a platform for the students to stay updated with present and future technology. ETA provides good opportunities for the students to bring out their talents related to writing and editing while promoting the habit of research.

Over the years, the ETA committee has journeyed a long way to fulfilling its core mission. It works not only towards the technical skill development of the students but also towards developing their soft skills by teaching students the importance of teamwork along with all the skills required to design and develop a magazine from scratch.

Continuing the trend this year, ETA published informative and rich newsletters. This year, we came up with continuous updates for the ETA Wall and Alumni interviews. On the ETA Wall, we display quizzes and announce weekly winners for the same. The wall also provides short and crisp articles on recent technological advancement in EXTC field such as 5G. The Alumni Interview section includes our interviews with VCET Alumni. These interviews consist of interesting questions including their career experience, tips for students, guidance and everything which the students wish to know in a way to shape their future. We released our newsletters on the topic 'Nano Technology' and 'FinTech' for the academic year 2021-22

We have released our 12th edition of PULSE Magazine i.e. PULSE'22 with the theme 'Industry 4.0'' which has included articles about Industry 4.0, its applications in different fields, and its career scope. The magazine not only included Departmental Events, Alumni talks and Student Achievements but also Expert articles.

This year we decided to modernize the design of the magazine. It also introduced us to fields like digital printing and the use of professional tools, which the members could further delve into and maybe even pursue as a career. Following and implementing this vision, the ETA committee has always made great efforts to expand the horizons of knowledge and education. It has provided the students with an opportunity to gain knowledge beyond their academic boundaries. It has enabled the students to not only be technologically updated but also helped them grow as effective professionals.

A sincere gratitude to our respected HOD Dr. Amrita Ruperee, and our Staff-Incharge Ms. Ashwini Katkar for their valuable support and guidance. Also like to thank ETA team, without them everything wouldn't have been possible.

ISA

VCET ISA Student Section of Instrumentation Department conducted various events for the year 2021-2022 to keep students indulged in multiple activities and also gave them opportunities to interact with industry experts in various fields where instrumentation is applied in the industries such as in biomedical, process industries, etc. Below mentioned are the activities conducted and managed by VCET ISA Student Chapter.

Expert Lecture on BMI

This lecture was specially arranged for final year students to give them insights of instrumentation used in the field of Medical. Mr. Tarun Nair is the alumnus of VCET and currently pursuing his master's degree in the field of Biomedical Instrumentation. Throughout the session he talked about various opportunities that await in the field along with advancements that he saw in the field. He gave students the insights that were needed to make a sound career in this field. Lecture ended with a very interactive Q&A session.

VNPS'22

VNPS (VCET's National Level Project Showcase) was held on the 13thApril 2022. This year VNPS was held in the offline mode as the covid-19 restrictions were lifted. The Chief Guest for the event was Mr. Swapnil Parab (Hod Projects, MAHAIT, Maharashtra) and the Guest of Honour were Mr. Anand Sankhe (Executive Engineer, MMRDA) and Mr. N. V. Chaudhary. Students from VCET as well as across the country participated in this competition to showcase their projects to the industry experts. The entire event was divided into 5 Tracks based on different fields of application those tracks were Computer and IT, EXTC and Instrumenta-tion, Mechanical and Civil, Instrumentation was in TRACK 3 it was managed by the Department of Instrumentation under the guidance of ISA Faculty Advisor Mrs. Mugdha Salvi. This track consisted of projects based on Automation, Process Control and Biomedical Instrumentation along with Artificial Intelligence. The judges of this track were Mr. A. P. Kamath , Mr. Shivang Desai, Mr. Pratik Jain and Mr Rakesh Patil.Some projects that were appreciated by the judges were **Solar Powered Autonomous Vehicle, Hydro-Farming with Autonomous Regulation of Nutrients and Heart disease identification using ML.**

The event came to an end by 5:00 pm in the evening along with the announcement of winners of different tracks. The projects that backed 1st prize was solar powered autonomous vehicle Hydro-farming with Autonomous regulation of Nutrients. At the end of the event, the students had a wonderful experience that will be useful for them in the future and the event was a great success.

Seminar on Functional Safety

This seminar was conducted by Mr. Lalit S.

Shaiwale, FS Trainer under TVC Functional Safety Services on 21 April 2022 at 2:00 pm. Before the session began Mr. Santosh Patil, President of ISA Maharashtra Section addressed the students. During the seminar, Mr. Lalit spoke about various topics like applicable Functional Safety Standards and their environments, Hazard identification and Risk assessment, importance of Safety requirement specification, importance of Proof testing, etc. He also discussed other such topics which are included in the basic Functional Safety.

CSI-VCET

CSI - A society that helps students to acquire knowledge and gain information about recent technological trends and convert them into professionals.

"CSI" which stands for Computer Society of India is one of the most esteemed technical committees of VCET. It is a combined organization of COMPS, IT, AI & DS and CSE department which conducts events that would acquaint the students with modern-day technology and advancements in the IT field. It is a National Committee that works for technical aspects for students pursuing engineering in the field of IT and Computer. Moreover, it organizes various technical workshops and seminars for all students where they get an opportunity to get acquainted with the upcoming technologies. CSI-VCET is one of the part of group of committees that organize VCET's National Level Project Showcase (VNPS) every year. The main aim of this committee is to make students aware of new technologies. Being a part of the CSI working committee gives a chance to students to get involved in all these events and get a close look.

Augmenting Non-Functional Requirements of Projects

A webinar was conducted on Augmenting Non-Functional Requirements of Projects. Non-functional requirements are the criteria for evaluating how a software system should perform and it have certain quality attributes in order to meet non-functional requirements. The webinar was held on 7th April,2022 at 2pm.Our honourable guest speaker Mr. Prasad Padalkar, Assistant Professor of DBIT, Lead Auditor ISO 27001:2013 gave an explanation about the topic and explained the students about it. It was an interactive session. Students put forward their querries and our speaker guided them. The webinar was conducted through google meet and received an overwhelming response.

VNPS 2022

VNPS stands for Vidyavardhini's National Level Project Showcase, is an event held to share, grow and receive constructive feedback on developed projects. It is the biggest event organized by VCET, every year. This year, after the covid pandemic, various committees not only conducted the event but made it a colossal one in the history of VCET. VNPS is recognised by the combined efforts of various departments' student committees : IEEE, ISA, CSI, IETE, VMEA, ISHRAE and CESA. They work in sync to provide a platform to the students with different project ideas to come together and present their ideas and innovations. VNPS aims to inspire students to think, motivate and innovate. The event was held on 13th April, 2022. The inauguration ceremony started at 10 am where our guests of honour Mr. Arun Gupta,Senior software engineer at Enkash, Mr. Sameer Pathan, Senior software engineer at Turtlemint, Mr. Yadnesh Zagde, CEO and Senior Research & development engineer at TECH CRYPTORS, Mrs. Payal Doshi, CEO and Founder in Prime Softech Pvt.Ltd. and Dr. Vinayak Shinde, Associate professor in Shri. L. R. Tiwari college of Engineering shared their perspective. Mr. Pranav Dave, Managing Director of innovative creators, addressed the participants.

Total 200+ teams participated in VNPS. The format in which the VNPS conducted was by dividing all the teams as per their domains (Tracks). There were 5 tracks in which teams were divided for major projects and for minor projects. Among which the Track 4 was allocated to the CSI committee, which consisted of domains such as Cloud computing & Big data, Artificial intelligence. & Machine Learning, Gaming, Internet of Things (IOT), Web security & Networking, Robotics. Total number of teams which participated in track 4 were 105 which consisted of a total of 311 participants. Track 4 was further divided into 8 to 10 domain specific groups to keep the event fair and competitive. These groups consisted of 12-15 participating teams. After the end of the inauguration ceremony, the Judging round began where teams presented their projects to the Judges. The judges discuss and give feedback to each team from their group. After the completion of the judging round, the judges ranked their projects i.e. each group had their respective winners. The valedictory function was held at 5 pm where all the winners were announced.

These events were a huge success for the CSI Committee with unbeatable participation and splendid acknowledgement.

IGBC

IGBC student's chapter actively organises the various technical events, Product Showcase, Project Showcase and different workshops related to the civil engineering for the awareness of advancement in technologies. The council offers a wide array of services which include developing new green building rating programs, certification services and green building training programs. The committee also organises Green Building Congress, its annual flagship event on green buildings.

In the academic year 2021-22, the committee has organised two technical event, VNPS and Nirmaan. The Vidyavardhini's National Level Project Showcase (VNPS) which was held on 13th April 2022, is an annual celebration of the technical accomplishments of our engineering undergraduates. Students from various engineering departments, participated and presented their team projects through posters and prototypes (Model Presentation). IGBC Student Chapter aims to provide a platform for the civil engineering students to manifest their technical expertise by presenting their projects in Track 5 which includes various civil engineering domains such as Concrete & structural Engineering, Construction Management, Geotechnical Engineering, Transportation Engineering, Water Resources and Environmental Engineering. The IGBC Students Chapter along with other committees such as IEEE, ISA, CSI, ISHRAE, IETA and VMEA of the institute organised Vidyavardhini's National Level Project Showcase (VNPS), 2021-22 to bring such creativity under one roof. The event included research & technical advancement projects in the Civil Engineering field

The second event Nirmaan which was held on 14th and 15th April 2022, has provided a stage for all civil fanatic to exhibit their intelligence, expertise and abilities at the greatest level. The wide variety of contests, from technical to non-technical, such SimCity, the Egg Drop Challenge, House of Cards and Panel Discussions, allow for the evaluation of participants' competency levels and the determination of their logical abilities. Egg Drop Challenge was the fun way to incorporate critical thinking and problem solving into an engaging activity. In this challenge, the students had to design a structure that will protect their precious payload: an egg. House of card explored the concepts of structural engineering and how to measure the critical load, or the weight at which a structure will fail. Technical Poster Presentation, a platform for all those technocrats to present their research work. Sim City is a competition, in which teams have to develop a given town by applying knowledge of urban planning. A Panel Discussion on "Scope and Opportunities in Civil Engineering" was also organised. The objective of the program was to bring together the experts, practicing engineers,

officials from local bodies, students, and academicians to discuss and debate on scope and opportunities in the fields of Civil Engineering.

Mr. Viren Chandanshive, the Staff-Incharge of IGBC Committee and the other staff members of the Committee have consistently pushed the students to plan and take part in these activities. Without a strong team, no significant result can be attained, so we are grateful to the entire IGBC Committee team for their tireless efforts. With the assistance of faculty and staff, the IGBC Student's Chapter aspires to host bigger and better technical events in the following year.

Thank you.

NSS

The first event of the year was Tree Plantation. Due to lockdown restriction the participants were asked to plant saplings in their respective vicinity and share their pictures while planting. This event was conducted from 28th July, 2021 and 15th August, 2021.

The next event was Kalasparsh which was conducted from 14th September 2021 to 19th September 2021. In this event 52 participants were able to show their creative side through drawing, rangoli and Ganpati decoration. The next event was Gandhi Jayanti which was conducted on 2nd October 2021 and 60 students participated. In this event the patriotic history of Gandhiji was emphasised and FIT INDIA MOVEMENT was also commenced. The next event was Vaccination Drive which was conducted from 26th October 2021 to 2nd November 2021. In this event people received Covid Vaccination by doctors. Each student's vaccination status was confirmed and the ones who were not fully vaccinated were encouraged to take utmost benefit of this organised event. In total 150 students and faculty members participated in this event.

The next event was Vigilance Awareness which was conducted on 12th November, 2021. In this event the 80 volunteers discussed various government policies, social issues and current affairs. The next event was Beach Cleaning which was conducted at Navapur Beach on 16th November, 2021. The campaign was successfully carried out by 81 students under the guidance of college professors in the scorching sun with great perseverance and enthusiasm.The next event was Surveillance of Plastic Use which was conducted on 9th December, 2021. This event was held in collaboration with an NGO wherein the volunteers did a survey on how much plastic

packages were used in the eateries near colleges and asked the owners to use another alternative to avoid plastic. 50 students participated in this event.

The next event was Rider Safety Training which was conducted on 17th December, 2021. In this event students were educated about important aspects of road safety and how to be a responsible rider. In this event, 69 students participated.

The next event was National Youth Day which was conducted on 12th January, 2022. This event marked the 159th birthday of Swami Vivekanand followed by educating the students on utilising the impeccable youth year wisely. Few students gave speeches while others attended the event. In this event, 100 students participated.

The next event was National Girl Child Day which was conducted on 24th January, 2022. In this event, the girls of the college were asked to click and upload a picture of them with their parents with an aim to promote a feeling of pride for being a parent of a girl child.

The next event was Raise Your Voice, which is the elocution competition which was conducted on 27th January, 2022. In this event the participants shared their political thoughts and concerns. In this event 80 students participated. The next event was Shivaji Jayanti which was conducted on 19th February, 2022. This event marked the 392nd birthday anniversary of Chhatrapati Shivaji Maharaj. In this event the life and history of the Great Chhatrapati Shivaji Maharaj was shared. In this event 60 students participated.

The next event was International Women's Day which was conducted on 8th March, 2022. An essay writing competition was organised. 30 students participated in the competition.

The next event was Sadak Suraksha Motorcycle Rally which was conducted on 20th March, 2022. This event was organised for the safety of an individual while driving on the road. A street play was also performed. The next event was Mega Donation Camp which was conducted from 15th March - 8th April, 2022. In this event, the NSS team worked together and asked the students and other faculty members to donate things like groceries, clothes, stationary items, books, etc. as a helping hand for the needy ones. Many students from the college participated and donated various items for the needy ones.

Prof. Pradip Gulbhile
Staff In-charge - NSS

TRAINING & PLACEMENT CELL

The T&P Committee at Vidyavardhini's college of Engineering and Technology is a body which is responsible for carrying out all placement related activities. We are a team of highly dedicated students and faculties who work for a common goal of obtaining the desired placement offers for the students in terms of both profiles and organisation to work with. The Placement Committee looks into task like student skills development, soft skills training, student's skills-job mapping and placement related event organising. Apart from these tasks, we also conduct mock group discussions and interviews which equip the students to face the placement interviews and be industry ready. We the Placement Committee also plays an important role in developing and sustaining a long term mutually beneficial relationship with the industry.

Accordingly, for the academic year 2021-22, we conducted the following trainings and Seminars for the students.

- Campus Credential training for 3rd Year Students.
- Mock Group Discussion and Personal Interviews for Final Year Students.
- Aspiring Minds Continuous assessment test.
- Soft skills development Program
- Competitive Exam Awareness Programs
- Online Internship for students

We had a number of breakthrough record this year with 383 offers were made to students by 82 companies till 14th Dec 2022. Various students also got elite offers in various companies with the highest offer being 10 LPA at L & T Infotech. The average salary offered is 3.2 LPA.

We at Training & Placement cell are striving to take this alliance with industry at a higher level each year. We at VCET have tied up with Aspiring Minds, India's leading online assessment and hiring platform for Pre-asses tests and campus placements, and Campus Credential which is training institute providing Campus recruitment training, employability skill training.

Achievements for the Year 2021-22 :

- **Prof. Sanket Patil (TPO) appreciated by INFOSYS for contribution in co-ordinating placement activities effectively over the years.**
- **Appreciated by SHL (AMCAT) for contribution towards improving the employability ecosystem in the college.**
- **More than 70 students placed with the package greater than 5 lakhs per annum.**
- **The highest package of the year 2021-22 is 18 Lakh, placed in Morgan Stanley.**

Name of the Company	Civil	Comps.	EXTC.	INFT.	INST.	Mech.	G. Total
Aarti Drugs					1	1	2
AiBorne Tech				1			1
Atos				5			5
AutoCal Solutions Pvt. Ltd.					1		1
Best Geotechnics Pvt Ltd.	3						3
Burns & McDonnell					1		1
Capgemini		3	8	11			22
Clover infotech							1
Coditas Solutions				2			2
Conceptual Advisory Services LLP.	2						2
Contentstack				2			2
Course5 intelligence			2				2
Davison Instruments Pvt Ltd					1	1	2
Dear Digital				5			5
Deloitte				2			2
Drip Capital		1					1
Evosys				5			5
Feedspot			1				1
First hive				2			2
Flextronics Technologies (I) Pvt. Ltd.						1	1
Glaum Enclosures Pvt Ltd, Vasai						1	1
Hexaware			2	1			3
IBM				2			2
Infosys	1	16	13	10	1	5	46
Instazen				2			2
Interactive Broker		3					3
IOS Commerce						1	1
Jacobs India Pvt. Ltd.					1		1
Jaro						2	2
Jindal Mobilitric Pvt Ltd			1				1
Johnson Controls					2		2
LTI	1	13	4	11		1	30
Magna Steyr, Pune			1				1
MAQ software				1			1
Media.net		3	4				7
MindTree		1	1				2
Morgan Stanley		1					1

Patil Machines Pvt Ltd						2	2
Prabhat automation					1		1
Pragati Switchgears						1	1
protivity			1				1
QSpiders Campus Connect					2		2
Raja Software Labs				1			1
RAW Enginnering		1					1
RDC Concrete India PVT LTD	2						2
Robokart			1				1
S-Crane					1	2	3
SCG Design Solution	4						1
SP Ultraflex Systems Pvt. Ltd					1		1
Tata Power Company Ltd		1		3			4
TCS	1	22	11	21		7	62
TECHNIMONT					1	3	4
Techno Win IT Infra Pvt Ltd				3			3
The Wedding Filmer			1				1
Thermax Limited						3	3
Thermolab						1	1
upGrad					1		1
V2STech		1					1
Vaaman Engineers Pvt Ltd						1	1
Virtusa		11	2	11			24
Vistar			1				1
Vodaphone			1				1
Wipro	1	8	17	27	2	2	56
ZECO Aircon Limited					1	1	1
Zensar		1	6	5			12
Zensoft		1	5	9			15
ZEUS Learning		1		1	1	1	3
Grand Total	**15**	**88**	**78**	**148**	**37**	**37**	**383**

Placement Detail

Staff Members :
Prof. Prafulla Patil (Placement Manager)
Prof. Sanket Patil (TPO)

Placement Staff Co-ordinators :
Prof. Kanchan Sarmalkar (Instru)
Prof. Anagha Patil (IT)
Prof. Ashwini Katkar (EXTC)
Prof. Mukund Kavekar (MECH)
Prof. Kamlesh Bachkar (MECH)
Prof. Vikrant Kothari (Civil)
Prof. Sneha Mhatre (Comps)

E-CELL

The Entrepreneurship Cell of Vidyavardhini's College of Engineering and Technology (VCET), Vasai known as 'E-Cell' was formed with mission to develop and motivate future Entrepreneurs in India who would drive economic development in that area. With a variety of programs viz. Startup Genesis, Lights Camera Startup, E-Summit, Internship Fair, E-Cell plays a key role in development of Entrepreneurial skills and giving an opportunity to the deserving and the desired ones.

Flagship Event : E-Summit

Date : 9th April, 2022
Venue : VCET Campus/Google meet

E-summit is an Entrepreneurial event wherein we call various speakers from different business backgrounds to talk about their life experience, risk taking, Entrepreneurial success and their products. This event is organized for exploring the new trend, startup ideas and the business nature to the students.

Flagship Event : Internship fair 2021-22

Date : 8th June 2022
Venue : VCET Campus & Google meet

The Internship fair is one of the flagship event which is held for the students who require internships and this event helps them to get a kick start to their careers. It provides a platform for the companies to hire some of the best talents in the cities. The motto is to create a recruiting event for aspirants so that they get a professional experience and inculcate new skills inturn benefitting the company as well by contributing their talent and efforts for company's progress.

Event : Entrepreneur's Desk

Date : 7th January, 2022
Venue : YouTube Live

The Entrepreneur's Desk is an event which gives students an opportunity to showcase their startups to the society and are guided by professionals helping them gain insights and strong support for their startups. This event gives an opportunity to students to showcase their business model or a startup in front of professional Entrepreneurs. Professional Entrepreneurs guide them and help those young Entrepreneurs through small obstacles which the professional Entrepreneurs have already faced.

Event : Start-up Genesis

Date : 26th September, 2022
Venue : Google meet

Startup genesis is an event wherein various speakers are called from different business domain to conduct a two day workshop on how we can create a startup and how we can proceed our further Entrepreneurial journey in a progressive way. In this two day workshop, many skills were discussed which were required for a successful startup business.

Event : Lights Camera Startup

Date : 4th September, 2021
Venue : Google meet

The event Lights Camera Startup is an Entrepreneurial event for various budding Entrepreneurs where various speakers are called from different business domains to guide and inspire students on basic fundamentals of starting a business. In this event, students get to know about how to develop Entrepreneurial skills like getting a problem solving idea, analysing and reviewing the idea of the product, testing the product and then finally launching the product. These sessions help students to think like an Entrepreneur and motivate them to develop approaches to transform their ideas into ventures.

HACKATHON'21 RELOADED

The Department of Information Technology of Vidyavardhini's College of Engineering & Technology (Vasai) has been a proud host of the esteemed coding battle HACKATHON for 4 consecutive years now. We whole-heartedly say that Hackathon'21 Reloaded was one more star added to our success.

Owing to the pandemic situation, students did not seem to be getting exposure to showcase their talent. And thus, to bring a change from their monotonous online lectures and to nurture their inquisitive minds, we introduced 30 hours of Virtual Hackathon - VCET Hackathon'21 Reloaded with the theme 'Need of the Hour'.

Our first Theme-based Hackathon was held on 1st and 2nd October 2021. The prize pool was worth Rs. 50,000/-. The top 5 winners were rewarded with cash prizes and exciting goodies. Each participant received a certificate of participation as well. VCET Hackathon'21 Reloaded gave students the platform to meet, communicate, and collaborate with other developers. Through these conversations, participants got to know some techniques and hacks which might be beneficial for their further hackathons. Moreover, these developers helped and guided them through their code problems, interview needs and presentation skills.

Since there was no geographical barrier to the virtual event, we had participants from all over India. Our second edition of Virtual Hackathon witnessed an overwhelming response with 38+ teams competing against each other. There were participants from different regions, who worked relentlessly and pitched their brilliant ideas in front of an experienced panel of juries/judges from reputed companies. This year, five problem statements had been provided on our official website and the participants were expected to submit abstracts for each, out of which 1 was allocated before the contest.

Hackathons like these inspire students to implement innovative techniques and discover new concepts and develop their skills. It is one of the few opportunities for the participants to gain extensive knowledge, analyse and evaluate outcomes and discover individual abilities.

To sum it all up; like every year, VCET Hackathon'21 Reloaded was a great success.

EBSB

Ek Bharat Shreshtha Bharat is an initiative started by honourable Prime Minister, Narendra Modi on the 140th birth anniversary of Sardar Vallabhbhai Patel on 31st October 2015. In order to strengthen this initiative EBSB committee was established. EBSB that is Ek Bharat Shreshtha Bharat is a committee started with a mission to bring unity among students coming from different states and Union Territories. This committee aims at enhancing a mutual understanding between students belonging to different regions so that they can respect the culture of other states. Unity in Diversity is the motive of our committee.

This year we have conducted three events in our college which includes Jignyasa, Jhoti and Kalakruti. All this events has the theme Collaboration of Maharashtra and Odisha. Similarly every year we assign themes of two states so that maharashtrian students can get to know about culture of other states & students belonging to other states can understand Maharashtra's culture.

Jignyasa is a Quiz competition. Here the questions asked are based on India & Indian Culture. Jhoti is a rangoli making competition & Kalakruti is poster making competition. All this competitions were conducted with great enthusiasm and students enjoyed the overall event. Winners are also awarded with case prize. On the day of event the judges also encouraged the students for bringing their unity in this diversity.

We are conducting various cultural activities in to create awareness about traditions of different states. We are organising EBSB webinars where we try to inculcate knowledge about Indian culture in the young minds. These activities creates curiosity in everyone's mind to think about culture and tradition of different states. Knowing about others culture helps in making a close bond with others to work together as a team in any group project that will increase their productivity that will brighten their future and in turn's India's Future.

EBSB committee has created a great impact among our college students. For participating in our event students need to do research about Indian culture. They also gathered information by talking to their friends about their culture. Most students were unaware of eastern states & their culture. In Jignyasa one of the rounds were based on Seven Sisters of India due to which participants have to do research on these states. Even during the event we have decorated the whole atmosphere demonstrating Indian culture that will gain everyones interest to know about these pictures, illustrations. Making rangoli, doing poster making with the theme collaboration of Maharashtra and Odisha which bought artistic thoughts of participants that

creates an image of India in their hearts.

Every year we are conducting such events with great enthusiasm to show the diversity of Indian culture. Each year we are giving different states collaboration with Maharashtra. And we will come with more exciting events in coming years to strengthen the unity of India.

GERMAN LANGUAGE CLUB

Prof. Yogesh Pingle, Grundstufe -II Certified (German Language)

Nowadays, students with knowledge of multiple languages are considered to be talented students. Such students are recommended for placements in good companies and this is the reason why college has started with the 'German Language Club' established in 2016, which is welcomed by students of different departments.

By learning a foreign language, students can improve their skills which is more profitable for their personal development as well as good for their career. As most of the core companies are located in Germany, it is a good chance for students to get a job over there by learning German. Even if students are looking for higher education in foreign nations, this language can help them to get into any institute.

After joining this club, students get to learn German vocabulary which later results in fluent German communication. Even German based companies look for individuals who possess this language. The course structure is designed in such a way that after successful completion, students will be able to attempt A1 certification. The other benefit of joining the course is that it is provided at an affordable ranger. Where other training institutes cost this course at around Rs. 15,000, the students over here can take the same course for approximately Rs. 3,000.

- German has the biggest number of resident speakers in the European Union; it is far more than English, French or Spanish.
- The German language is amongst the ten most normally spoken languages across the globe.
- Germans are global leaders in Engineering
- German is the gateway to higher education.

The new language opens up new opportunities and offers you an outlook that you have never come across otherwise. Personal, professional, economic and social considerations are the added advantages of learning the German language.

Our students studying in German :

- Samruddha Mhatre
- Batch 2019-20
- Doing MS in Cyber Security in Berlin

- Krima Shah
- Batch 2020-21
- Dong MS in Data Science in Dortmund

Course Objectives :

- To educate students with German Language.
- To teach one foreign language for students to improve their skills.
- To prepare students for A1 Certification.
- To enable students to get into German based core companies.

Batch 2022-23 :

Number of students registered : 26 Declaration of course session : 5th April, 2022 Commencement of Course : 30th July, 2022 Maintenance of attendance, assignments and quizzes for students.

Batch 2021-22 :

No. of students registered : 30

Declaration of course session : 24th May, 2021
Course duration : 10th July, 2021. 26th June, 2022
Mid-Term Exam : 3rd April, 2022
End-Term Exam : 26th June, 2022
Maintenance of attendance, assignments and quizzes of students.

German Club Committee w.e.f. 2021-22 :

- Riya Dutta - Head
- Aditi Sawant - Deputy head
- Nikilesh Waghmare - Secretary
- Shreya Shetty - Admin head
- Thathansh Joshi -Technical head.

PR COMMITTEE REPORT

"Publicity is absolutely critical. A good PR story is infinitely more effective than a frontpage ad." said Richard Branson.

We the PR (Public Relation) team of our VCET glad to share few words with you.

PR team maintains public relations of our college. We share each and every moment of our college with people via media partners through articles and live videos . We are really thankful to our respected principal Dr. Harish Vankudre sir for giving us this opportunity to represent our college.

We have covered major events of our college like VNPS, Zeal, E-Summit, Degree Certificate Distribution ceremony, etc. We are really proud to say that till date we have worked with greatmedia partners like Maharashtra Times, Lokmat, Loksatta, ZEE 24 taas, Sakal, etc. We have published many of the articles in above mentioned newspapers. Also they have visited to our campus for live coverage of VNPS 2022.

We are also looking forward for collaborations with some media partners which will be new gem in crown of VCET. We are also trying to reach out more people through social media networks. Last but not the least, we are really thankful to all our teaching and non-teaching staff for their valuable contribution in our work.

TEAM AIRNOVA

MOTIVE :

Team Airnova is the official Aeronautics & Aerospace team of Vidyavardhini's College of Engineering & Technology; the main motto of the team is to spread awareness about technological advancements in the Aviation and Spacecraft sector. The team was established in 2019 and made an official part of the college in 2020. The team functions under the guidance of our faculty in-charge Prof. Vishwas Palve and along with him we have had support from other college faculties.

The team has participated in several competitions in this time.

EVENTS PARTICIPATED IN :

i) SAE VIT Aerodominator 7.0 -

The competition was a virtual competition, regarding designing a UAV that should be able to carry medicines to supplied in the pandemic conditions.

ii) MSSA's Interplanetary Aerial Systems Challenge 2021-

This virtual competition was based on designing a UAV that is to be sent on Mars and able to fly in those conditions whilst being able to navigate and survey a region along with picking up & dropping of packages

iii) Aerophilia 2022-

The goal of the event is to develop RC aircrafts that can best fulfil the stated mission profile, a balanced design that has proven good flight characteristics, practical and affordable manufacturing requirements

ACTIVITIES CONDUCTED BY COMMITTEE :

I. The team is currently working on Gesture Control Drone. The drone is capable of being controlled by hand gestures of the pilot. This is the team's research project. We have created a machine learning model to detect gestures from the camera with over 96% accuracy. The drone is currently under testing.

II. Seminars and workshops to raise awareness about Aeronautics and Aerospace

- A webinar was held on Opportunities in Aerospace & Aeronautics Industry
- A Seminar was held on Types of Drones & their applications.

IMPACT CREATED :

The team provides a platform for all engineering students to come together and design, manufacture RC aircrafts and UAVs to participate in competitions regarding the designing of UAVs & aircrafts that can be implemented in the industry with regards to recent developments.

TEAM ACHIEVEMENTS :

I. For the competition SAE VIT Aerodominator 7.0 we designed the RC Aircraft - Vaayuvaidya which ranked 16th all over India and was designed in the period of 12 days by Team's Iteration 1.0.

II. Our model for the MSSA's Interplanetary Aerial Systems Challenge 2021 Dhairya, ranked 21st in the competition which was made by the Team's Iteration 2.0

CONCLUSION :

While the team has made several strides towards its goals, we look forward to achieve our future endeavor!

Photo
Gallery

LITERATI - THE LITERARY CLUB

Force behind Literati - The Literary Club

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Staff In-charge
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INFORMATION TECHNOLOGY STAFF

CIVIL STAFF

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AI & DS AND CSE (DS) STAFF

OFFICE, EXAM, LIBRARY STAFF

CAREER COUNSELLING CELL

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BE ELECTRONICS & TELECOMMUNICATION

BE INSTRUMENTATION

BE COMPUTER

VIDYAVARDHINI
Vidyavardhini's
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BE INFORMATION TECHNOLOGY

BE CIVIL

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PLACED STUDENTS (EXTC, MECH, CILVIL)

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NPTEL

SPORTS COMMITTEE

VCET TOPPER

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C3

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BYTE, E-BYTE, WALL-BYTE

BIT, BYTE, GO

E-MECHTO

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KABADDI TEAM

GIRLS KABADDI TEAM

RESTAURANT & TAKEAWAY

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LIT FEST'22
FROM 30th MARCH TO 7th APRIL
EXTEMPORE on 31st MARCH
FACEOFF on 6th & 7th APRIL

#ZEAL 2022

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Hackathon 2021

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DESIGNED BY : # LITFAM

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