



# VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

# VISTA

2020

# *Reminiscence*





## Vision

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

## Mission

### We at VCET aim

- > To provide a 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

विद्यावर्धिनी...विद्यावर्धिनी...विद्यावर्धिनी....  
ज्ञानगंगा आली आमुच्या अंगणी  
विद्येथी 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 बीद झळकते तेजाने  
नये-नवे शिखर जिकुण्या, वाटचाल ही जोमाने  
हिरव्या स्वप्नांसाठी, करीते कष्टांची पेरणी  
समानतेचे सूत्र जाणते विद्यावर्धिनी ॥ २ ॥

कला, साहित्य-संस्कृती फुलतो अंकुर येथे  
सा-रे-ग-म-प-य-नी सात सुरांचा घुमतो एकसूर येथे  
भव्य क्रीडांगण, ग्रंथसंपदा, अनुभवांच्या खाणी  
गुरु-शिष्याचे नाते जाणते. विद्यावर्धिनी ॥ ३ ॥

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राष्ट्रक्याचा धागा विणते विद्यावर्धिनी ॥ ४ ॥

संकल्पना - प्राचार्य डॉ. अशोक भोंसले  
गीतकार - प्रा. डॉ. सखाराम डाखोरे  
समन्वयक - प्रा. डॉ. प्रदिप गुळभिले  
प्रा. डॉ. शत्रुघ्न फड

# Reminiscence

Reminiscence itself means "the act of recalling or narrating a past experience" so is our magazine this year filled with beautiful memories from the past. Memories are like home. Our mind may wander places but it always finds its way back.

As we marked the 25th year of our college we chose Reminiscence as a theme to show gratitude and admiration towards our institute. We decided to go back in time, cherish and relive all the past moments from our very own Zeal to Avahan and also the first of the magazines ever to be printed.

Reminiscence helps to feel better about the present and more hopeful about our future. Recalling the past means owning it and hence preserving ourselves.

It suggests that we all look back in time and see what we achieved, see where we made mistakes because in the race of moving forward we all forget to look back.

We all know that memories are timeless treasures of the heart. The greatest legacy that our seniors have left behind is of happy memories. We as a committee will like to carry this legacy forward and make some happy memories together.

Lastly I would like to conclude by putting you in the reader's seat and relive all our beautiful memories while reading out vista 2020, Reminiscence.

**-SMIT MASTER**  
**(STUDENT VISTA INCHARGE)**



**Late Padmashri H. G. Vartak**  
alias Bhausaheb Vartak  
Founder President of Vidyavardhini  
(1914 - 1998)



**Late Smt. Tarabai Vartak**  
Former President  
(1926 - 2008)



**Late Shri. Prataprai Khokhani**  
Former President  
(1933 - 2018)



## GOVERNING BODY

**Shri. Vikas N. Vartak**  
(President, Vidyavardhini)

**Shri. Shantaram B. Jadhav**  
(Vice-President, Vidyavardhini)

**Shri. Pandurang G. Naik**  
(Vice-President, Vidyavardhini)

**Shri. P. D. Kodolikor**  
(Vice-President, Vidyavardhini)

**Shri. Arun G. Vartak**  
(Chairman, Vidyavardhini)

**Shri. Madhukar N. Mohol**  
(Secretary, Vidyavardhini)

**Shri. Hasmukh M. Shah**  
(Treasurer, Vidyavardhini)

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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 come in full blossom and a carefully selected bouquet is presented in our very own VISTA 2020. In this part of our engineering education where we are constantly surrounded by technology & jargons where literary talent is seemingly a faint voice, Vista provides a gateway to express ones literary talent. There is so much to read, learn and cherish. It is the literary amalgamation of creativity and thoughts bundled in one publication : VISTA.

Since it's inception in 1994. Vidyavardhini's College of Engineering & Technology (VCET) has always strived to contribute to the cause of nation building through using 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 27th 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 is what we have learnt 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 few cultural, literary, social, entrepreneurship, competitions, professional, internships, recruitment, and so on. I feel very honoured 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 a formal education but is an excellent generic intellectual qualification to developed students as engineers. VCET engineers have contributed greatly to technology in the past and we are convinced that our Engineers will be in 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 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.

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

**Vikas N. Vartak**  
President, Vidhyavardhini





## From the Principal's Desk

Vidyavardhini's College of Engineering and Technology (VCET) has completed twenty six years. We are striving hard to fulfill the dreams of the founder members of Vidyavardhini.

For us career is the way we live our life. It includes everything...our thoughts beliefs...dreams imagination..aspirations .personality..attitude aptitude. So whenever an individual is planning career he should think of expanding himself ...learning new things. We groom our students accordingly.

This year we faced the COVID-19 challenge. VCET followed the guidelines and also successfully conducted the examinations in online mode. We are gearing up for placement activities in the pandemic situation. We have added employability assessment of students by AMCAT. We have established E yantra laboratory under guidance of Indian Institute of Technology Bombay.

At VCET we have created a learning culture , a friendly environment, that facilitates complete development of students. Our three pronged focus on knowledge, skills, and attitude aimed at transforming the XIIth pass students into a professional engineering graduate. It's our cherished motto to change in tandem with the changing requirements of the industry and nurture talent that will make us proud. It is in the same spirit we have laid each brick. We are certain that students life at VCET Campus will be academically and professionally fruitful.

This year institute has been accredited by National Assessment and Accreditation council ( NAAC). We have applied for NBA accreditation this year.

The VCET college magazine is a platform for the students to show case their literary talent. It is an expression of youth of this generation. It nurtures the creativity of the students. VCET conduct number of activities which throws different types of challenges to students. Those who take these challenges and participate are benefitted in their growth. VCET magazine is the output of the creativity and imagination our student who always think of expanding or growing.

I take this opportunity to acknowledge the sincere efforts put in by magazine committee in bringing this issue of " Vista". I also take this opportunity to acknowledge the support provided by Vidyavardhini's trustees for supporting growth activities for students.

With Best Regards

**Dr. Harish Vankudre**

**Principal, VCET**



## **From the Dean of Academics**

It gives me great pleasure that I present to you Vista' 20 as the academic dean. Firstly, hearty Congratulations to the entire team of Literati - The Literary Club for showing excellent team work in editing and compiling the cherishable memories of the academic year 2019-2020, irrespective of the pandemic.

VCET as an institution has always strived to impart technical education to students along with innovative and creative approaches. We believe that the young minds explore and innovate tremendously in the field of engineering, if they meet the answers to all their curiosities and interests, going ahead in this direction, we strengthen the industry interaction for students.

Our focus is to transform theoretical knowledge into practical and to build confidence of every student developing their personality to meet the requirements of industry with our newly developed Centre of Excellence of Siemens and Texas Instruments and choice based curriculum.

During the course of the pandemic, online education was introduced and students were able to continue their learning process with support from the institution and respective faculty members and proctors. Our academic results continue to be excellent and are presented in the departmental reports. Our exceptional and distinguished faculty and non teaching staff are to be credited for such outstanding results and students' centric approach.

The courses at VCET are fully focused on growth and development of each and every student. With the implementation of blended curriculum in the course of this pandemic, the teaching learning process remained as they were before. The same has been implemented by assigning a Proctor to every student who has the complete information of the students which includes their academics attendance and entire profile. Students from will offer Institute Level Electives starting next a program Interdisciplinary nature from other programs in their final year.

The Training and Placement Cell continued with their excellent work with the placement team at its best and the immense participation of students in Campus Aptitude Training and internships are worth appreciating.

VNC 2020 that is the VCET National Conference for technical advancement and social upliftment was conducted online this year and was an iconic event. Many personalities from different fields were invited to share their opinions and suggestions about the same. Students got a platform to present their papers and ideas and were rewarded with positive feedback and motivation. There was a release of various departmental newsletters and technical Magazines talking about the VNC.

By organizing and taking part in various co-curricular and technical activities through student branches and forums of E cell, IEEE, IETE, ISA, ISHRAE, CSI etc and extracurricular activities students can follow their curiosity to explore new things encounter new ideas and opinions and discover their own capabilities.

**Dr. Vikas Gupta**

**Dean-Academics**



## **From the Staff-Incharge Literati Committee**

First and foremost, I would like to pen down many heartfelt thanks to our Principal, Former Magazine In charge and other staff who have backed the decision of giving me this opportunity to lead the Magazine committee. It was an amazing experience to lead the remarkable committee.

Magazine committee underwent some consequential changes first being the name changed to 'Literati' committee. This change was positively welcomed by each and every individual. Another pivotal change was the introduction of Literature festival in the institution to enhance, encourage and underline the importance of literature and we proudly quote that the committee could execute it successfully.

The 'Lit Fest' began with a new and fresh event Extempore. The spectacular speeches by the participants made the audience awestruck. Faceoff 8, which is a flagship event of the committee beheld debates, which were full of wit and exuberant vitality, as usual. The dexterous participants and esteemed panel of judges of both the events were truly laudable. I take this opportunity to thank to each one of them.

The 'Lit Fest' also included some online events like Story completion, Look into a book, Fan Fiction which too saw an over whelming response. We plan to make it even grander in the coming years.

The theme for this year's magazine was 'Reminiscence' which too took the writers down the memory lane and made them pen down their beautiful memories on paper. We received an over whelming response with numerous articles and we are grateful to them for helping us in successful compilation of our annual Magazine 'Vista'

I would like to thank our Management, Principal, Dean, HODs, Registrar, Committee In charges & Staff members for their persistent support, encouragement, and guidance. I would like to thank entire student fraternity who have contributed in various capacities from organizing to participating to writing articles for the Magazine.

I would like to thank and congratulate the Magazine Secretary, Ms. Aishwarya Gawade & team, Deputy M.S. Mr. Smit Master. I feel lucky and consider it my honor to lead such an energetic, dramatic & phenomenal team. Three cheers to the team who despite challenges have succeeded in pushing the envelopes by introducing E-Magazine for the first time ever in the history of VCET.

**Prof. Swati Varma**  
Staff Incharge,  
Literati Committee



## **From Chairperson Literati Committee**

Hello all, I am pleased with the opportunity to address as the chairperson of Literati – The Literary Club. I have been a part of the committee for over three years with an overwhelming journey. The entire committee was and still is like a family to me. From all the seniors that I have seen leading the committee to the ones I have passed on my responsibilities to.

This year has been very special to our committee as the committee was reformed from 'The Magazine Committee' to 'Literati – The Literary Club', signifying that the committee is wholly dedicated to literature and we are so thankful that everyone has welcomed this change with open arms and abundant support.

This year as we are celebrating the 25th year of our respected college, we decided to dedicate Vista 2020's theme to it. This year's theme is 'Reminiscence' meaning the act of remembering, talking or writing about events or experiences remembered from the past. We encouraged everyone to write about memories

We introduced 'Lit Fest' i.e. a Literature Fest. We kick started the Lit Fest with a new event which is Unscripted – Extempore competition. It was a departmental event where participants think so quickly on their feet. Another new addition to our event list was 'Lit Events' which included online events like Story Completion, Fan Fiction writing and Look into the Book. These events allowed students to participate throughout the duration of Lit Fest via online submissions. To end with our events, like every year, the most awaited and successful event was our interdepartmental debate competition Face-off 8.0 and I must say like every year it was a nail biter. Due to measures taken against Covid -19 we sadly could not continue with our inter College Faceoff.

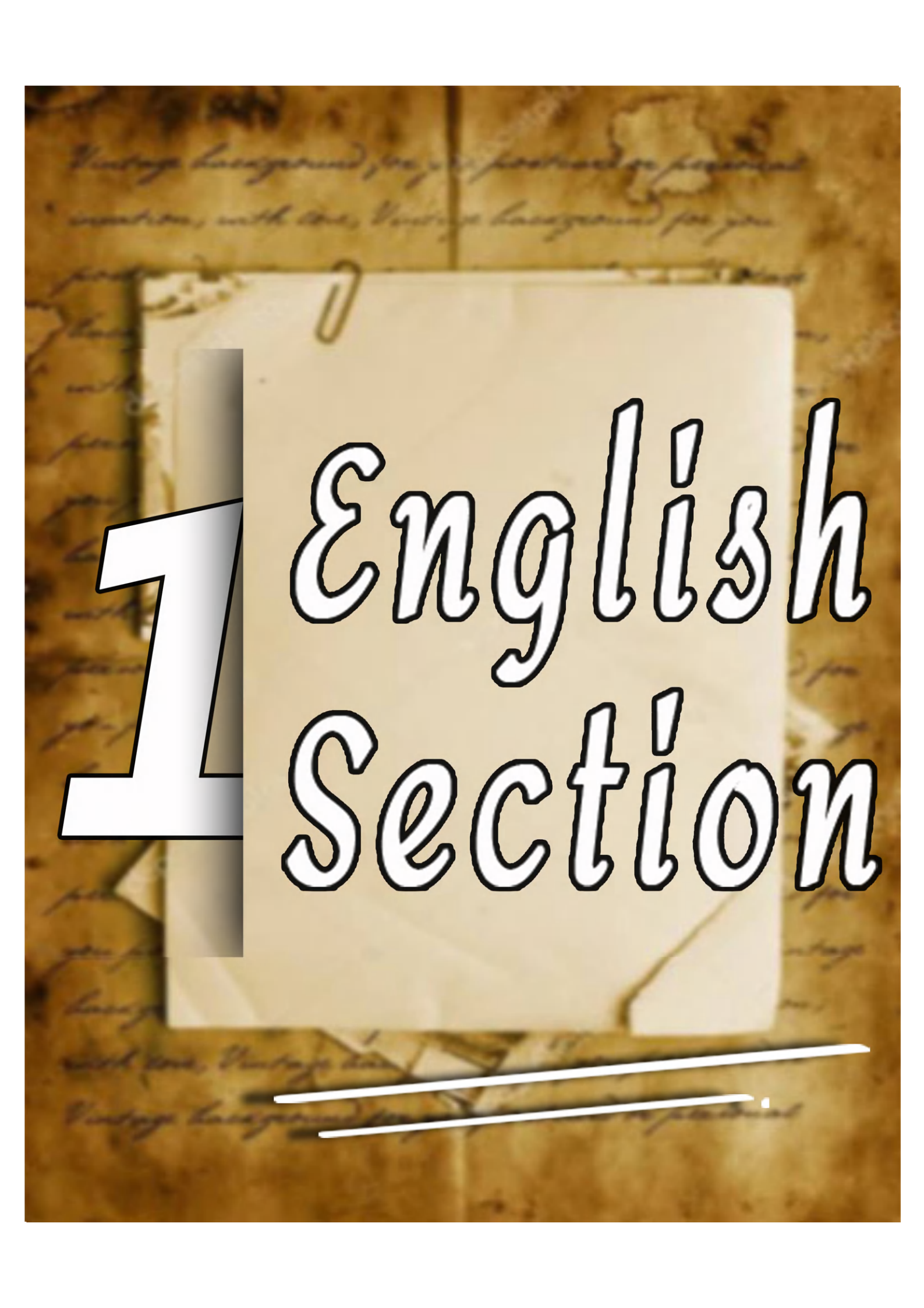
But the lockdown couldn't stop our energetic spirits. Our committee hosted VCET's first ever podcast. The guests were very successful people from different professions like acting, medical, blogging and writing. The speakers shared their stories and inspired our students and many other listeners in the depressing times of pandemic.

I distinctly remember interviewing for committee with a friend with the motive of socializing more and trying to extend our little introvert comfort zone. We never would have thought we could make it so far. This committee has taught me many valuable lessons and skills. From speaking and entertaining a crowd to planning events from scratch, from managing hospitality in the events to printing of thousands of magazines, from handling a stressed situation to enjoying a successful event and I am very thankful.

I would like to thank our honourable principal sir Dr. Harish Vankudre, our former staff in-charge Dr. Pradip Gulbhile and our staff in-charge Prof. Swati Varma for their support and guidance. Also a special thanks to my Co-Chairperson Kavya Nair, Pranav Bhosale, Neha Dere, treasurer Himanshu Wadekar and other BE members for being and leading the committee on the path of success. Lastly huge thanks to all the TE, SE and FE members, without whom the journey wouldn't mean this much.

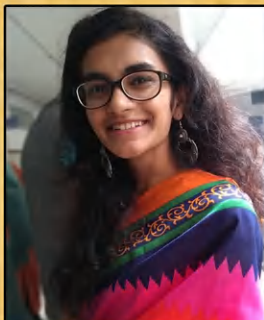
**Aishwarya Gawade**

**Chairperson, Literati Committee**



# 1 English Section

## EDITORIAL



*"I've always been fascinated by memory and dreams because they are both completely our own. No one else has the same memories. No one has the same dreams." -Lois Lowry*

"REMINISCENCE" is defined by the English dictionary as 'Indulging in enjoyable recollection of past events', which in common terms means memories. Memories play an important role in our lives, whether good or bad, we always learn and hold onto them.

With college being the place where students tend to make most of their memories that they carry forever with them, we at the Literary Club have come up with "Reminiscence" as our theme for the academic year 2019-20.

I am thrilled to present before you an insight of the lovely memories the student's of VCET have made over the years.

Crafting this year's Vista has been a beautiful experience for each one of us, with each article, poem and snippet we receive, being better than the previous one. Vista is not just a magazine, it's a physical representation of our memories on paper in the form of poems, articles, photos and even drawings. This year has been an adventurous one and to look back at it with a smile we have our annual magazine.

On behalf of the entire team at Literati Club, we would like to thank our honourable principal Dr. Harish Vankudre, our staff incharge Mrs. Swati Verma for their constant support and inspirational guidance. A heartfelt gratitude to our Chairperson Ms. Aishwarya Gawade for her support. Huge thanks to our Co-Chairperson Ms. Kavya Nair, Mr. Pranav Bhosale and Ms. Neha Dere, our Treasurer Mr. Himanshu Wadekar, our sub editors Rohit Sawant and Faiz Sheikh.

And lastly, Thank You to all students for an outstanding response and enthusiasm, to fill our mailbox with their creativity.

I hope you take this magazine as a memorandum and always read it to get a taste of nostalgia.

Happy reading !

**Srishti R. Shukla**  
TE EXTC

## TUNNEL OF REMINISCENCE



A loud, firm knock and someone walks in right through the door,

I look at it with wet eyes and throat so sore.  
The faint figure introduces itself as 'MEMORIES',  
Comes closer to me as though my soul it seizes.

A vibrant flash! Now I am at a tunnel's entrance,  
5 y/o 'me' is calling me in, to relive the moments I lived once.  
Wanting to turn back I decide to go forward instead,  
Entirely unaware of what was waiting for me ahead.

For a tunnel, it's quite bright inside here,  
I see my Dad teaching little me, 'How to face my fear'.  
Mom is standing there too smiling with pride,  
As she is preparing me for Life's unpredictable stride.

Curious to see more, a little further I walk,  
I stop there as I come across a huge rock.  
I push it to the side with all my might,  
All in vain, it's darker here than the darkest night!

I hear someone cry with pain in their heart,  
It's no one but 13 y/o me looking at my life falling apart!  
My heart is now aching and I can't take this anymore,  
For I am done with uncalled 'Mission Explore'.

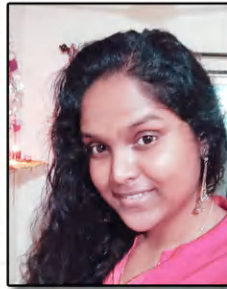
I run and run, to the end of the tunnel I reach,  
The faint figure is waiting there for it has got a few lessons to teach.  
It says, "In search of lost people we walk down the memory lane,  
Hoping this is only where we may get to see them again.

What we don't tend to realize is no matter where we stay,  
They always walk by our side to show us the way.  
We still have happy old times to reminisce,  
For every time they made us smile is now no less than a pure bliss."

With this the figure dispersed into thin air,  
Back in my room, I'm staring at the photographs left there.  
Wiping my tears, I realize I've learnt a lesson worth a ton-  
'THE BEST THING ABOUT A MEMORY IS SIMPLY MAKING ONE!'

**Vaidehi Ashok Sawant**  
(SE CIVIL)

## SOME PEOPLE



People come and people go  
Like the fleeting passage of a bird  
But some people stay in our hearts  
Unknowingly, we place them first, second and third

As children we keep our parents first  
Their love would mean everything to us  
Their warm hugs and kind words would be our hiding place  
As we grow, there starts all the fuss

But wait that's not what everyone gets  
Many have different childhoods to narrate  
They do not know what affection is  
People call it destiny or fate

They keep thinking "Why is father beating me?"  
For them a meal a day would suffice  
Some people judge and walk away  
While some remain, mocking their plight



And when as kids we make friends  
We first ask "What's your favourite colour?"  
Then we become sour to the same person  
Because our parents said "That child is duller!"

Some of them never made friends as kids  
They never had the luxury  
Lost in thoughts and wary  
Their minds filled with "Will they accept me?"

When teenage came, we were introduced  
To a wide range of emotions  
Some made us dance in joy  
While some left us battered and bruised

As adults when we look back  
To all the things we did  
We cry for all the happy and sad moments  
We laugh at ourselves for being so stupid

Some leave a mark on our hearts  
For being the very reason of our darkest days  
Not realizing that God has his plans  
Unknown to human are his ways

Some people end up being  
The very reason of our smiles  
We are prepared to fight a mountain for them  
Just so they stay with you for a while

The journey of life continues  
The list of people we encounter keeps going  
But deep down in our hearts and minds  
The memories keep growing

**Maria Matthew  
(TE COMPS)**

## Dreams!



You work hard in a day to get a sound sleep  
You try to forget the bad and give yourself a leap  
At night when you keep your head on the pillow soft and cream,

Do you really have good dreams?  
"Do good and good will come back to you" they say  
But for that good, I wonder, how long we have to stay?  
Waiting and waiting our life for it to come back...  
But that goodness on its way to us always lacks!

Then how will we get good dreams? Questions my mind  
Can they come to us if we are enough kind?  
Or just by caring a bit for our loved ones  
Or maybe by giving them happiness in tonnes.

Dreams are imagination, which can be turned to real  
They are ones wish list before his funeral  
Find your dreams then find a way to win them  
May your joy on achieving them overwhelm..!

**Mufaddal Kagalwala**  
**(BE MECH A)**

## MEMORIES



She came in white,  
Only to bid goodbye.  
But I didn't show much interest,  
I just wanted to get rid of the burden.  
The typical formalities I showed,  
Wished she'd walk away faster than before.  
Just didn't want to make her cry,  
So cracked a lame joke before we parted by.  
There were no sweet words or lies,  
Only the bitter truth and sourness in our eyes.  
Who would've known our last meet would be so,  
Only words unsaid, untold and left to become memories  
and grow old.

**Srishti Shukla**  
(TE EXTC)

## Is Judging really important?



I was out with my friend in a café having our daily conversation and my friend saw a young boy sitting alone in one corner and said "Look at him he is such a lonely person hanging out alone. He might not have any friends to hang out with." It seemed weird to him that he was alone. I wanted to tell my friend that it was ok to visit a café alone it was not at all weird we need to stop judging people around.

One can travel solo to different parts of the world, but feel uncomfortable doing the same in your own city in front of known people. You all talk about "me time" and about forging a connection with your inner self accepting your own company.

And then, when some actually have the guts and are mature enough to do it, it becomes necessary to judge them to label them as loners and to have pity on them thinking that they are dying for some company. As all these things were going in my mind i pondered upon this thought - "Is judging really important?" I sat there quietly without uttering a word.

Now you would say that we need to size up people in order to trust them. But there's a huge difference between sizing up and judging them and if you fail to understand that, there is something seriously wrong with you. And you need change that attitude as soon as possible. When you call someone discreet or secretive it reflects your values and ethics. And why would you call a person anything at all. Tolerance and minding our own business is something that one really needs to learn in this generation.

The problem is that we do not think that how other person feels as long as we have something to gossip about. But as soon as you become the victim you start crying about how unjust and insensitive the world is. So why not be neutral and accept someone as they are ? Is it so difficult to overlook the flaws and see the beauty within? Do you not realise the beauty ? It is ok if one puts ten stories on Instagram in a single day, it is ok if one snaps what he eats, it is ok when some add WhatsApp stories, it is ok when someone wears what they want to and are comfortable in.

Lets stop judging and let people do what they want to do. Be good to every one and if you find that you cannot be with a particular person without criticising them, walk away politely. This is the simplest of life lesson and yet I feel that we haven't been able to apply it truly: 'Live and let live!'

**Smit Master**  
(TE IT)

## Affection

Strong fondness for something,  
Which is similar to liking.  
May be living or non living creature,  
It is said to be an amore.  
Feeling of concern for the special one,  
It is the only emotion.  
Friendliness ,tenderness,  
All turns into our weakness or strength.  
Soft spot in our heart for the crush,  
Love for our guardians,  
Attachment with a good will friend,  
Warmth with our toys,  
Sentiment towards animals,  
Desire to win,  
Devotion towards our passion,  
These are all affection and be the best part of having an ardor!



**Nivedita Bhore**  
(BE IT)

## Beauty lies within us!



Beauty depends upon our personality.  
Beauty is the way we behave and the way we treat others.

Beauty is not just the matter of appearance  
it's also expressed depending on our nature.

Beauty brings joy and we get joy  
only when we are surrounded by good people  
and alluring environment.

Beauty is peace.

Beauty is satisfaction.

Beauty is a special aroma of life.

Beauty does not always demands accuracy it sometimes  
must have desire to be affectionate.

Beauty can be attained by creating beautiful memories.

Beauty is having a sacred heart.

Each individual must inculcate beauty in themselves  
and spread this aroma.

Beauty can be acquired by setting a role model for everyone  
by being kind and helpful.

People tend to forget these concepts while judging a person and treat them  
according to their appearance but it is well said that  
APPEARANCES ARE DECEPTIVE.

**Nivedita Bhoire**  
**(BE IT)**

## Change is necessary.



Reality has always been different from what we've perceived or predicted. Most of us are so engrossed in the process of figuring our thing out that we often tend to forget that there are different plans waiting for us. After a lot of planning, comes execution and it's after this stage that we get the shot of reality right in our face.

The thing is that humans are really fragile beings that are packed with a lot of chemicals or rather, emotions. When we look at something, the basic instinct of whether this qualifies good or bad kicks in automatically, and the reason for this is that deep down, we are, binary creatures. If something pleases us, the rush of dopamine makes us happy, thereby qualifying something as happy, or good. On the other hand, stress is driven by the chemical called cortisol. That makes something look bad. That's just like binary, either a 0, or a 1.

We're so comfortable with our basic or ourselves that we forget that as humans we're bound to develop and cultivate. When exposed to something unusual that doesn't fit our framework of safe, we go away. We go away because we do not like the thought of it, we go away because we are afraid that it might threaten our usual, unproductive, leisure-based environment.

Life is an intricate subject. It's not supposed to be monotonous, but it's supposed to be adaptive. Most of us are pretty stubborn to change. Agree it or not, if there's no change, if there's no varying, then it's just agreeing to the default and letting yourself deny the opportunity to explore. There's tons of things to learn, many things to enjoy, if only you allow yourself.

**ABDULMATEEN PITODIA  
(TE EXTC)**

## GRATITUDE!!!



### Story of Mohan

Later yesterday when I was on platform waiting for my train to arrive, I saw a family getting off from train with three kids. Their parents were standing while waiting for the another train to board and collect some money for their daily bread. While this kid sat on the platform and the other two were playing around eventually. Let's name the boy in the picture Mohan.

Mohan look quite, tired, fatigued and hungry. Meanwhile he asked his younger brother for some money and his brother gave him two coins of 5 rupees. By which he bought two packets of Good Day biscuit from the nearby canteen. He brought the biscuits and came back to the same place, sat down and torn the packet and transfer the biscuits into another hand and then filled the empty packet with water and started to dip the biscuit one by one and enjoyed them gracefully. While he was about to consume his last biscuit the train arrived on which they all were going to board. Then, in hurry he eat those biscuit and then drink water from the packet and boarded in the general compartment with his siblings. So, why did I share this with you???

Gratitude!!!

Majority of us are born in a middle class family and yet are not happy with our own life. But when we look around life is extremely tougher and uneven for the others. According to 2011 National Census of India around 10.1 million children aged from 5 to 14 are a great target of child labour. Mohan is just one of them. Surprisingly these kids might not even have the idea about what they are doing and they always might be thinking that their life is just meant to be spend like that. For them this is life!!!

So if we ever took a minute from our life and realise how surrounding is all about will be so thankful that what a precious life god has given us. Even in the difficult situations our parents tend to provide us each and everything, right from our childhood and that's gratitude. It is said that gratitude is the most healthiest human emotion. The more gratitude we have for our valuable things the more things will be provided us by our faith. So this was a small that I found in my life which is the most important according to me and hence I thought to share with u.

**Vanashree Gaikwad  
(SE IT)**

## Night Light

With time the night gets darker,  
With night the moon gets brighter.  
But the moonlight is nowhere to be found,  
As the darkness sleeps on the ground.  
The roads are empty but filled with silence,  
There is no one around, no chaos, no violence.  
These roads go to everywhere just by themselves,  
But silence travels silently with no footsteps.  
The leaves lose its liveliness,  
Still and like a winter glass they freeze.  
The trees don't move even a bit,  
As on its branch a bird sleeps.  
Darkness shines brighter than light,  
As it makes everything brighter at night.  
The ground becomes a giant mirror and reflects,  
The darkness from the night sky to itself.  
It hopes the sky never changes,  
But the moon leaves taking away the darkness.  
A light is seen revealing the secrets of the magical night,  
And a human is born appreciating the light.

**Anonymous  
(SE IT)**



## MEEKNESS AMONG US



Most of the time we are all well on the way, however in the intervening time it all gets uninteresting so deliberately pulls back and distorts our cool running .When you aren't close, you get jealous of some other and you're as precise as he or she is. Why no longer? And she does not look again to do desirable things to others. It can simplest be controlled with the aid of her management. By doing this, we can forestall the attachment of the mind by way of giving it the right time.

Even in case you say some thing like this, you could now not apprehend what it actually is! It's better to have a person study from yourself if the well-run spoils! Come on man! So a good deal work has been performed to rest it, nothing will be finished if it's far relaxed! Even a little relaxation to the body! Then we get a bit relaxed. In brand new digital age, if some thing is going to work, it will be on cell and now not working. Relaxation, even on cellular! Savior, if you spend time well and obey nicely each day, your mind will no longer adjust. If the drift of time instruments is nicely flowed, the mood may be reduced.

There is nothing to be executed however the problem and nothing to do however the horse race behind it. I cross and start right, but slowly my self-esteem starts to say no or, say, hobby. The motive for this decline in hobby is your over-wondering intellect. Oh, that's what I did! I can do it Simple isnt any problem, though. Even if we emerge as proficient in practicing something, our lightness is involved. How laziness and friendliness are intertwined. The instance given to no longer doing some thing is laziness, however Meiphan is basically meant to be self-dealing .Laziness is a subset, even as Megan is a superset. We give excuses for now not doing something, but God knows when it will grow to be an alpaca! Meipen should be of origin but no longer excessive.

On the alternative hand, sometimes because of herbal causes, disasters, or a disease, we won't have the potential to do the proper thing due to our day by day routine. If I can control all of this and accept what's rightfully received, then I sense that it is in our quality interests to do so.

**Vishwaraj Khanderao**  
**(TE IT)**

## Rich at Heart



What is rich at heart?

Do we all have a rich heart?

Honestly, Most of us are not rich at heart.

Why? What is lacking?

We eat enough nutrients and vitamins for a healthy heart but,

What do we do for a happy rich heart?

Our heart is always full of love, blissful, compassionate, selfless, and calm and qualm sometimes.

One of the best exercises for rich heart is showing gratitude and helping even though you get nothing in return!

Why is it so difficult to give love in exchange of nothing or hatred?

Because,

We all know that love is precious and we don't want to give this precious gift to someone who gives nothing or hate in exchange.

If you ever feel like this, then remember, the ocean has millions of gallons of water.

It doesn't matter whether someone takes one or two pint.

So do not overthink and give love it won't cost you anything because you have abundance of it.

You won't get frustrated or tired of showing love as an ocean doesn't get tired by serving us.

But you become impatient and ruffled by giving hatred.  
So the simple mantra is to drink a glass full of  
gratitude every morning, a teaspoon of peace  
and pill of patience and self-belief.  
Love for Love and hate for hate is too old.  
Let's make new eternal trend:  
Love for Love and Love for hate.

**Pawan Ugalmugale**  
**(TE EXTC)**

## Silent Tears...

"I think the brain is essentially a computer and consciousness is like a computer program. It will cease to run when the computer is turned off. Theoretically, it could be re-created on a neural network, but that would be very difficult, as it would require all one's memories". These few words said by Stephen Hawking is probably what is going on in the minds of all Final Year Engineering Students just like me, while you are enjoying the happiest days of your life sitting and reading this article. Trust me when I say, this is the happiest golden period of your life. Once I was doing the same as what you all are doing currently, even I used to get excited to read articles in the magazine, bunk lectures, practicals, cultural fests, trying hard to complete the never ending assignments, submissions and what not!!!

And suddenly I woke up from my dream run post three years to realise I have almost reached the end of this golden phase, Final Year had arrived and it pushed me hard to prepare for my placements which is anytime the toughest phase of an Engineering career considering the increasing number of Engineering graduates Indian colleges are manufacturing and the limited number of vacancies in the global market. So now that the final journey has begun, everyone is now about to end the race which they started three years down the line, on a high note by getting their best. In the meanwhile, the Final Year project was also knocking our door with our guides already warning us of submission deadlines. We somehow managed to complete the requirements and jump on to the last few days of college that is Final Semester of Engineering. This was a bittersweet moment and everyone had emotions running high. No matter what, all Engineers wait for this Final Semester, these final days because this journey wasn't easy, it was a perfect blend of hardships, fun, laughter, sleepless nights, exams and all the more that we did is not everyone's cup of tea.

## Silent Tears...

I've always been fascinated by memories and dreams because they are both completely our own. No one else has the same memories. No one has the same dreams. Neither can we share them with anyone. But this was the first time when I realised that everyone amongst us share the same memory, same thoughts coming up. Everyone wished to go back to that First Year where we came as a curious teenager and now have become an Engineer who's going to define his/her own path for success. As we say memories are timeless treasures of the heart, it started proving its worth. We were left with teary eyes just by thinking that we are not going to meet daily. We students think controlling our laughter in a class full of pin-drop silence is the most challenging thing to do, little do we realize controlling our tears on the last day would be million times harder. Soon in the near-future, college would be a mere building for us, no doubt passing by this second home will recollect all our memories, but there's no comeback to it.

No matter how much you hate college, you will miss it when you leave. I know some of you might be laughing at this but once you reach your final semester each word will have its own importance, own set of feelings, emotions. Despite the learning pressure and demand of improvement, an engineer is able to relish the happiest moments of life. This is what we guys thought and were eagerly waiting for one of our last memorable days, that's the farewell which was on its way but what my past experiences taught me was one fundamental thing- Life is unpredictable. And so came the news of initially schools, colleges & eventually the entire nation would go through a Lockdown due to the outbreak of a pandemic globally. This Lockdown showed us a trailer of what we would be going through post completion of graduation and you guys also had a pinch of it in your plate a bit earlier than scheduled. There was a riot of emotions going inside. To be sad? Or to be happy? Or both? We didn't know. We just went with the flow & started preparing for the future. On one hand there was a graduation ceremony awaiting us post pandemic while on the other your friends for one last time. I can't believe it. It's all actually happening. Finally, it is both an end to the fun filled days of our student years and also a beginning of warm memories of the past and big dreams for the future. This golden period better equips you for all the challenges you'll face in life and creates a strong foundation of knowledge.

Signing off with love and light,

**Kritika Sujay Rao**  
**(BE COMPS)**

## The invisible enemy



An enemy is a person who actively opposes someone or something and makes no mistake. Humanity is facing it's worst enemy. Throughout the history there are only handful of events that can match the magnitude of this pandemic. "There have been as many plagues as wars in history, yet plagues and wars take people equally by surprise" That's Albert Camus in his book *The plague* which I'll get to later. But the quote is true, there is no possible way to predict something like this in a long run but being prepared is what's expected from people and nations as well, but to the contrary very few countries are handling it well.

I don't know what the future holds, and I'm ill-equipped to even try to predict it but, we are in a very crucial time right now, social isolation such as this can only be witnessed once in a lifetime, if not ever. This means all the aspects of society may or may not be pushed to their extremes and evidently they are. It also shows the obvious lack in the "institutions" we so cherishly trust. The long lasting effect of this pandemic is unimaginable, but it will surely affect each and everyone of us in ways we might never know. People are more vigilant than ever, the increase in anxiety can lead to hysteria; and in the internet age misinformation has added fuel to the fire. Apparently everyone wants to be an expert, and it is our nature to do so. To understand why things happen. The line between skepticism and conspiracies may be blurred. Distrust in the system or increase in support of the system may increase.

"Human beings need three basic things in order to be content: they need to feel competent at what they do; they need to feel authentic in their lives; and they need to feel connected to others. These values are considered "intrinsic" to human happiness and far outweigh "extrinsic" values such as beauty, money and status. Writes Sebastian Junger in his book 'Tribe'.

Although the book is about homecoming, veterans dealing with PTSD and how the evolving society has alienated man but it has many anecdotes that can be used to further understand the human psyche during current times. He is right about human nature and this pandemic has hindered all of those three. Throughout his book he explains how when a catastrophe strikes a nation the people fall in a tribal mindset. All the resources are shared with each other and the society becomes highly egalitarian.

But that's not the case here, as we are not facing a common enemy (technically it is), we're facing each other. In the opening chapter he writes, "As modern society reduced the role of community, it simultaneously elevated the role of authority." It's true in our case, as governments stumble to control the outbreak, they strive for more power and momentarily it helps but in the long run it suppresses privacy and liberty of people.

The best example being patriot law after 11/9 that helped government spy on citizens. There is some weight to this argument backed by facts but it's just a speculation. The other biggest challenge will be to stabilize the global economy. Apart from this on a personal level people can improve in a lot of areas. Or as Nassim Taleb puts it "Some things benefit from shocks; they thrive and grow when exposed to volatility, randomness, disorder, and stressors and love adventure, risk, and uncertainty."

Now let's look into the psychological effects and how to deal with this pandemic. Albert Camus in his book 'The plague' tells a similar story in which a plague has struck the town of Oran, a small town on the coast of Algiers. The people live a modern busy life and has never fathomed the idea of facing a plague. Camus writes "Ah! If only it had been an earthquake! A good shake and that's it... One counts the dead, one counts the living and the whole thing's over and done with. But this rotten bastard of a disease!"

Even those who don't have it, carry it in their hearts." Denial is the common reaction to disease, and here lies the strength of disease: it condemns one to live in the present. Without the warm glow of the past or the glittery promise of the future, one is resigned to march to the dull drumbeat of the present, making way from day to day, exhausted but unwilling to succumb.

In times like these, one prefers denial because it allows for hope, even though it may be entirely baseless. The plague sets a narrative in which people are forced to make sense of their current situation.

Two people are put into perspective, one a priest of a crowded church who pushes the idea that, this calamity is justified and god has punished man for his sins, and the other man is Dr Bernard Rieux, who tries to make sense with people, to be positive but not underestimate the effects of the plague, "What we learn in a time of pestilence ... there are more things to admire in men than to despise." Such are the words of Dr Bernard. Camus forces us to take a hard look at our lives and remember the fact that an epidemic like this may fall anytime. In his closing remarks Camus makes a statement that holds true for our current situation and may be the way to deal with it:

It's a matter of common decency. That's an idea which may make some people smile, but the only means of fighting a plague is - common decency.

**Faiz Shaikh**  
**(SE MECH)**

## Love Yourself

Almighty Created all of us in different ways. We all have different color, shape, height, etc. But how many of you are happy with that? According to me only %2 people are happy with what they have naturally. What about remaining %98? They think they don't have enough and because of this mindset they are never happy. They keep on thinking that there's something missing in them, which is absolutely wrong. Love the way you are. He created all of us differently so that each one of us will be different. But you are copying others and losing the "Real You". Everyone here wants to look like others or want to follow the footsteps of others, is that right? No, Not at all. Be you, Be the Real You. All of us have some or the other flaws. No one is flawless. Don't mark your flaws as weakness, make them as your strength. The day you'll start looking at them as strength is the day you'll start loving your flaws, you'll start loving yourself.

Don't look at others for motivation, make yourself your ideal. Indeed each one of us is naturally different. Loving oneself needs so much potential and strength, not everyone can deal with that. If you're doing so, you are damn fortunate! Accept your flaws, convert them into your greatest strength. Love your life however it is. Every moment is a blessing. Every misunderstanding is a blessing. Every rejection is a blessing. Every failure is a blessing. Try to see the bright side. Trust him. Whatever happens, just keep patience and have faith. Love yourself, Be yourself!

**I.M.**

## The Engineer Engineering Is Waiting For...

If Engineering is not only your dream but passion,  
And you not only work for seeking attention,  
If you'll not bother whether it's day or night,  
And you see engineering as a moon light.  
Then you might be the Engineer Engineering is waiting for.....

If you're true with your commitment,  
And you're ready to accept aligned punishment.  
If you're studying with ecstasy and fun,  
And not because "your shoulder is kept within someone's gun".  
Then you might be the Engineer Engineering is waiting for.....

If you really love engineering knowing it's entire stuff,  
And you can handle situation no matter how much it's tough.  
If assignments and practicals are no more headache,  
And you're a good learner along with a delightful stomachache.  
Then you might be the Engineer Engineering is waiting for....

No matter if you're outspoken or introvert or combination,  
You should know how to maintain someone's dignification,  
If you'll not grief when any unwanted thing happen,  
And will remain positive by making it your useful weapon  
Then you might be the Engineer Engineering is waiting for.....

If you no more believe in inferior and superior,  
And you're making yourself warrior and not worrier.  
If defeat teaches you lesson and victory gives you strength,  
And you're not afraid of upcoming consequence.  
Then you might be the Engineer Engineering is waiting for.....

If you're not a nerd but have skills,  
And you're ready to climb up enthusiastically all those Hills.  
If you not only learn for job appointment,  
And want to make your country out of embarrassment.  
If you're using you're brain to benefit others,  
And you're working on what's going to help Parents, childrens and elders  
Yes you're the Engineer Engineering is waiting for!!!.....

I.M.



## What LockDown Taught Us?

A poster which went up across the East Midlands bearing Extinction Rebellion's logo, bore a message stating "Corona is the cure, humans are the disease". It's what humans are doing that has changed, we've stopped consuming, stopped moving around, stopped with needless journeys and focussed our ability to work in our own homes. Businesses have temporarily closed their doors, town centres and retail parks are desolate, manufacturing has reduced to the essentials. We as people are perhaps realising we need less to live, in fact maybe what we view as our previous status quo is not where we need to return to.

The sound of traffic passing my open window has all disappeared, occasional delivery vehicles are pretty much limited to those supplying supermarkets and other grocery shops, and a large proportion of people are now able to work from home when we've previously been told that this wouldn't be possible. Others, less fortunate, are unable to work at all. These reduced levels of transport has seen a reduction in air pollution across India, it may be that if we maintain lower air pollution levels post this pandemic we may save more lives through cleaner air than those lost to the virus.

So where does this leave us? Where do we see ourselves after this lockdown? What are we missing? Using the only option currently available to me to ask a broad spectrum of people, I turned to social media, and the answers although different in some aspects were all similar in others. Seeing friends and family, hugs and human contact, going out to the countryside or the beach, going to listen to live music, going to watch football, going out for a meal, going to the local pub, having some time alone, or being able to access some services for health and wellbeing.

The singles are practicing the art of virtual dating, while couples who lost love between them are regaining it by spending quality time and the ones who aren't together are realising the worth of their spouse, and those who thrive on socialising go to virtual pub or games nights. None of us when asked what we're looking forward to; say going to the shops, buying that new thing, taking a holiday or indulging in a new luxury.

We all want that little bit of humanity that has been removed, being able to stretch our legs and be with other people. It's this small thing that we need to remember when we come out of our lockdowns, see each other again, smile, laugh, hug and kiss friends or strangers that this is what we live for, not what is being sold to us on a daily basis by big companies.

As once we're out of lockdown the advertising campaigns will begin, the offers and deals will be tempting, shops and businesses need our custom to survive, and it's up to us whom we patronise.

**Kritika Sujay Rao**  
**(BE COMPS)**

## The Engineer's Diary...

It was a beautiful sunny morning. I woke up and had my tea and breakfast; The nervousness in me was tempting me not to have the tea or the breakfast as it was a big day of my life, Board's result was going to be declared! When the result was declared, I wasn't satisfied with the marks. It was %84.44 (yes enough to get enrolled to an engineering college). And, I finally got the admission.

An engineer's story is no less than a book of mystery, craziness, broken hearts, moments of party! Moments of sadness and above all, moments of submissions and external viva! (trust me on that, they may ask you such questions that can give you nightmares!). An engineer goes through all these moments as easily as a walk in the park (Jurassic park to be precise!). An average engineering student finishes his engineering in three years, but some wish to master the subjects, hence, they may take even double the time! Some engineers feel that the faculty is trying to avenge grudges on them (think about it guys, what are they going to get by doing this? Did you borrow money from them and are refusing to give the money back?).

The faculties of an engineering college can be as helpful as ever and give you the teachings of a lifetime! Every faculty in my college has helped in one or the other way! If I hadn't gone to speak to my faculty about the problems I was facing, I wouldn't be trying to become a better person now! If my faculty hadn't given me the subject book, knowing that I wasn't able to afford the book, I wouldn't have passed in that subject!

A general engineering student has that special talent of not studying till the very end and then running to the book stores searching for the books. Some don't even submit their files till the defaulter's list is declared! Some students say they are going for lunch and never return!

So you see, an engineer's life has various deviations, u-turns, drops and increments like a graph! Being an engineer is not easy as it seems, it takes will power and dedication!

**Dhaduk Mayurbhai Arjanbhai  
(SE-INSTRU)**

## A Love Letter to Maggi



Dear Maggi,

I don't know where to start and how to start writing this letter to you. Our love started the day when I saw a YouTube video on "How to make Maggi within 2 minutes". I still remember how frustrated I was when I saw a comment Maggie with a heart and I replied it is 'Maggi' and not 'Maggie'!

Like every Indian love story, you were introduced to me by my parents and then when we got attached they forcefully separated us. Our story would be far better than any William Shakespeare novels, you know why? Shakespeare's hit romantic novel 'Romeo and Juliet' never gets a chance to unite. But us, even after the ban that was imposed, the destiny still united us. I still remember how much I cried the day I fractured my leg. But the day you were banned, I was so devastated that I cannot even put into words how bad I felt.

You are so good by heart that everyone just craves for you. You are the ultimate hope for any hostellers. Every 3:00 a.m. hunger's ultimate food is just you. You are the best food for people who just learn cooking. You are the reason why I call myself a MasterChef. Well in my defence adding cheese and vegetables makes me a chef and I'm bit proud to say this. I find it very cool to try out new recipes on you every time.

I sometimes regret adding a bit more water and making you soupy, but, what I hate the most is when you become soggy in my tiffin. I'm quite sure everyone at one point would have definitely complained about this. But you know what, that's you. So never mind, I will still love the way you are. Have you heard of ray of hope, it's the same I feel when I eat Maggi instead of 'Tinde ki Sabzi'. It gives me butterflies when I'm offered you as breakfast or lunch or even dinner. Every day when I try doing some experiments with you and it works out, you just make me feel better. Actually you know you are the solution to my hunger, my anger, mood swings and what not. I just hope no more ban be imposed on you so that we don't get separated and more importantly you come out in different flavours.

Your loving fan,  
A proud MasterChef.

**Malvika Nair**  
**(BE COMPS)**

## What Inspires Me!



Namaskar, Sahastriahakar, Adaab! This is Omkar Chaudhari. Well, What Inspires Me!(WIM) has been a fulfilling and worthwhile journey. WIM is a series of 10 episodes which are easily and freely available @omkaratbeyond on IGTV. This show happened to me in vacation of Dec'18. I was sitting in afternoon post lunch scrolling YouTube feed and came across a motivating and inspiring video of Muniba Mazaria. A women who met with an accident, got deadly injuries and had given up all hopes to live after acknowledging that she could never be a mother! But there comes, a dim candle light of hopes turning into big dazzling radiance which made her and her life worthy.

Today she appears on televisions, public places in spite being physically challenged and has a cheerful grin on her face and was featured in 'FORBES 30 under 30'. When her husband divorced her, she prayed for his long life and his happy successful marriage. She moved on, marrying and adopting a baby child, thus leading a cheerful life in spite of so much adverse difficulties. She quotes, "When life throws lemons at you, catch those lemons and make lemonade, instead of complaining".

Yes, it did inspire me and motivate me to cultivate positive outlook towards life. Fortunately I came across this and my mind was struck with an idea, "Today I came across this content and yes it did inspire to take a firm and confident step in overcoming my difficulties and move ahead with positive outlook in my life. Definitely there are so many inspirations out in the world, let me speak about them, let me enlighten and encourage you to take your first step towards overcoming your problems.

By showing you how big the problems can be, how huge complications world has been facing and the problems that you have is relatively a small one to encounter! This does motivates you to think wisely and positively towards facing your problem and finding a solution towards it."

This was the notion behind the show, now to start with the show. Studying and ideating the content was a big task like 'Who I am going to speak about, what should I speak, what points to highlight and much more'. The funniest and exciting part was to shoot the show. I won't deny it does take a lot of determination. There were days were I had to re-shoot certain parts or an entire episode, just because the previous one didn't break the ice.

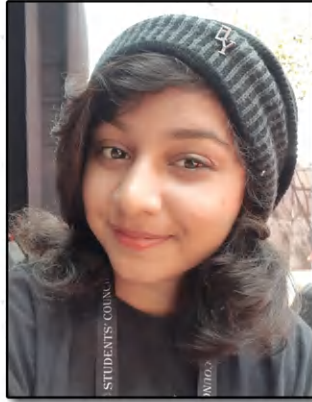
Some days, schedule was too hectic, like doing 3 episodes shoot at single stretch. Let me be honest about it, on same day if you're shooting 2nd episode, one does have tongue slips and 3rd episode in series is a big chaos, because there were lot of tongue slips and also I used to get tired remembering the points, facing the camera. Also forgetting the content, missing on some lines and when you realize; going back correcting yourself, re-shooting the sequence was part of my journey. Well, I am not complaining,

I enjoyed all of that. Editing process is the stage wherein all the bloopers are taken out and you get to hear me perfectly without any errors and soothing music. I spoke about motivating journey of Boman Irani, famous YouTuber Prajakta Koli, Jeremy Oshin, some episodes about love, respect and education and list goes on. There is so much of exciting content that one needs to deep dive into it!

I must thank all of you, for being part of my journey and getting motivated and inspired by the wonderful series of "What Inspires Me!" and Kudos to you! To start working on your task by putting your best foot forward. If you haven't watched it yet, worry not! You are not late! It's all there for you on Instagram on IGTV of @omkaratbeyond. Do watch it and let me how know did it make a difference to your thought! #KeepInspiring be Inspired!

**Omkar Chaudhari**  
**(TE-EXTC)**

## Library of my thoughts



I sit here in the library of my thoughts,  
Thinking, analyzing, reminiscing.  
With memories making me dizzy with emotions,  
And my heart soaring with romantic imaginations.

It opens doors that weren't to be opened,  
It answers questions that shouldn't have been answered.  
It entangled, generates and then detaches,  
It's a frenzy that is hard to cope.

With every good thought comes unprecedented glory,  
And bad thoughts make me swim in guilt.  
But what's good or bad, how do I decide?  
How do I decipher if it's corrupt or my conscience?

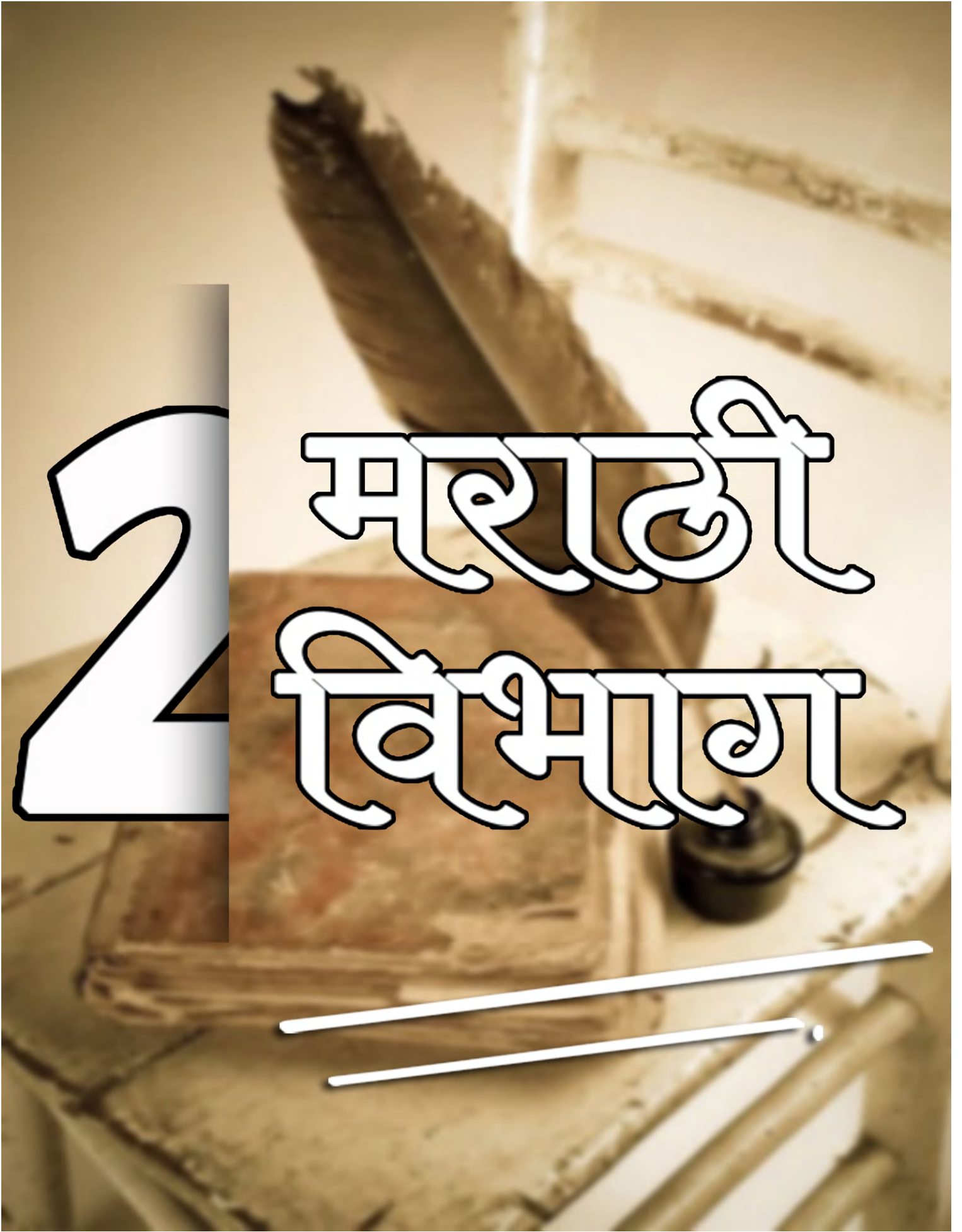
And to talk about the dark sections of this library,  
Should I worry about what I might find?  
The diaries consisting of hours of self debates,  
I want to explore, but I refrain from movement.

This library is vast, I tell you.  
It adds, it never ends,  
Its sunshine on one side, storm on the other,  
Its better than any wonder created by man.

**Zahabiya Dalal**  
**(SE Instru)**

2

मराठी  
विभाग



## संपादकीय



'माझ्या मराठीची बोलू कौतुके।  
परि अमृतातेहि पैजा जिंके।  
ऐसी अक्षरे रसिके। मेळवीन।।'

या शब्दांत मराठी भाषेच्या सौंदर्याचे अत्यंत चपखल वर्णन केले गेले आहे. आपली ही सुंदर मराठी भाषा गेल्या अनेक शतकांपासून प्रचलित आहे. मराठी ही वेदपूर्वकालीन भाषेपासून, संस्कृतपासून, पालीपासून, प्राकृत भाषेपासून, महाराष्ट्री किंवा अपभ्रंश भाषेपासून तयार झाली असावी असा विचार अनेक अभ्यासक मांडतात मात्र त्यांच्यात एकमत अजूनही दिसून येत नाही.

'विस्टा' मधून आम्ही दरवर्षी विद्यार्थ्यांच्या लेखनशैलीला वाव मिळावा यासाठी प्रयत्नशील असतो. २०२० हे सर्वांसाठीच अगदी कठीण असे वर्ष होते. करोनाच्या काळात सकारात्मक रहाण्यासाठी अनेकांनी जुन्या आठवणींना उजाळा दिला तर काहींनी त्या आठवणींना शब्दांत मांडले. यावर्षी, अर्थात विस्टा २० मध्ये 'Reminiscence', अर्थात जुन्या आठवणींना उजाळा या थीम अंतर्गत विविध लेख मांडण्यात आले आहेत. या अंकामार्फत विद्यार्थ्यांमधील काव्य व साहित्यिक गुणांना वाव देण्यासाठी लिटरेरी कमिटी सातत्याने प्रयत्नशील आहे, आणि यापुढेही राहिल.

आम्हाला दिलेल्या बहुमोल मार्गदर्शन व प्रोत्साहनाबद्दल आम्ही महाविद्यालयाचे प्राचार्य डॉ. हरीश वानकुद्रे आणि आणि प्राध्यापिका स्वाती वर्मा यांचे मनापासून आभारी आहोत. मराठी विभागातील सदस्यांच्या मोलाच्या योगदानाबद्दल त्यांचेही आभारी आहोत.

भविष्यकाळात मराठी भाषेला अधिक अधिकाधिक वृद्धिंगत करण्याकरिता तसेच साहित्यिक गुणांना वाव देण्याकरिता विविध कार्यक्रमांचे आयोजन करण्याचा आमचा नक्कीच प्रयत्न असेल.

पिनाक प्रकाश भंडारकर

TE INSTRU



## पुसटलेल्या आठवणी आणि मी...



अधून मधून गावी जानं होतच पण ह्या वेळेची गोष्ट थोडी वेगळी होती. गावाला येऊन दोन दिवस झाले होते. पण त्यादिवशी पहाटे-पहाटे मी सर्वांच्या आधी उठले आणि जरा खिडकी खोलून पाहिली ,बऱ्यापैकी सूर्योदय झाला होता..

आणी तेव्हाचतचं अचानक वाऱ्याची एक मंद झळुक आली ,जणूकाही तो मला बाहेर बोलवतोय असा भास झाला. मी माझ्या स्पोर्ट्स शू कडे एकदा वळून पहिलं आणि मग तेच चढवून तशीच बाहेर आले .वाऱ्याची पुन्हा एक मंद झळुक आली. मी अंगणात स्तब्ध उभी होती .वारा तसाच मला स्पर्श करून पुढे त्याच्या प्रवासाला निघून गेला. अक्षरशः अंगावर शहारे आले होते मी तशीच त्या शहान्याबरोबर अंगणातून गेट च्या बाहेर आले ,आणि त्या झोंबनाऱ्या वाऱ्यासोबतच मी माझ्या मॉर्निंग वॉक\_ ला सुरवात केली...जिकडे जिकडे मी जात होती तो तो रस्ता मला काहीतरी सांगत होता आणि मीही ते ऐकत होती..तो जुन्या गोष्टींचीं आठवण करून देत होता.. काही आठवणी जपायच्या असतात,तर काही त्या जगायच्या असतात आणि काहींना मनाच्या कोपऱ्यातून अलगद काढून पुन्हा त्या अनुभवायच्या असतात याची जाणीव करून देत होता.असचं चालता चालता मी माझ्या शाळेच्या परिसरात आले . माझी शाळा तशी मोठी नाही आहे, पण सुंदर नक्कीच आहे .शाळेसमोर मोठं मैदान आहे .ती शाळा, अंगनवाडी ,शाळेसमोरच भलं मोठं मैदान आणि त्या मैदानातलं ते छोटखानी मंदिर हे एकच विश्वचं होतं तेव्हा.

मंदिराच्या बाजूचं ते बेलाचं झाडं.आणि त्याच्याच बाजूला असलेलं अजून एक झाड आहे.त्या झाडाच्या फुलांचं मध.. आमचं ठरलेलं एक प्रकारचं पेयच होत.. मंदिराच्या पाठीच एक बोरीचं आणि दोन आंब्याची झाडं आहेत.शाळेला एकदा उन्हाळा सुट्टी लागली कि आमचे एक प्रकारचे नैसर्गिक खाद्यचं होत.. ति दोन आंब्याची झाडं म्हणजे गावकीची अस सर्व सांगायचे.मला अजूनही कळालं नाही आहे . नक्की ते कोणाचे होते.शाळेच्या पाठीचं एक पेरुचं झाड आहे.. ते म्हणजे आमची आगगाडी, बस, जहाज, विमान सर्व काही होतं ..कधी बाहेर जायची लहर आली तर त्याच्यावर जाऊन आम्ही सर्व जण बसायचो ,आणि नकळतच जगभ्रमंती करायचो आणि त्यात महत्वाची बाब म्हणजे सर्वात उंचावर कोण बसेल याची शर्यत असायची.समूहा समूहाने रानात फिरायची मजा तर काही औरच होती .

करवंदे, चिंचा,आंबे,बोरं जमा करायचं आणि खायचं, सुट्यांमध्ये सकाळ ते दुपार आम्ही मुली भातुकलीचा खेळ खेळायचो आणि मुले विटीदांडू ,गोट्या नाहीतर क्रिकेट अस्पेश (लपाछपी )आणि मग दुपार ते सूर्य मावळेपर्यंत सायकलचा तो निघालेला टायर घेऊन राजेशाही रपेट करायचो .गावी सर्वजण त्याला गाडाचं बोलायचे मग आम्हीही लगेच गाडा गाडा खेळायला सुरवात करायचो,लगोरी, डोंगर कि पाणी, विलायती कोकणट, मासा,आणि बाटी हे आमचे ठरलेलं खेळ. अजूनही खूप सारे खेळं होते पण आता आठवत नाहीयेत .. कारण आता आठवणीच पुसट होत चालल्यात काळाच्या ओघात असो आहेत त्या तरी जरा ताज्या करून पाहूया.

दरवर्षी पावसाळ्यात मी आणि बंधु (दादासाहेब ) आम्ही दोघही सकाळी पहाटे पहाटे अलब्या (मशरूमस) आणायला जायचो ,त्याचा कधी कधी मला रागच यायचा .तो नेहमी मला एका बांधावर उभा राहायला सांगायचा पण स्वतः मात्र अलब्या शोधायला जायचा ,मी तासनंतास त्याची त्या बांधावार वाट पाहायची. सोबत सर्प,मोर, रान्डीर आणि कोकिळा यांचा आवाज होताचं. मधूनच पाचोळ्यातून आणि झाडांच्या पानांमधून सरसर आवाज यायचा मग मी लगेच नाईलाजाने दादा ,दादा मोठ्याने हाका मारायची पण दादा मात्र अलब्यांची पिशवी भरल्यानंतरच यायचा,आणि मग आल्यावर विचारायचा तू घाबरलीस, खरतर मला भिती वाटायची पण मग त्याच्यासमोर मान्य कोणं करणार कारण दुसऱ्यादिवशी परत यायचं होतं.त्या कोकिळेचा ,मोरांचा,चिमण्यांच्या पिल्लांचा आवाज ऐकायचा होता, सुतार पक्ष्याच्या पायाच्या खुणांनां जगाच्या नकाशाची नावं द्यायची होती .आणि मला हे सर्व गमवायचं न्हवतं.आता हे सर्व झाल्यावर सुरवात व्हायची शाळेच्या तयारीची.आमच्या शाळेत दोन सर होते महाले सरआणि भागवत सर पण त्याच्या आधी पाटील सर होते. पाटील सर प्रेमळ ही होते आणि थोडे शिस्तप्रिय देखील.. त्यांच्यानंतर महाले सर आणि मग भागवत सर आले.. दोघेही सर दूर वरून आले होते महाले सर नाशिक वरून तर भागवत सर औरंगाबाद इथून.. जास्तकरून आम्ही कधी रायगड च्या बाहेर गेलोच न्हवतो. कधी मुंबईला सुट्यांमध्ये आलो तर नाहीतर ते देखील नाही.यामुळे औरंगाबाद आणि नाशिक हे काही परदेशापेक्षा कमी न्हवतं आमच्यासाठी.भागवत सरांचं ठरलेलं असायचं ते जेव्हा रडवायचे तेव्हाच हसवायचे सुद्धा.. महाले सर जेव्हा कडक दिसायचे तेव्हाच ते प्रेमळ देखील होते.. त्यांनीच काही नियम बनवले होते शाळेच्या स्वच्छतेबाबत.

आमची शाळा आम्हीच साफ करायचो बहुतेक त्याच्यामुळेच आम्हाला आमच्या शाळेविषयी आदर आणि प्रेम निर्माण झाला असावा इथे ना कोणी पिउन होता, तर ना कोणी सफाई कामगार ..शाळेला व शाळेच्या परिसराला स्वच्छ ठेवण्याची जिम्मेदारी प्रत्येकाची होती. आमचे त्यांनी दोघादोघांचे गट पाडले होते. सकाळी लवकर उठून सर्वांच्या आधी शाळेत जायचं केर काढायचं. प्रत्येकाच काम ठरलेलं असायचं कोणी दिनविशेष लिहिणार, कोणी वाचणार, तर कोणी झाडांना पाणी घालणार अगदी सर्व काही....याच्यात तर खरी गंमत होती..पण आता सर्व काही कुठेतरी हरवलंय. शिकायला मुले नसल्या कारणाने शाळेला सील लागलाय..

ना कोणी केर काढायला आहे तर ना कोणी झाडांना पाणी घालायला.कचरा तसाच आहे, झाडे ,वेली सुकल्या आहेत. कुठे छप्परातून सूर्याची किरणे आरपार होतायेत तर कुठे खिडक्या तुटल्या आहेत.शाळेची अशी दयनीय अवस्था पाहिल्यावर हृदय चर्र होऊन जातं कारण शाळा अशी कधीच पाहिले न्हवती,पण ते आवाज आणि आठवणी अजूनही प्रत्येक कोपऱ्यात दरवळत आहेत ,आता मात्र शाळा शाळेसारखी आणि गाव गावासारखं नाही राहिलय... सर्वच काही काळाप्रमाणे बदललंय.....

भक्ती सुभाष रायगवळी  
(SE EXTC)

## एक निनावी नातं



तुझी आठवण आली तर  
झटकन अंगावर शहारा येतो ।  
तुझ्याबरोबरचा प्रत्येक क्षण  
पटकन डोळ्यासमोर येतो ॥

रोज रडू येते  
आपल्यातल्या अंतरासाठी ।  
माहीत नाही हे सारे  
का होते? कशासाठी?

तुझा प्रत्येक स्पर्श  
काहीतरी वेगळ सांगून जातो ।  
ज्या दिवशी तू भेटतो, त्या दिवशी  
वेळ कसा भुरकन निघून जातो ॥

मला माहीत नाही आपल पुढे काय होईल?  
पण तुझ्या बरोबरच्या प्रत्येक अनुभवात  
मी रडत का होईना निश्चित झोपून जाईल

काय आहे आपल्यातील नातं?  
का त्रास होतो तू बोलला नाहीस तर?  
का वाटते प्रत्येक क्षणी तू माझ्याबरोबर  
असावा?  
अश्या अनेक 'का'ची उत्तर मी अजूनही  
शोधत आहे.  
खरच प्रत्येक नात्याला नावाची गरज  
असते?  
की काही नाती ही अशी ही असतात  
जी निनावीच शोभून दिसतात?

रिया राऊत  
(FE INST)

## मन माझे...



मनाच्या उंचीसमोर हिमालय ठेंगणा होतो,  
डोळ्यातले अश्रू हा मनाचा दुबळेपणा ठरतो.

गुंतलेल मन म्हणजे पदरात अडकलेला पिन  
असे,  
चंचल मन म्हणजे विचारी फुलांवर  
बसण्याची सोय असे.

निराश मनाला फुलविता येते,  
संशयी मनाला मनोविकाराची ध्यास्ती असते.

मनातून उतरलेला माणूस मन जिंकू शकतो,  
पण त्याला स्वभावात तितकाच बदल  
आणावा लागतो.

धाग्यात मणी ओवता ओवता कधी दोन्यातून  
निसटतात भासत नाही,  
तसेच गतीच्या वेगाने धावणाऱ्या मनाला  
थांबवता येत नाही.

शरीराला झालेल्या जखमा दिसून येतात,  
मात्र मनाला झालेल्या जखमा व्यक्त कशा  
करता येतात.

आकाशाचा अंत एकवेळ लागला असेल,  
पण माणसाच्या मनाचा अंत कोणास शोधता  
येत असेल...

अदिशा  
(SE EXTC)

## गेले ते दिवस, राहिल्या त्या आठवणी



पाहता पाहता वेळ कधी निघून गेला कळलच  
नाही  
आपल्या सर्व मित्रांपासून लांब जावं लागेल हे  
कधी कळलच नाही

FE पासून BE पर्यंत खूप गोष्टींमध्ये बदल झाला  
Chillax and relax च्या जागी अन्नाची चा  
डोसा आला

मार्च मध्ये होणारा zeal या वर्षी फेब्रुवारी मध्ये  
होताना पाहिला  
पण या COVID-१९ मुळे farewell मात्र  
राहिला

वाटते पुन्हा लेक्चर bunk करून defaulter  
मध्ये येऊ  
पेनल्टी च काय, मित्रांकडून लिहून घेऊ

झोप येईल इतके कंटाळवाने लेक्चर आज हवेसे  
वाटतायत  
कारण जाणीव होतेय हे क्षण आपल्या हातुन  
कायमचे सुटतायत

कायम सोबत राहतील या आठवणींच्या साठवणी  
कारण गेले ते दिवस, राहिल्या त्या आठवणी

ऐश्वर्या गावडे  
(BE INFT)

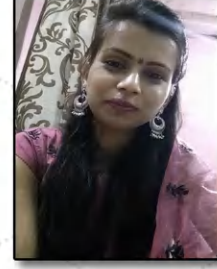
## मैत्री



असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
मज्जा तर होतीच , तततकीच होती आपुलकी  
साथ तर होतीच ,पण काही क्षणासाठी  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
लेक्चर मध्ये कधी गप्पा रंगल्या घरच्या  
तर कधी गाण्याचे सरु जुळले  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
कोणी भाई भाई करून मन जजंकले  
तर कोणी बहीण बनून जीव लावला  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
कोणी मिकवले संस्कार ,तर कोणी मिकवली  
भाईगगरी  
पण घडवले मात्र सवांनी  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
डब्बा नाही आणला , चल कॅ न्टीन ला खावू  
लेक्चर नाही बसायचं ,चल घरच्या वाटेला लागू  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
कोणाच्या घरी जावून भरपेट जेवलो  
तर कोणी घर िखवले िनुनच  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
काहींचे अश्रूखील पाणावले  
तेवढच आनंिसुद्धा अनुभवले  
असे छान दिवस होते ते  
ममत्र-मैत्रणीच्या सहवासातले  
मित्री आहे आमची मैत्री  
तनस्वाथी ,प्रेमळ अन्तनराळी  
दिल िस्ती तिनुयागिरी..

मानसी मालप  
(SE INFT)

## आयुष्य.....



छोट्या या आयुष्यात  
खुप काही हवं असतं,  
असंख्य चांदण्यांनी भरूनसुधदा  
आपलं आभाळ मात्र रिकामचं असतं.

जन्माला येताना काही आणलेलं नसतं,  
आणि मृत्यूनंतर काही घेऊन जायचं नसतं.  
तरीही मग जीवनात एवढे काबाडकष्ट का?  
या प्रश्नाचं उत्तर शोधण्यासाठीच जगायचं असतं.

सुख आणि दुःख जीवनात येतच असतं,  
"हे दिवस सुधदा जातील" असं म्हणून संकटाला  
तोंड द्यायचं असतं.  
आज दुःख आहे तर उदया सुख आहे  
दुःख आलं म्हणून खचून जायचं नसतं  
आणि सुख आलं म्हणून हरपून जायचं नसतं.

दोन क्षणांच्या या आयुष्यातून  
एक जीवन घडवायचं आहे,  
म्हणून आपणच ठरवायचं की,  
अपयशाला घाबरून दुःखाला ओढून घ्यायचं की,  
संकटांना सामोर जाऊन स्वतःच नशीब घडवायचं.

जोपर्यंत आयुष्य आहे तोपर्यंत मनसोक्त मनाप्रमाणे  
जगा  
ज्या गोष्टी आपल्या कडे आहेत त्यांचा आनंद लुटा.  
हव्या असलेल्या सगळ्याच गोष्टी माणसाला मिळत  
नसतात ,  
पण न मिळणाऱ्या गोष्टीच, माणसाला का हव्या  
असतात?

श्रद्धा पाटील  
(SE EXTC)

## बहीण भावाचे नाते



बहीण भावाचे नाते नदीच्या प्रवाहाप्रमाणे असते,  
आयुष्यभर एकमेकांसोबत राहणारे असते,  
बहीण भावाचे नाते काहीसे खट्याळ असते,  
कधी कधी फुलासारखे कोमल असते,  
बहीण भावाचे नाते अबोल असते,  
न समजणारे कोडे असते,  
बहीण भावाचे नाते हट्टी असते,  
क्षणात कट्टी तर क्षणात गट्टी असते,  
बहीण भावाचे नाते सावली देणारे झाड असते,  
आयुष्याच्या वाटेवर चालताना सोबत असणारे धीराचे गाठोडे असते,  
बहीण भावाचे नाते कधीही न तुटणारे असते ,  
हे राखीच्या धाग्यात घट्ट बांधलेले असते,  
बहीण भावाचे नाते एकमेकांशिवाय अपुरे असते,  
म्हणूनच तर बहीण भावाचे नाते सागराहूनही खोल असते.

राजस्वी विजय राऊत  
( TE EXTC)

## एकांतता..



आपल्यासाठी आपल्याबरोबर घालवणारा वेळ म्हणजे एकांतता.

अंताची जेवढी चाहूल नसते, तेवढी एकांतता विभिन्नता असते.

अश्रूची साथ ज्या काळात जास्त असते 'त्या' दुःखद क्षणाची, एकांतता

जाळ्यात फसलेल्या अदभूत प्रसंगाची साठवण करावी, ती एकांतता..

तुटलेल्या तान्यात चालणाऱ्या आयुष्याची, ती एकांतता..

भूतकाळात चुकलेल्या विचारांचा नाश करून , भविष्याचे नवीन स्वप्न , ती म्हणजे एकांतता..

शांत राहून आपल्या माणसाचा विचार करणे, ती म्हणजे एकांतता..

अदिशा  
(SE EXTC)

## चहा

चहा आणि बिस्किटाचे  
नात आहे भारी,  
एकमेकांसोबत नसेल, तर  
शोभत नाही जोडी.

पाऊस आणि त्याचे वेगळीच साथ,  
थंडाव्याला करतात सोबतीने मात.

कामगारांचे माझ्यावर जास्तीचे प्रेम,  
कंटाळा, राग आल्यावर करतात मला blame.

टपरीवर च्या मालकासोबत राहायला आवडते  
फार,  
CCD मध्ये बिस्किट सोडून पैशांचा असतो जास्त  
भार.

कधी कप लहान असल्यामुळे  
बिस्किटाला जागा पुरत नाही,  
पण स्वतः तुटून  
साथ कधी सोडत नाही.

(SE EXTC)

## मैत्रीतील दुरावा.....



तसे चांगले मित्र आहेत.....  
पण समोर यायला घाबरतात.....  
व्हाट्सअप वर खुप काय बोलतात.....  
प्रत्यक्षात बोलायला मात्र विचार करतात....  
इंस्टाग्राम वर खुप लाईक करतात.....  
प्रत्यक्षात मात्र तू खूप सुंदर दिसतोस हेही  
बोलायला लाजतात...  
चुकून समोर आले की नजरांना नजर  
चुकवतात....  
नंतर मग मी बोलायला हवं होतं म्हणून  
पश्चाताप करतात....  
असं बरेच दिवस चालू होतं...  
पण कारण याचं त्यांना समजत नव्हतं.....  
मैत्री आहे की दुरावा हे त्यांना त्यांच समजत  
नव्हतं.....

रोहन पाटील  
(FE INSTRU)

## झाड

आज काय विपरीत घडलय बुवा,  
माणसाच्या जंगलात शांततेची हवा.  
वाहनांच्या धूरातून मिळालाय दिलासा,  
पक्षांच्या बोलीचा घेतोय कानोसा.  
झाडाला देखील आठवते त्यांचे आजोल,  
कानावर येणारी फक्त पानांची सलसल.  
विकासाच्या मागे धावत राहिल काळ,  
मनुष्यच करेल मनुष्यधर्माचा भूतकाळ.

अथर्व नाईक  
(FE INSTRU)

## आठवणींचा ठेवा



आज आठवणींची ट्रंक सापडली  
धुळीने पूर्ण माखलेली  
म्हटलं जरा साफ करावी  
बालपणीच्या आठवणींनी साचलेली

जुनी खेळणी सापडली  
भातुकली, टेडी, भावाची छोटी गाडी  
बाहुली बहुल्याच्या लग्नाचा मांडव  
थोडीशी फाटलेली माझ्या बाहुलीची साडी

अल्बम सुद्धा होता त्यात  
लहानणापासूनचे फोटो दिसले  
आईच्या हातचं जेवतानाचा,  
वाढदिवसाचा तो पहिला केक पाहून मीच  
हसले

आई बाबा मागे बसलेले  
अचानक रडवेले झाले  
लेक लवकर मोठी झाली  
परक्या घरी पाठवण्याचे दिवस जवळ आले

उशीर आहे हो अजून  
म्हणून मीच रडू लागले  
आईच्या कुशीतून कधी बाहेर पडले  
माझे मलाच नाही कळले

बाबांची घट्टं मिठी  
पाठीवर बसून फिरणं  
आईच्या हातचा मार  
आणि भावासमोर नेहमी हरण

खूप लांब गेले हे दिवस  
आता पुन्हा काही ते येणार नाहीत  
आठवणींची हीच एक शिदोरी  
एवढेच काय ते मला माहित

आता मात्र ठरवलं  
वेळ मिळेल तसा ट्रंक साफ करीन  
रोजची धावपळ pause करून  
आठवणींना उजाळा देईन

डोळ्यात टचकन पाणी आलं  
अश्रूंचा बांध फुटला  
जगणं जणू विसरून गेलेले मी  
आज जगण्याचा नवा अर्थ सापडला

स्वराती पवार  
(TE EXTC)

## भावना आईबाबांच्या मनातल्या.....



माझ्या घरी आली एक गोड परी तू  
पाहिली मी वाट तुझी 9 महीने 9  
दिवसाची ग  
भराया मायेची ओंजल आलीस तूही  
एवाढ्या दुरून ग  
घेता तुज माझ्या हाती फुटला मज ममतेचा  
सागर  
धन्य झाले जीवन लाभले आई होण्याचे  
भाग्य  
चंद्रालाही लाजवेल असे गोड रूप तुझे  
घेतले मी सामावून तुझ्यात विश्व हे सारे  
माझे  
बोबल्या बोलांनी तुझ्या घर बहरले  
नाजुक तुझ्या पावलांनी सारे काही  
सुखावले  
घोडा करुन बाबांचा तुझी स्वारी पाठीवर  
तुझ्या त्या आनंदाला कसलाही थारा नाही  
शाळेतला पहिला दिवस तुझा, हुरहूर  
माझ्या मनाला  
करताना टाटा मज डोळे तुझे पाणावाले  
जाऊ नकोस आई तू मज सोडून  
ओठानी तुझ्या हे स्वर उच्चारले  
बाबा तुम्ही कुठे आहेत? विचारी तू  
फोनवर  
तुझा काळजीरूपी आवाज ऐकून बाबाही  
करी पळापळ

आईपेक्षा बाबावर करी तू लळा  
बाबांचा तू लाडोबा जीवाचा तू त्याच्या  
ठोका  
हळूहळू झालीस तू मोठी, झाले तुझे  
लग्नाचे वय  
आले स्थळ तुला कोणा नातेवाईकाकडून  
मुलगी म्हणजे दुसर्याच्या घराला  
आपलस करणारी  
कधीतरी करावीच लागणार होती  
तिच्यावीना जगण्याची सवय  
सुखाने होऊदेत तिचा लग्न प्रवास  
साताजन्मांसाठी  
राहशील परी बनून माझ्या ह्या हृदयाची  
येईल आठवन जेव्हा तुझी येशील ना  
भेटाया मज वेळ काढूनी  
राज्य असेल कायम तुझे तुझ्या ह्या  
आईबाबावर  
गेली आहे जरी तू सासरी राहिल नेहमी  
आमच्या सोबती तू  
माझ्या घरी आली एक गोड परी तू  
माझ्या घरी आली एक गोड परी तू

राजस्वी विजय राऊत  
(TE EXTC)



3

# हिंदी विभाग



## संपादकीय



स्मृति के आधार पर किसी विषय या व्यक्ति के संबंध में लिखित किसी लेख या ग्रंथ को संस्मरण कहते हैं। हम सभी को याद होगा वो हमारा पहला दिवस इस महाविद्यालय में। हम सभी को याद होंगे वो न भुला देने वाले दोस्तों के साथ बिताए हुए पल। जब हमने वह पहला मित्र बनाया था यह महाविद्यालय में। यही दोस्तों की यादों में फिर से एक बार खोजा ने के लिए इसी विषय से प्रेरित इस साल के महाविद्यालय की वार्षिक पत्रिका का शीर्षक है,

“Reminiscence- Relieve your memories”.

मैं श्रीमती स्वाती वर्मा का हार्दिक आभार प्रकट करती हूँ, जिन्होंने वार्षिक पत्रिका के संपादकीय होने का सुअवसर प्रदान किया और पूरे वर्ष अपना बहुमूल्य समय निकाल कर सहयोग किया। मैं पत्रिका सचिव ऐश्वर्या गावळे का भी धन्यवाद प्रकट करती हूँ, जिन्होंने हर पल साथ निभाया। मैं सभी वाचकों की भी शुक्रगुजार हूँ। अंततः मैं आप सभी का आभार व्यक्त करते हुए अपनी कलम को विराम देती हूँ और उम्मीद करती हूँ की आपका पाठन आनंदमय हो।

मयूरी  
TE COMPS

## याद



जिंदगी के इस लंबे रेस में,  
कोई पास मेरे तो कोई परदेश में,  
दुनिया के इस भिड़ में खोय है,  
आज भी एक दूसरे को याद करके सोएं हैं,  
वह साथ गुजारे जो पल थे, लगता ऐसे ही जैसे कल थे,  
कुछ कारणों से आज-कल मुलाकात नहीं हो पाती,  
हां कुछ तकलीफें है जीसे बात नहीं हो पाती,  
लेकिन यह न कहना हुजुर  
“तुझे तो हमारी याद ही नहीं आती!”

@soch.vichaar  
TE-IT

## यू तू खुद को बरबाद ना कर



कल के गम में तू आज को बरबाद ना कर जो मिला हैं  
तुझे उससे ज्यादा की आस में खुद को तू नाराज़ ना कर।  
जिन्दगी हैं ये तो चलता रहेगा यू राहों में रुककर  
तू आराम ना कर ,खुद को यू तू बरबाद ना कर।  
जिंदगी एक सफर हैं इस सफर में तू खुद को  
गुमराह ना कर जो बोलते है बोलने दे उन लोगो को  
उनको बस तू नजरअंदाज कर ,  
कल का सोच कर यू तू खुद को बरबाद ना कर।  
जो मिलना है तुझे वो तो मिलकर ही रहेगा ,  
दूसरो का देख कर उसको तू बरबाद ना कर ,  
माना पहुंचना हैं तुझे भी बुलंदियों पर ,पर थोड़ा सब रख  
और उसके लिए बस तू जी जान से अपना काम कर।  
ऐसे ही नहीं पहुंच जाते लोग बुलंदियों पर ,  
जाकर उनसे पूछ क्या क्या नहीं सहा हैं उन्होंने उम्र भर ,  
और तू थक जाता हैं बस इतने से ही सफर पर ,  
तो क्या करेगा तू इस तरह से चल कर जिसमें हैं  
तुझे आज से ज्यादा कल का हैं डर ।  
थोड़ी हिममत रख और ना किसी से डर  
बस आज के पल को जीते चल ,  
ना रख कोई भी काम कल पर बस तू उसको करते चल,  
फिर देखना ना होगा तुझे कल का डर ।  
इस तरह तू कल का सोच कर खुद को बरबाद ना कर।

अंसारी मुस्ताकीम  
TE EXTC

## हम तुम्हारे साथ रहें या ना रह



हम तुम्हारे साथ रहें या ना रहें,  
इससे क्या फर्क पड़ता है।  
तुम्हारी जिंदगी की कश्ती कभी ना डुबे,  
यहीं दिल दुआ करता है।

क्या गलती थी मेरी,  
तुम हो गए मुझसे खफा।  
शायद कमी थी मेरी मोहब्बत में,  
हम हो गए इसलिए जुदा।

हम तुम्हारे साथ रहे या ना रहे,  
फर्क पड़ता है इससे क्या।  
कभी ना डुबे तुम्हारी जिंदगी की कश्ती,  
यही दिल करता है दुआ।

इल्तेजा रहेगी खुदा से,  
आपके दिल की हर बात सच हो।  
गुजारिश है मेरी दिल से,  
आपकी सारी हजरते पूरी हो।

शुक्र करेंगे खुदा का,  
आपके साथ जो वक्त बिताया।  
हम तो बहुत खुश हैं,  
क्योंकी उसने हमे आपसे मिलाया।

निनाद वि करविर  
(S.E EXTC)

## पिता



तुम्हारे लाइवलीहुड के लिए वह पल-पल  
मरते हैं, अपना पौकेट कांट कर पूरी  
तुम्हारी वीश करते हैं, तुम्हारे सक्सेस के  
लिए यह कितने सैक्रीफाइज करते हैं,  
तुम्हारे ड्रीम्स के लिए वह अपने ड्रीम्स  
कौम्प्रोमाइज करते हैं, तुम्हें हंसता देख हर  
पल अपना दिल भरते हैं, सर्वशक्तिशाली  
व्यक्ति भी उनसे डरते हैं, जीत में तो सब  
होते, हार में भी यह साथ होते हैं, आंसुओ  
से न हो कमजोर इसलिए छुपकर रोते हैं,  
ऐसे व्यक्तित्व की बातें बड़े कम करते हैं,  
इंसान के शरीर में यह भगवान बस्ते हैं,  
कहीं ढेडी, कहीं अब्बा,  
कहीं पापा कहलाते हैं।.....

Saurav Choudhary  
@soch.vichaar  
TE-IT

## यादें



याद जब करते हैं उन बीते पलों को,  
आंसू से आंखें नम हो जाती है।  
छू जाती है वो यादें इन दिल की  
धड़कनों को, उन यादों में ये आंखें बस  
रो जाती है...!  
वो खुशी के पल बार बार आए,  
वो हसी के पल कभी ना जाए।  
वो मुश्किलों के पल यहां कभी ना आए,  
करने लगता है दिल एसी दुआए।  
हां जब उन पलों को याद करते हैं,  
उन पलों को हम एक बार और जीते है।  
फिर वहीं इस दुनिया में जब  
वापस आते है, इन यादों को हम  
एक बार दुबारा दोहराते है।

Mufaddal Kagalwala,  
BE-MECH-A

## मेरा भारत

यह मिट्टी में हम हुए बड़े,  
देश के कारण महारथी झगड़े।  
जीवन की बाज़ी लगा कर,  
स्वतंत्रता पाई संकट में आकर।  
मेरा भारत, मेरा जन्मस्थान।

विविध प्रकार के लोग यहां रहते,  
साथ मिलकर सब हंसते-खेलते।  
मिलकर करें हम रखवाली,  
पुर्ण करें हम अपनी जिम्मेदारी।  
मेरा भारत, मेरा वर्तमान।

यहां हिंदू मुस्लिम सीख ईसाई,  
आपस में हैं बहन-भाई।  
देश से प्यार यह सब करते हैं,  
इसके लिए सब जीते और मरते हैं।  
मेरा भारत, मेरी जान।

इस कविता का यही हैं उद्देश,  
सबके लिए हैं एक ही संदेश।  
मतभेद न करो और न करो लड़ाई,  
क्योंकि सर्व भारतीय जनता है बहन-भाई।  
मेरा भारत, मेरा स्वाभिमान।

भारतीय नागरिक

## परिवार

ज़िन्दगी शुरू होई थी जिन्से,  
करदी खुशियों की बोछार।  
एक माँ-बाप ही तो है जिन्से,  
बाना है ये कुशी-परिवार।

करते ना पढ़ई, जब हम बच्चें,  
दांट खाते और पढ़ते थे चार।  
जब रोना शुरू होता था उसी दांट से,  
दांट से अधिक उनका मिलता था प्यार।

दांट लगानान हक़ है उनका,  
झगडा कहना है बेकार।  
आखिर में सब एक हो जाते,  
इसिको कहते हैं परिवार।

पीता-जी है ऐसे शक्स,  
जिनको आता न जताना प्यार।  
बहार से सख्त और अन्दर से नर्म दीखना,  
शयद उका है ऐसा व्यवहार।

भले ही होते हो वो गुसा,  
प्यार का जो खोले दरबार।  
परिवार के लिए कुछ भी कर जातें है,  
जाब भी आया मुसिबत का पहाड़।

माँ, माँ का मूल्य हम सब जानते हैं,  
अनके बीना नहीं है घर-बार।  
खुब करते है प्यार सब से,  
इसि से बना प्यारा परिवार।

माँ-बाप हैं सब कुछ मेरे,  
बचपन में थे मेरे आधार।  
वक्त बदला उमर बडी हमरी,  
अब बन्ना है उनका आधार।

भई के जीवन में बहन ना हो तो,  
उसके जीवन में ना रहे बहार।  
खुशी, झगड़ा, गुस्सा उसी से,  
कुर्बान उसीपर सारा प्यार।

कितना भी झगड़े वह मुझसे,  
खा लुंगा उसके हाथो से मार।  
"भई मेरा भाई है!" यह पता हैं उसे,  
देती हैं मुझको सारा प्यार।

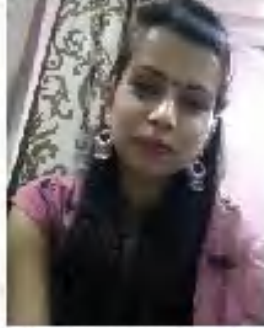
गाड़ी के जेसे चार पहीए,  
एक पहीए के बीना गाड़ी नहीं।  
चार सदस्य हैं परिवर में,  
किसी एक के बीना मेरा परिवार नहीं।

पीता न हो तो संसार नहीं,  
बहन के बीना भई बेकार।  
माँ ना हो तो घर-घर नहीं,  
इनके बीना अधूरा संसार।

मनते हैं हम सब इस बात को,  
की झगड़ते हैं हम बार-बार।  
नोक-झोक से ही तो प्यार बढ़ता है,  
शायाद इसी को कहते हैं परिवार।

शुभम .एम.पाटिल  
(SE- EXTC)

## तेरी मेरी यारी



No words can explain the importance of Friendshi A TRUE FRIEND means alot to everyone's life उसी दोस्ती के नाम कुछ अल्फाज...

### No Thank You, No Sorry

से गालियों तक का सफर, तय किया हमने साथ में हसकर रोकर।  
वो दिन ही क्या जब तुझे याद ना किया हो, वो लम्हा ही क्या जो तेरे बगैर जिया हो।  
तू है तो गम मैं भी हसते है हम, तू ना हो तो खुशी भी लगती है कम।

तेरे साथ बिताए हुए हर पल कि यादे आज भी कैद है इस दिल में  
इस अंजान भीड में जब भी कभी खुदको अकेला पाते है,  
तेरी यादों के सहारे फिर खिल उठते है।  
तु है तो जिंदगी का हरपल रंगीन है, नहीं तो तेरे बिना होली भी बेरंग लगती है।

एक दोस्ती ही है, जो हरपल साथ देती है, वरना ये मतलबी दुनिया काम होते ही  
पराया कर देती है। दोस्त है तो हर Problem का solutions है,

24x7 ये lifeline हमारी सेवा के लिए हाजीर है,  
तभी तो परिवार से बढकर दोस्तोका स्थान है।

हमारे सारे Raaz उनके पास मैहफुज है। उनकी मौजूदगी मै बिताया हर  
लम्हा हमारे करीब है। हमारे दोस्ती ही हमारी जान और शान है।  
अगर ऐसे अतरंगी दोस्त ना हो जिंदगी में तो जिंदगी ही बेकार है!!

श्रद्धा पाटील  
(SE-EXTC)

## प्यार



जब तुम्हें खुद से भी ज्यादा कोइ अच्छा लगने लगे,और फिर हर बार दिल उस पर ही रुकने लगे और हर जगह बस वो हीदिखने लगे , तो शायद तुम उससे प्यार करने लगे।

जब दिल हर पल उसी के बारे में सोचने लगे और फिर हर बात में उसको रखने लगे , और जब साथ वो हो तुम्हारे तुम्हें एक सपना सा लगे , तो शायद तुम उससे प्यार करने लगे। अगर तुम्हें उसके बिना सब फीका सा लगने लगे, आंखो के सामने उसका ही चेहरा आने लगे और उससे हर पल बात करने का मन करने लगे , तो शायद तुम उससे प्यार करने लगे।

बिना उसके बैचेनी सी लगे और जब पास वो हो तो वक़्त का पता भी ना चले और उसकी बातों में तुम खोने लगे, तो शायद तुम उससे प्यार करने लगे। उसकी हर बात में तुम हां करने लगे और जब नज़रे मिले उससे तो तुम मुस्कुराने लगे और उसके साथ होने से तुम्हें एक अलग सा अहसास होने लगे , तो शायद तुम उससे प्यार करने लगे ।

उसके दूर होने पर भी तुम उसको उसकी आहटो से पहचानने लगे और अगर उसकी आदतों को तुम अपनी आदतें बनाने लगे , तो शायद तुम उससे प्यार करने लगे।

अगर उसकी पसंद तुम्हारी पसंद होने लगे और हर लम्हे को तुम उसके साथ खुलकर जीने लगे ,तो शायद तुम उससे प्यार करने लगे।

अंसारी मुस्ताकीम  
TE EXTC



## नीकल रहें हैं आज हम



नीकल रहें हैं आज हम,  
दुआओं में याद रखना।  
कभी हमारी याद आएँ,  
तो खत जरूर लिखना।

सफ़र शायद पुरा हुआ,  
पर मंजिल अधूरी रही।  
रुक गए हैं हम,  
पर तुम ना रुकना।

अब ना कोई आरजू करेंगे,  
ना कोई इल्तेज़ा।  
खुदा तुम्हें सदा सलामत रखे,  
बस यही रहेगी दुआ।

निकल रहें हैं आज हम,  
दुआओं में याद रखना।  
जिंदगी के हर मुकाम पर,  
सदा मुस्कुराते रहना।

निनाद वि करविर  
(S.E EXTC)

## “तू”



मेरे जमीन की मिट्टी है तू  
मेरे आसमान का तारा है तू।  
मेरे दिल की धडकन है तू  
मेरे होंठों के अलफाज है तू॥  
न जाने कितने खयाल,  
आते हैं दिनभर तेरे।  
ये सब जानकर भी  
क्यू अन्जान है तू?  
तेरी यादों में आये हुये आसू  
मैंने मुठ्ठी में बंद कर रखे है।  
लेकिन तुझे ये पता है क्या  
मेरे हर आसू का नाम है तू?  
मेरे दिल में तसवीरों का विश्व है  
वो अलगसे विश्व का राजा है तू।  
न जाने क्यू हर जगहा  
मुझे सिर्फ दिखता है तू?  
जिस रिश्ते को कोई नाम नहीं होता  
उस रिश्ते के हकदार मैं और तू।  
कोई रिश्ता हो ना हो एक बात जरूर याद  
रखना मेरे तन ओर मन मैं है सिर्फ तू, तू ओर तू॥

रिया राऊत  
FE (INST)

## आगे बढ़ता चल



वक़्त के साथ सब बदल जाता है अगर आज बुरा वक़्त है तो एक दिन अच्छा भी आता है, बस चलता चल यूही बिना कोई शिकायत के इस सफ़र में धीरे धीरे सब मिल जाता है। उदास है तू, क्यूंकि तुझे आज कोई नहीं जानता, आएगा वो भी वक़्त जहां हर कोई होगा तुझे पहचानता, सब्र रख थोड़ा और यकीन रख खुद पर आएगा वो वक़्त भी जो बदल देगा तेरा सब । ज़माना है ये तो कहेगा ही और तेरी नाकामी पर हसेगा भी पर तू हौसला रख खुद में और बस बढ़ता चल बस अपने मंज़िल की और तू चलता चल ,आयेगा वो दिन भी जब होगा खत्म ये तेरा सफ़र देखना तब होंगे तेरे साथ वो सब । तू इस अपने जज़्बे को बस लेकर चल खुद बा खुद मंज़िल आने लगेगी तुझे नजर , पता भी ना चलेगा तुझे जब होगी तेरी ही रोशनी हर तरफ बस तू यू ही आगे बढ़ता चल। राहों में मिलेंगी मुश्किलें तुझे हर कदम पर करना तू उनका सामना अपने दम पर ,बस बढ़ते रहने अपने ही सफ़र पर देखते ही देखते मंज़िल आएगी तुझे नजर। बस तू यू ही आगे बढ़ता चल।

अंसारी मुस्ताकीम  
TE EXTC

## एक योद्धा



एक योद्धा का सबसे पहला गुण होता है विश्वास,  
तो सबसे पहले अपने अंदर विश्वास को भरना है।  
एक योद्धा हमेसा सक्रिय रहता है,  
तो हमे हमेसा हर स्थित से निपटने के लिए सक्रिय रहना है।  
एक योद्धा को हमेशा धैर्य रखना चाहिए,  
तो हमे भी अपने धैर्य को नहीं खोना है।  
एक योद्धा मे अनुशासन होना चाहिए,  
तो हमे भी अपने अनुशासन को दिखाना है,  
हर नियम का पालन हर वक्त करना है।  
एक योद्धा अपने बुद्धि व बल का सही प्रयोग करता है,  
तो हमे भी अपने बुद्धि और बल का हर संभव प्रयास करना है,  
और कुछ इस तरह हम सबको एक कोरोना योद्धा बनना है,  
और इस कोरोना से लड़ना है।  
तो चलो एक कोरोना योद्धा बन जाते हैं,  
और इस कोरोना की पहचान को मिटाते हैं।

अपूर्वा शेटी

B.E Instrumentation

## रेप केस

सोच वह कितना रोई थी उस रात,  
सोच वह कैसे सोयी थी उस रात,  
अपनी माण, प्रतिष्ठा, आबरु खोयी थी वो जिस रात।  
कोई न जान सकोगे उसके जज़्बात,  
न जान सकोगे उसके हालात,  
कैसे एक दरिंदे ने कर दिया उसको बर्बाद।.....  
किस्को बताती वह यह बात? किस्को जाकर कहती?  
चिट्ठी पर ही लिखकर चली गई, ज्योति,  
"I want to survive!" कह गई देश की वह बेटी।.....  
कहने को तो हम भारत देश में हैं,  
चंद्रयान हमारा अभी भी स्पैस में है,  
परंतु यह कैसे पता करें देशवासियों,  
यहां यह जल्लाद किस भेंस में है।.....  
अपराध के बाद भी यह हाथ नहीं आते हैं,  
ऐसे हालातों में रिश्तेदार भी साथ नहीं आते हैं,  
हम २१वीं सदी में आ चुके हैं, यहां आदिमानव तो नहीं हैं,  
परंतु क्या यह अपराधी दानव नहीं हैं?.....  
क्या यह देश में इंसानियत अब बाकी नहीं हैं,  
इतना सब होने के बाद भी उनको फांसी नहीं है।.....  
इनको लेकर जाना चाहिए जेल में?  
नहीं। यह छुट जाएंगे पैसे देकर बेल में।  
बीच चोराहों पर डालो इनको गर्म-गर्म तैल में,  
इन जैसे को जगह न मिलेगी नर्ग नाही स्वर्ग में।.....  
दोष नहीं होता उसकी उर्म का और ना वर्ष का,  
दोष है उनको नहीं सीखाना सही और ग़लत स्पर्श का।



Saurav Choudhary  
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TE-IT

4

Report

Section

## Faculty Qualification Upgradation



**Dr. Amrita Ruperee**, Associate Professor in Department of Electronics and Telecommunication Engineering. She received her PhD from SNTU University in January 2020. The research is aimed at improving Uplink/ Down link performance of Massive Multiple Input Multiple Output (Massive MIMO) system for the Next Generation Network. Massive MIMO lays the foundation for the evolution of future broadband network with efficient spectrum utilization, which is energy efficient, secure, and robust. The proposed work not only enhances the Uplink/ Downlink SINR, data rate and high spectral efficiency, it also lowers transmission power at the user end and therefore increases battery life. This also addresses environmental as well as health issue related to mobile communication. She has five international research publications at her credit. Three research papers are in conferences and two are in SCI Indexed Journals.



**Prof. Madhavi Harish Waghmare** has successfully completed her PhD (Technology) in Electronics and Telecommunication Engineering from University of Mumbai in month of November 2019. Her area of research is “Enhancement of Bandwidth for Broadband Communication by Using Photonic Bandgap Structure in Optical Fiber”. She has published 11 papers in International Conferences and Journals.

Since 2004, she is working as a faculty and currently Assistant Professor in IT Department (Jan 2015 to Jan 2019, HOD of IT Dept).

## Department of Civil Engineering

I am delighted to present the Annual Report of the Department of Civil Engineering for the academic year 2019-2020. Civil engineering department is dedicated for maintaining and promoting overall development of students through various activities. For upgrading the knowledge and considering recent trends in technology faculty members are promoted to attend various seminars workshops and motivated to do various online courses. The details of faculty achievements during academic year 2019-2020 are listed below.

### Paper Publication

1. Mr. Jaydeep Chougale has participated and presented a paper entitled, "Study on Seismic vulnerability Index Methods for Reinforced Structures" in the International Conference on Emerging Trends in Engineering & Science (ICETES) JCON.

2. Ms. Puja Kadam has published a paper on "Prediction of Coronavirus Covid 19 cases using Linear Regression and Support Vector Machine" in International Journal of Advanced Science and Technology.

3. Ms. Puja Kadam has published a paper on "Treatment of Leachate using Hybrid Constructed Wetlands- A Review Paper" in International Journal of Emerging Technologies and Innovative Research.

4. Ms. Puja Kadam has published paper on "Comparative Analysis of Microbial Fuel Cell Performance fed by Different Wastewaters- A Review" in International Research Journal of Engineering and Technology (IRJET)

### NPTEL and other online courses:

1 Mr. Jaydeep Chougale, Ms. Puja Kadam and Mr. Vikrant Kothari has successfully completed "NBA Accreditation and Teaching- Learning in Engineering (NATE)" in 2019-20

2 Mrs. Puja Kadam attended Online Course on Examination Reforms organized by AICTE from 29/04/2020 to 02/05/2020

3 Mrs. Puja Kadam attended online course on "New-Age tools for teaching Online" from 28/06/2020 to 30/06/2020

4 Mr. Vikrant Kothari attended online course "Online Teaching-Learning Processes using ICT Tools for Education 4.0" by SVP CET Nagpur" from 08/06/2020 to 13/06/2020

## Civil Annual Report 2019-2020

### Seminars/Workshops/STTPs/Orientation Programs Attended:

Sr. No.	Name of Faculty	Date	Title of Professional Development Program	No of days
1	Mr. Jaydeep Chougale	26-05/2020 to 31/05/2020	MS Excel- Basic and Advance by Valia Centre of Excellence	Workshop
2	Mr. Jaydeep Chougale	16/12/2019 to 20/12/2020	Advancement in Concrete Technology by Universal College of Engg., Kaman	STTP
3	Mr. Viren B. Chandshive	25/05/2020 to 29/05/2020	"Innovative Trends In Engineering And Technology"	STTP
4	Mr. Viren B. Chandshive	15/06/2020 to 20/06/2020	SciLab, Thakur College of Engineering and Technology	FDP
5	Mrs. Puja Kadam	06/05/2020 to 11/05/2020	Overcoming the challenges in adapting online technology in Teaching Learning by Jhulelal Institute of Technology	FDP
7	Mrs. Puja Kadam	23/03/2020 to 19/05/2020	Institutional Management and Administrative Procedures	FDP
8	Mrs. Puja Kadam	07/03/2020 to 30/04/2020	Technology Enabled Learning & Life Long Self Learning	FDP
9	Mrs. Puja Kadam	04/06/2020 to 08/06/2020	Scientific Approach to Vastushastra in Building Planning by SITP, Yadrav (Ichalkaranji)	Webinar



## Civil Annual Report 2019-2020

11	Mr. Arbaz M. Kazi	01/06/2020 to 05/06/2020	Program on Quantum Geographic Information System (QGIS) by Don Bosco College of Engineering, Goa	FDP
12	Mr. Jaydeep Chougale, Mr. Viren Chandanshive, Mr. Arbaz Kazi, Mr. Vikrant Kothari, Mrs. Puja Kadam, Mrs. Anu Muralid Mr. Prakash Panda	27/04/2020 to 02/05/2020	Learning Management System by IIT Bombay	FDP
13	Mr. Viren B. Chandshive, Mr. Arbaz M. Kazi	26/05/2020 to 30/05/2020	Advances in Civil Engineering by Nagpur Institute of Technology	FDP
14	Mr. Viren B. Chandshive & Mr. Vikrant Kothari	27/04/2020 to 01/05/2020	“Writing Documents in LaTeX”	WORKSHOP
15	Mrs. Puja Kadam, Mr. Prakash Panda, Mrs. Anu Murali, Mr. Jaydeep Chougale & Mr. Vikrant Kothari	28/04/2020 to 30/04/2020	Education 4.0. by IQAC Cell, Atharva College of Engineering	WORKSHOP
16	Mr. Viren B. Chandshive, Mr. Arbaz M. Kazi Mrs. Puja Kadam, Mrs Anu Murali, Mr. Prakash Panda & Mr. Vikrant Kothari	04/05/2020 to 10/05/2020	Innovation, IPR, Entrepreneurships by Pillai HOC College of Arts, Science and Commerce, Rasayani	FDP

## Civil Annual Report 2019-2020

17	Mr. Arbaz M. Kazi, Mr. Viren B. Chandanshive, Mrs. Anu Murali & Mr. Vikrant Kothari	25/05/2020 to 29/05/2020	Infrastructure Development: Possibilities and Challenges Ahead by New Horizon Institute of Technology and Management, Thane	STTP
18	Mr. Arbaz M. Kazi, Mrs. Anu Murali, Mr. Vikrant Kothari	27/05/2020 to 02/06/2020	Innovation and Upgradation in Infrastructural Technology by Terna Engineering College, Navi Mumbai	STTP
19	Mrs. Anu Murali, Mr. Vikrant Kothari & Mr. Prakash Panda	28/5/2020 to 30/5/2020	Education 4.0 Season II by IQAC, Atharva College of Engineering	WORKSHOP
20	Mr. Arbaz M. Kazi & Mr. Vikrant Kothari	22/05/2020 to 26/05/2020	Formwork Design and Safety Aspects by COEP	FDP
21	Mr. Vikrant Kothari	15/06/2020 to 19/06/2020	Advance Surveying by Padm. Dr DBV Kolte Engineering College, Buldana, Malkapur.	STTP

## Civil Annual Report 2019-2020

**Students achievements :** Department is organizing various events through student chapter to develop various qualities among students and to upgrade knowledge

### GUEST LECTURE/WORKSHOPS ARRANGED

Sr. No	Name of the Event	Date	Duration	Expert person
1	Workshop on Hands on training on FERROCEMENT'	04/07/2019 to 05/07/2019	2 Days	Er. Paranjape
2	Expert Seminar on Software Applications in Various Aspects of Construction Industry	17/10/2019	1 Day	Mr. Prahlad V. Rao
3	ISTE approved STTP on Repairs. Rehabilitation & Retrofitting	17/01/2020 to 21/01/2020	5 Days	Mr. Santosh Gidh, Mr. Nagraj Dinnachinivar, Mr. Mohit Lamba, Mr. Tirtha Baneerjee, Mr. Dada Patil
4	Career Guidance Seminar	07/02/2020	1 Day	Er. Shreedhar Behare
5	Estimation, Costing and Bid Preparation of Construction and All Types of Road Projects Using EasyBids and EasyRoads	28/02/20 to 03/03/2020	5 Days	Mr. Pralhad V. Rao
6	Webinar Lecture Series on Prominent Areas of Civil Engineering	13/05/2020 to 17/05/2020	5 Days	Mr. Kedarnath Ghorpade, Mr. Ratnakar Choudhary, Mr. Harish Babu, Mr. Mohd. Hashim, Dr. Jitesh Chavda
7	Student Development Program on Career Planning and Preparation for Competitive Exam	17/05/2020 to 21/05/2020	5 Days	13 VCET Civil Alumni

## Civil Annual Report 2019-2020

8	Webinar On Advance techniques in Concrete technology	05/06/2020 to 06/06/2020	2 Days	Mr.Sanjeev Raje, Mr.Mahesh Tendukar and Mr.Sadanand Govilkar
9	Webinar on Worldwide Climate Change Post Covid-19	06/06/2020	1 Day	Dr. Atul Balwant Ayare

### TECHNICAL ACHIEVEMENTS

1. Gauravi Alave secured 1<sup>st</sup> Prize in Artsthetic- A Poster making competition at Thakur College of Engineering and Technology
2. Leon Gonsalves successfully completed AIESEC leadership development Experience through a Global Volunteer Opportunity tackling the Sustainable Development Goal Reduced Inequalities at Kyiv, Ukraine.
3. Darshan Mehta, SafiuddinHalim , Gurpreet Marwaha secured 1<sup>st</sup> Prize in Quiz (Civil War) held at St. John College of Engineering and Management, Palghar
4. Darshan Mehta, SafiuddinHalim , Gurpreet Marwaha participated in the “ Bridge making competition” held at St. John College of Engineering and Management, Palghar.
5. Kushal Patel, Sandesh Uttekar, Shreya Ghosalkar, Abhishek Parmar had qualified the Zonal Level and participated in the university level for the Avishkar Competition by Mumbai University.
6. Aditya Tale, Atish Rathod, Clovis Machado and Gaurav Pangam participated in the Avishkar Competition at Mumbai University.

### INDUSTRIAL VISITS

Sr. No.	Class	Date	Visit
1	S.E.	03/10/2019	Gargoti Museum , Nashik
2	T.E.	24/07/2019	Water Treatment Plant, Bhandup, Mumbai
3	T.E.	12/03/2020	Wastewater Treatment Facility, Gokul Township, Virar

# Civil Annual Report 2019-2020

## RESULTS

### B.E.

#### Toppers

Toppers	Names	Pointer
1	Jawarkar Bhushan	9.52
2	Nisar Priyank	9.1
3	Nachanekar Prathamesh	9.06

### T.E.

#### Toppers

Toppers	Names	Pointer
1	Patel Kushal	10
2	Gupta Jayprakash	9.73
3	Jamadar Siraj	9.58

### S.E.

#### Toppers

Toppers	Names	Pointer
1	Yash Jivani	9.89
2	Darshan Mehta	9.85
3	Gurpreet Marwaha	9.33

## PLACEMENTS:

Sr. No.	Name of the Student	Company Name
1	Sushant Shankar Gangia	Infosys
2	Bhavik Rajendra Sankhe	Infosys
3	Smagy Ashok Makwana	Infosys
4	Yogita Bhiva Alave	Infosys
5	Alka Jaipal Singh	Infosys
6	Vaibhavi Dilip Bari	Infosys
7	SanikaTelangan	Khodiyar Group
8	Shreya Ghosalkar	Khodiyar Group
9	Kushal Chandubhai Patel	BYJU's
10	Paras Kamlakar Vairagade	BYJU's

Dr Aswalekar Uday

I/C HOD

## Department of Computer Engineering



It gives me a feeling of pleasure and honor to present the annual report of the Department of Computer Engineering for the academic year 2019-2020.

The year witnessed a blend of academic, co-curricular extra-curricular activities and achievements contributed by students and faculty.

### Workshops attended by faculty:

1. Ms. SweetyRupani and Ms. Sneha Mhatre participated in the 6 Days Faculty Enablement Program on InfyTQ based Foundation Program held online using a webinar platform from 12th to 19th July 2019.
2. Dr. Megha Trivedi, Mr. Anil Hingmire, and Mr. Sunil Katkar visited to Automation Expo 2019 held at the National Exhibition Center, Andheri on 28th September 2019.
3. Dr. Swapna Borde participated in the two-day workshop on "Introduction to Robotics" conducted on 26th and 27th July 2019 held at IIT, Bombay.
4. Mr. Anil Hingmire attended AICTE-ISTE approved two weeks Short Term Training Program on "Scope of IoT for Social Upliftment" conducted from 21st June to 30th June 2019 organized by Department of Information Technology, VCET.
5. Dr. Megha Trivedi, Mr. Sanjeev Vedpathak participated in One day Workshop on R held at VCET on 9th November 2019.
6. Dr. Swapna Borde and Ms. Sangita Chaudhari attended Industry-Academia meet on Data Science organized for directors, Training and Placement officers, Head of Departments, and faculty members on 12th October 2019 at Powai by Board Infinity.
7. Ms. Sangita K. Chaudhari and Mrs. Sneha Mhatre received funding of Rs.15,000/- from the University of Mumbai under Minor Research Grant scheme for their project Solar Tracker
8. Faculty Development Program on "WhatsApp Outcome Based Education" was attended by 2 faculty members from 24th March to 14th April 2020.
9. Faculty Development Program on "Latex" was attended by 2 faculty members from 17th April 2020 to 30th April 2020.
10. Faculty Development Program on "Moodle Learning Management System" was attended by 8 faculty members from 27th April 2020 to 4th May 2020
11. Faculty Development Program on "R Programming" was attended by Dr. Swapna Borde from 27th April to 2nd May 2020.
12. Faculty Development Program on "Data Science" was attended by 2 faculty members from 30th April to 4th May 2020.
13. Faculty Development Program on "Teaching Learning" was attended by Mr. Anil Hingmire from 6th May 2020 to 11th May 2020.
14. Faculty Development Program on "Decoding Examination during and post COVID- 19" was attended by 3 faculty members on 8th May 2020.
15. Faculty Development Program on "Research, Funding Projects and IPR"

was attended by Ms. Smita Jawale from 7th May 2020 to 10th May 2020.

16. Faculty Development Program on “PHP and MYSQL” was attended by 2 faculty members from 18th May to 23rd May 2020.

17. Faculty Development Program “Prayog-VLab Experiments on Click” was attended by 5 faculty members from 18th May to 27th May 2020.

18. Faculty Development Program on “Spoken Tutorial Technology” was attended by Ms. SmitaJawale from 18th May 2020 to 23rd May 2020.

19. Short Term Training Program on “Artificial Intelligence” was attended by Ms. SnehaMhatre from 22nd May 2020 to 23rd May 2020.

20. Faculty Development Program on “Learning in IT” was attended by 2 faculty members from 25th May to 29th May 2020.

21. AICTE-ISTE Short Term Training Program on “NLP and Deep Learning” was attended by 8 faculties from 22nd June to 26th June 2020

22. Dr. Megha Trivedi successfully completed AICTE approved SWAYAM NPTEL course on Robotics with a consolidated score of 87%

23. NPTEL-AICTE Faculty Development Program on “NBA Accreditation and Teaching-Learning in Engineering” was successfully completed by 5 faculty members from 27th Jan to 17th April 2020

24. Ms. Smita Jawale successfully completed AICTE approved SWAYAM NPTEL course on Software Engineering

**STTP organized by the Department:**

- AICTE-ISTE approved One Week Short Term Training Program on

“Emerging Trends in Operation Research” was conducted from 24th June to 29th June 2019. Convener: Dr. Swapna Borde

Co-ordinator: Mr. Vikrant A. Agaskar  
Highlights of Programme:

- Python Basics & Object Oriented Programming using Python.
- Data Structure & File Handling in Python.
- GUI Programming and Database Operations in Python.
- Network and Web Programming using Python.
- Basic & Advanced Perl.

- AICTE-ISTE approved One Week Short Term Training Program on “Natural Language Processing & Deep Learning” was conducted from 22nd June to 26th June 2020.

Convener: Dr. Megha Trivedi  
Co-ordinator: Dr. Swapna Borde

Prof. Anil Hingmire Highlights of Programme:

- Data Analytics through Machine Learning
- Machine Learning for Cyber Security
- Deep Learning & Applications
- Introduction to NLP
- NLP for Indian Languages Research trends in NLP

**Guest Lectures organized in the Department:**

1. A Student Development Program on “SDP on Big Data Analytics” was conducted from 1st July to 5th July 2019 by Mr. Pranav Dave, Mr. Ganesh Shinde.

2. Seminar on “Career Guidance” was conducted on 9th & 10th July 2019 by Mr. Pranav Dave, Mr. Ganesh Shinde.

3. Guidance Session on “Life Skills” was conducted by Dr. Poonam Surange on 30th July 2019

4. Seminar on “Improving Coding Skills” was conducted by Ms. Najiba Halim on 28th August 2019.

5. Seminar on “Internship” was conducted by Ms. Sweety Rupani on 20th September 2019.

6. Guest Lecture on “Artificial Intelligence” was conducted on 7th Oct. 2019 by Mr. Hemant Tendolkar.

7. A Student Development Program on “Blockchain Technology” was conducted on 16th to 20th Dec 2019 by Mr. Jetso Analin

8. Guest Lecture on “Machine Learning” was conducted on 30th Jan 2020 by Mr. Mustafa Fatakawala.

9. Webinar on “Gearing up for GATE” was conducted by Mr. Utkarsh Joshi, Mr. Nikhil Agrawal, Ms. Soumya Jain on 18th May 2020

10. Webinar on “Backtracking Approach” was conducted by Ms. Prateeksha Singh on 19th May 2020.

11. Webinar on “Internet of Things” was conducted by Mr. Sachin Sadre on 20th May 2020.

12. Webinar on “Blockchain Technology” was conducted by Mr. Amey Tambe on 21st May 2020.

13. Student Development Program on “Bootcamp on Competitive Coding” was conducted online from 08th May to 13th May 2020.

#### **Activities by Bit- Byte-Go CodeChef Student chapter**

1. A seminar on Placement Preparation was conducted on 1st Oct. 2019 by Ms. Gauri Bodke and Mr. Ronith Sinha

2. Coding Competition 2020 was conducted by CodeChef-Bit-Byte-Go on 24th Jan. 2020

3. A 12-hour online coding competition Codeathon was organized with the initiative of

Dr. Swapna Borde and Ms. Sweety Rupani on 15th June 2020

#### **ABACUS’19:**

Staff In-charge: Prof. Sangita Chaudhari

Abacus’19 creating a platform for our students to exhibit and showcase their innovative ideas on topics like

- Earthquake Detector
- Solar Tracker using Arduino
- Obstacle Avoiding Car
- Self-Balancing Robot
- Supply Chain Marketing

#### **CSI Activities:**

CSI Branch Counsellor: Prof. Sangita Chaudhari

1. Workshop on “Android App Development” was conducted on 5th Oct. 2019 by Mr. Yadnesh Zagade, Mr. Karon Nagarkar.

2. “DevOps Workshop” was conducted on 7th March 2020 by Mr. Nileshkumar Challani, Mr. Saikrishna Nalla.

3. A seminar on “Machine Learning” was conducted on 12th March 2020 by Mr. Manish Kaushik, Mr. Ali Mustafa Shaikh.

#### **BYTE newsletter and e-Magazine:**

Staff In-charge: Mr. Vikrant A. Agaskar

Two editions of the Byte newsletter showcasing the articles on the latest technological advancement contributed by the students were published.

Technical e-Magazine of Computer Engineering Department was released as a flipbook, in a fresh, youth-friendly



look; which showcased information about inventions and new technologies in the field of Computers. Few topics covered in issues are:

- Latest Games
- Latest Hardware— Ryzen 3000, Intel Comet Lake processors
- Latest smartphones
- Latest advances in the field of Artificial Intelligence

**Paper Publication:**

1. Paper on “Intelligent Helmet and Motorcycle using MSP430 for identifying Accident and Outbreak occurrence” was published by Dr. Megha Trivedi in International Journal of Advances in Engineering and Management (ISSN-2395-5252).
2. Paper on “Maintaining Liquid Level in MultiLoop Process Trainer Using ADAM- 4022T PID Controller” was published by Dr. Megha Trivedi in International Journal of Advances in Engineering and Management (ISSN-2395-5252)
3. 17 other papers were presented at VNC-TASU International Conference organized by Vidyavardhini’s College of Engineering & Technology.

**Students Achievements:**

**Placements on Campus (2019-2020):**

Company Name	Number of Students Placed
Infosys	33
LTI	14
TCS	23
Media.net	5
Amazon AWS	2
Zeus Learning	1
BNP Paribas	2
IBM	3
Atos-Syntal	1
Feedspot	2
Vistaar	1
Cognizant	5
NeoSoft Technologies	1
Capgemini	2
Byju's	3
Endurance International Group	1
Neebal	2

**Internships:** Around 100 students completed internships at reputed organizations under various projects/assignments.

**Results for Academic Year 2019-2020:**

**BE Result: Sem. VII - 95.83%**

**Sem. VIII - 100%**

**Toppers:**

1. Vaidya Swapneel 9.59 CGPI
2. Khuman Parag 9.50 CGPI
3. Rao Kritika 9.44 CGPI
3. Jain Ritik 9.44 CGPI

**TE Result: Sem. V –90.27 %**

**Sem. VI – 98.61%**

**Toppers:**

1. Gupte Tapasya 9.705 SGPI
1. Vartak Jui 9.705 SGPI
2. Vartak Jai 9.63 SGPI
3. D’mello Mellisa 9.48 SGPI

**SE Result: Sem. III –64.86 %**

**Sem. IV – 94.59 %**

**Toppers:**

1. Bhingle Abhishek 10 SGPI
2. Mittal Harsh 9.845 SGPI
2. Rathod Aniket 9.845 SGPI
3. Fegade Viresh 9.83 SGPI

**FE Result Sem. I -61.10 %**

**Sem. II- 97.67% %**

**Toppers:**

1. Singh Mohit 9.915 SGPI
2. Dubey Adarsh 9.73 SGPI
3. Jadhav Avdhoot 9.64 SGPI

### **Technical Achievements:**

1. Mr. Amit Yadav (TE-COMPs) secured 2nd Prize in CodeChef: Coding Contest as a part of BitByteGo organized by Vidyavardhini's College of Engineering & Technology.

2. Mr. Tejas Kachare (TE-COMPs) secured 3rd Prize in CodeChef: Coding Contest as a part of BitByteGo organized by Vidyavardhini's College of Engineering & Technology.

3. Ms. Kritika Rao, Ms. Pooja Yelkar, and Mr. Omkar Pise presented their project "Machine Learning in Skincare" at the 14th state-level Avishkar Research Convention organized by the University of Mumbai and won Best Paper Award at VNC-TASU 2020.

4. Ms. Malvika Nair, Ms. Pooja Nayaka, Ms. Jinisha Karuvath, presented their project "Smart Healthcare System" at the 14th state-level Avishkar Research Convention organized by the University of Mumbai.

5. Mr. Aditya Yadav, Mr. Amit Yadav, Mr. Keval Shah, Mr. Divyanshu Gupta, Mr. Sagar Poojary, Mr. Meet Thakkar, Mr. Mihir Poliwai, Mr. Tejas Kachare, Mr. Vandan Sawant (TE) qualified stage I of eYantra Robotics Competition 2020 (Theme-SUPPLY BOT ) organized by IIT Bombay.

6. Ms. Bhumit Malvi, Mr. Ved Kokane, Mr. Ritwik Vedpathak, Mr. Sanket Suhagiya (SE) qualified the semi-final round of eYantra Robotics Competition 2020 (Theme- BOT RAPID RESCUER) organized by IIT Bombay.

7. Mr. Anand Tiwari, Mr. Pushakr Save, Mr. Mihir Thakkar (SE) qualified stage I of eYantra Robotics Competition 2020( Theme-Construct-O-Bot) organized by IIT Bombay

8. Mr. Vidit Sheth, Mr. Atul Mishra, (FE) Mr. Viresh Fegde, Mr. Sanket Suhagiya (SE) and Mr. Archit Naik, Mr. Aakash Patil, Mr. Prasad Nijai, Mr. Vandan

9. Sawant , Mr. Ankit Patil (TE) secured 1st position (VCET Solethon ) at NSVC-2020 (Dynamic Round), VNIT, Nagpur.

10. Mr. Ritwik Vedpathak and Mr. Pritish Mair secured 3rd position ((VS-Pratibimb) at NSVC-2020 (Dynamic Round), VNIT, Nagpur.

**Dr. Megha Trivedi**

HOD

Computer Engineering

## DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING



It gives me immense pleasure and satisfaction to present the report of the activities in EXTC department for the academic year 2019-20

### Faculty Achievements:

#### • Paper published/presented/accepted in Journals and National/International Conferences:

**Dr. Vikas Gupta** has presented the paper on “Path Loss Models for 5G Millimetre Wave in Urban microcells at 60 GHz” in International Conference on computing technologies for transforming the Automated World (ICCTAW) organised by Atharva College of Engineering.

**Prof. Amrita Ruperee:** Paper on Enhancing Uplink/Downlink Performance of Massive MIMO System Using Time-Shifted Pilot signal Transmission with Pilot Hopping (TSPTPH) has been accepted by Inderscience Publisher

**Prof. Neha Gharat and Prof. Ekta Naik** presented paper on “8:1 RADIO FREQUENCY HIGH POWER COMBINER” and published in proceedings of International Conference on Electronics and Sustainable Communication System (ICESCS20) and IEEE.

**Prof. Sandhya Supalkar and Prof. Ekta Naik** presented paper on “Smart Tutor for Visually Impaired Beginners” in VNC 2020.

Dr. Vikas Gupta, Kajal Bari, Anagha Raut, Bhakti Desai, presented paper on, “Automated Footbridge Across Platform At Railway Station” in VNC 2020.

Dr. Vikas Gupta Asmita Khapare, Mugdha Raut, Pranjal Sudha, presented a paper on “Real Time Digital Display Notice Board On Multiple Screens” in VNC 2020.

Dr. Amrita Ruperee, Ajay More, Omkar Samant, Yash Kumthekar presented a paper on, “Curation of a Low-cost Scalable BCI system” in VNC 2020.

Prof. Sunayana Jadhav, Alok Dubey, Amit Bhagat, Manoj Thakur, Vibha Parab presented a paper on, “Design of a Data Transmission Unit for an Autonomous Vehicle” in VNC 2020.

Prof. Shaista Khanam, Garvit Garg, Umang Waghela, Pratik Waghela presented a paper on, “Electronic Hardware Design of Autonomous Vehicle” in VNC 2020.

Prof. Shaista Khanam, Ashwini Rahtod, Gauravi Shetty, Deeksha Kamat presented a paper on, “Smart Energy Meter” in VNC 2020.

Prof. Shraddha Gosavi, Sahil Patil, Shubham Mantri, Dhananjay Bhavsar presented a paper on, “Self Balancing Robot” in VNC 2020.

Prof. Shraddha Gosavi, Mrunal Pawar, Urja Patil, Nikita Joshi presented a paper on, “IoT based VertiCrop monitoring and controlling” in VNC 2020.

Prof. Ashwini Katkar, Snehal Sutar, Shreya Teli, Pankaj Gupta presented paper on, “Life Saving System from Harmful Gases in Sewage System” in VNC 2020.

Prof. Ashwini Katkar, Snehal Sutar, Shreya Teli, Pankaj Gupta presented paper on, “Life Saving System from Harmful Gases in Sewage System” in VNC 2020.

Prof. Ekta Naik, Sakshi Dhanmeher, Mital Dodiya, Saili Sakpal presented a paper on, "A Step towards Sustainable Development using Neural Network" in VNC 2020.

Prof. Ekta Naik, Priti Rane, Karthik Shetty, Shubham Gaikwad presented a paper on, "Smart Shoes -Fitness and Energy Generation" in VNC 2020.

Prof. Trupti Shah, Akshaykumar Pillai, Akash Dhayalkar, Meghan Yesji, presented paper on, "Automation using deep learning and image recognition" in VNC 2020.

#### **Resource Speaker:**

- Dr. Vikas Gupta was resource person at TIT, Bhopal for TEQIP FDP Signals and Systems.

- Dr Vikas Gupta was resource person for panel discussion in symposium at BITS Hyderabad.

- Prof. sunayana Jadhav and Prof. Trupti Shah has Conducted the seminar on "Verilog" under VCET IETE SF on 20th Jan 2020 to 23rd Jan 2020.

- Prof. Shaista Khan and Prof. Trupti Shah has Conducted the workshop on hands on training on "Embedded system and IOT " under Texas instruments from 2nd to 4th March 2020.

- Prof. Shaista Khan and Prof. Trupti Shah has Conducted workshop on 3rd n 4th February in RGIT college on "IOT and Raspberry Pi".

- Prof. Shaista Khan and Prof. Trupti Shah has Conducted workshop on hands on training on "Embedded systems and IOT" under Texas instruments innovation lab from 18th to 20th October 2019 in VCET.

- Prof. Shaista Khan and Prof. Trupti Shah has Conducted workshop in RGIT EXTC department On "Embedded System, IOT and DSP" from 19th and

20th August 2019.

- Prof. Shaista Khan and Prof. Trupti Shah has Conducted "Arduino workshop" under IEEE SB on 26th Feb, 2020.

- Prof. Shaista Khan and Prof. Trupti Shah has Organised a one Week AICTE ISTE STTP on " Emergency Trends in Embedded System and DSP Application" from 1st July to 6th July 2019.

- Prof. Shaista Khan Conducted guidance seminar for TI IICDC 2019 competition on 14th October 2019.

#### **Staff Achievements:**

- Prof. Shaista Khanam & Prof. Trupti Shah got minor research grant 30000/- on title of " Smart Solar Tracker with IoT based Energy Monitoring System "

#### **Distinguished Members:**

- Dr. Vikas Gupta has been appointed as an IETE Mumbai EC member as Hon. Treasurer.

- Dr. Vikas Gupta has been appointed as a member of Board of studies for Electronics Engineering in University of Mumbai.

- Dr. Vikas Gupta worked as a member of syllabus committee for subject Signals & System/sem III and also for the subject Network Theory /sem III.

- Dr. Vikas Gupta worked as a member of syllabus committee for subject circuit Theory/sem III of Electronics Engineering.

- Dr Amrita Ruperee worked as a member of syllabus committee for subject Principles of Communication Engineering/sem III.

- Prof. Shaista Khanam worked as a member of syllabus committee for subject Mini Project 1b- Arduino and raspberry pi project/ sem III.

### **Faculty Qualification Upgradation:**

**Dr. Amrita Ruperee**, Associate Professor in Department of Electronics and Telecommunication Engineering. She received her PhD from SNTD University in January 2020. The research is aimed at improving Uplink/ Down link performance of Massive Multiple Input Multiple Output (Massive MIMO) system for the Next Generation Network. Massive MIMO lays the foundation for the evolution of future broadband network with efficient spectrum utilization, which is energy efficient, secure, and robust. The proposed work not only enhances the Uplink/ Downlink SINR, data rate and high spectral efficiency, it also lowers transmission power at the user end and therefore increases battery life. This also addresses environmental as well as health issue related to mobile communication. She has five international research publications at her credit. Three research papers are in conferences and two are in SCI Indexed Journals.

### **Publications at International Conferences:**

1. "Fractional Frequency Reuse to Enhance Down Link Performance in MU Massive MIMO" IEEE International conference on Wireless Communications, Signal Processing and Networking (WISPNET), Chennai, India.
2. "Improving the Performance of DL Massive MIMO in The Presence of Composite Fading" IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT), IEEE Bangalore section, Karnataka, India.
3. "Asynchronous Pilot Transmission with Pilot Sequence Hopping for Improved Channel Estimation in Massive

MIMO System" IEEE International Conference on Recent Innovation in Signal Processing and Embedded System (RISE), MANIT, Bhopal, India.

### **Publications in Journals:**

1. "Time Shifted Pilot Signal Transmission with Pilot Hopping to Improve the Uplink Performance of Massive MIMO System For Next Generation Network" KSII Transaction on Internet and Information System vol. 13, no. 9, Sep. 2019.
2. "Enhancing Uplink/ Downlink Performance of Massive MIMO System Using Time-Shifted Pilot signal Transmission with Pilot Hopping (TSPTPH)" International Journal of Wireless and Mobile Computing (IJWMC), Inderscience Publishers.

### **FDP/STTP/ Training/Webinar Organized:**

- Department of EXTC has organized four days Webinar series on "Technological Advancement in the field of Electronics and Communication Engineering" in association with VCET IEEE SB and IETE SF from 7th May to 9th May 2020.
- Department of EXTC has organized "Discussion Forum What after BE?" for SE, TE and BE EXTC students of VCET on 19th May 2020.
- Online Quiz "ILTT- International TECH TRIVIA" (2nd June – 5th June 2020) in association with IEEE VCET student branch was organized by EXTC department.
- Webinar series "Vogue of Embedded Systems" in association with Texas Instrument Innovation Lab was organized from 27th May to 29th May 2020 by EXTC department.

**FDP/STTP/ Training attended:**

- Dr. V. Gupta attended a 4 days webinar on “Education 4.0” organized by Atharva College of Engineering.
- Dr. V. Gupta and Prof. Ekta Naik attended a 5 days training program on AC and DC Drives organized by Siemens from 1st July to 5th July 2019.
- Dr. V. Gupta and Prof. Ekta Naik attended a 5 days training program on Siemens S7 1200 PLC Drives organized by Siemens from 8th July to 12th July 2019.
- Prof. Shaista Khanam, Prof. Shradha Gosavi, Prof. Sandhya Supalkar Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik and Prof. Trupti Shah attended one day workshop on eSim, a First Course in the IoT series for teachers organized by Teaching and learning centre, IIT Bombay on 21st Sept 2019.
- Prof. Shaista Khanam, Prof. Shradha Gosavi, Prof. Sandhya Supalkar, Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik, Prof. Trupti Shah attended one day workshop on Arduino on 8th Feb 2020 organized by IIT Bombay.
- Prof. Shaista Khanam, Prof. Shradha Gosavi Prof. Sandhya Supalkar, Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik, and Prof. Trupti Shah attended a one day workshop on Python on 22 June 2019 organized by IIT Bombay.
- Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof. Neha Gharat, attended a one day workshop on R language on 9th Nov. 2019 organized by Teaching and learning Centre, IIT Bombay.
- Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof.

Neha Gharat, attended a one day workshop on R language on 9th Nov. 2019 organized by Teaching and learning Centre, IIT Bombay.

- Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof. Sandhya Supalkar Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik, Prof. Trupti Shah and Prof. Mamta Patil attended a WhatsApp OBE FDP on Outcome Based Education organized by D.Y. Patil College of Engineering, Akurdi, Pune from 24th March 2020 to 14th April 2020.
- Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof. Shradha Gosavi, Prof. Sandhya Supalkar Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik and Prof. Trupti Shah attended a Spoken Tutorial on Moodle Learning Management System organized by IIT Bombay in May 2020
- Prof. Sandhya Supalkar successfully completed 12-week NPTEL course on “Microelectronics: Devices and Circuits” with a consolidated score of 79% (silver Elite) in October, 2020
- Prof. Neha Gharat successfully completed a 12 weeks NPTEL course on “Microwave and Theory Techniques” with a consolidated score of 79% (silver Elite) in October, 2020
- Prof. Ashwini Katkar successfully completed 12 weeks NPTEL course on “Fiber Optic Communication Systems”
- Prof. Mamata Patil successfully completed a NPTEL course on “Matrix Analysis with applications” with a consolidated score of 75% in October, 2020.
- Prof Shaista Khanam successfully completed 12 weeks NPTEL course on

**“IoT and Applications”.**

• Prof. Trupti Shah successfully completed 12 weeks NPTEL course on “IoT and Applications” with a consolidated score of 75% (silver Elite) in October, 2020

• Prof. Shaista Khanam, Prof Shrad-dha Gosavi, Prof. Sandhya Supalkar Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik and Prof. Trupti Shah completed a two-week faculty development program on Virtual lab organized by Instrumentation Department, VCET in association with COEP from 18th May to 27th May 2020.

• Prof. Shaista Khanam, Prof. Neha Gharat, Prof. Ekta Naik and Prof. Trupti Shah completed training on MATLAB Onramp by MathWorks Training services

• Prof. Shaista Khanam, Prof. Neha Gharat, Prof. Ekta Naik and Prof. Trupti Shah completed Python Training organized by has successfully completed Python 3.4.3 test organized at Anjuman-I-Islam's Kalsekar Technical Campus by School of Engineering with course material provided by the Spoken Tutorial Project, IIT Bombay

• Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof Shrad-dha Gosavi, Prof. Sandhya Supalkar Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik, and Prof. Trupti Shah attended Webinar series on Recent Trends in Instrumentation, Control & Automation organized by Instrumentation Department, VCET in May 2020.

• Prof. Ashwini Katkar completed Workshop on “Effective and Efficient Online Teaching in the age of Corona” hosted by IITB in May 2020.

• Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof. Shrad-dha Gosavi, Prof. Ashwini Katkar, Prof. Neha Gharat, Prof. Ekta Naik, and Prof. Trupti Shah attended Webinar “Online National Level FDP on Decoding Examination During and Post COVID 19” in May 2020.

• Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, Prof. Neha Gharat and Prof. Trupti Shah Webinar on “IPR for revenue generation” organized by A. C. Patil COE Navi Mumbai in May 2020.

• Prof. Sandhya Supalkar attended a four days FDP on “Research, Funding, Projects and IPR” organized by K.C College of Engineering in May, 2020.

• Prof. Mamata Patil participated in the webinar on “THE MAN WHO KNEW INFINITY” organized by Department of Mathematics, St. Xavier’s College for Women, Aluva, Kerala on 26th April, 2020.

• Dr. Amrita Ruperee, Prof. Sunayana Jadhav, Prof. Shaista Khanam, and Prof. Trupti Shah attended webinar on “MATLAB based Teaching-Learning in Mathematics, Science & Engineering” organized by RAIT, Nerul in May 2020.

• Prof. Shrad-dha Gosavi, Prof. Ashwini Katkar, Prof. Ekta Naik, and Prof. Trupti Shah webinar series on “IT and IPR 2020” organized by IQAC, Shree. L. R. Tiwari College of Engineering, in May 2020.

• Prof. Shaista Khanam, Prof. Shrad-dha Gosavi, Prof. Neha Gharat, Prof. Ekta Naik and Prof. Trupti Shah attended a Webinar on “Machine Learning” organized by IETE PANTECH in May 2020.

**Students Achievements:**

## • Placement Record

Total Students placed: 33

Total offers: 53

17 in Infosys, 6 in TCS, 5 in Cognizant, 3 in Byjus, 2 in Capgemini, 3 in IBM, 2 in Wipro, 1 in LTI, 2 in Feedspot.

**Aademic Results:**

• BE DEPT. RESULT = 100%

• TE V SEM RESULT = 71.64%

VI SEM RESULT = 86.36%

• SE III SEM RESULT = 56.41%

IV SEM RESULT = 70.12%

**ZEAL 2020:**

EXTC Dept.	Winner	Natyam
EXTC Dept.	Winner	Street Play
Ashwini Rathod, Gauravi Shetty (TE EXTC)	Winner	Dumb Charades
Gauravi Shetty, Ashwini Rathod, Deeksha Kamath	Winner	Dumb Charades
Hritik Gaikwad, Deepak Shivgan, Kunal Patwa, Shreyas Ubale, Shubham Gurav	Winner	AD-Mad Show
Viraj Rasal, Chinmay Mhatre	Winner	Neon Football
Shamini Iyer	Runner Up	Popular Vocals
Shamini Iyer, Aishwarya Nair	Runner Up	Duet Singing

**SPORTS 2020:**

BE EXTC	Winner	Rink Football
Raj Pandya TE EXTC	Winner	Chess Singles (Boys)
Parth Waikul	Winner	Carrom Singles (Boys)
Shriraksha SE EXTC	Winner	shot put girls
Raj Pandya, Brijesh Shukla, Shubham Mantri	Winner	Chess Departmental
EXTC Dept.	Runner ups	kabaddi (intra) girls
EXTC Dept.	Runner ups	kabaddi (intra) boys
Parth Waikul, Shreyash Ubale	Runner ups	Carrom Doubles(Boys)
Raj Pandya, Brijesh Shukla	Runner-Up	Chess Teams
Sakshi Dhanmeher	Runner-Up	Table Tennis Singles(Girls)

**Other Events in VCET:**

Sakshi Dhanmeher, Mital Dodiya, Sali Sakpa	First Winner	Paper Presentation in VNC 2020
Ashwini Rahtod, Gauravi Shetty, Deeksha Kamat	First Winner	Paper Presentation in VNC 2020



### **Student Association Activities:**

#### **VCET IEEE SB, VCET IETE SF and ETA Activities:**

- VCET IETE SF and VCET IEEE SB has organized Industrial Visit to Amul Dairy 23-Aug. for T.E. students.
- VCET IEEE SB organized Seminar on “Seminar on Microwave Engineering a” by Dr Harish Dixit on 29th August 2019 for BE students.
- VCET IETE SF and VCET IEEE SB has organized “Product Showcase’ on 19 August 2019.
- VCET IETE SF and VCET IEEE SB has organized Drone workshop by Drona Aviation & Eduvance” on 28th Sept. 2019
- VCET IEEE SB celebrated IEEE day on 1st August, 2019 by conducting an interactive session for the students of N.G. Vartak Jr. College. A seminar was conducted on the topic “Communication Engineering: The Essence of Technology”
- A seminar was conducted by VCET IEEE SB for the students of VCET to guide them for their career after engineering. The speaker of the seminar was Ms. Swati Khedkar, who works as a Business Consultant at Deflytics on 24th Jan.2020.
- VCET IETE-SF organized a seminar on scope in VLSI after engineering, dated 27 January, 2020. It was conducted by Mr. Chaitanya Amin.
- VCET IEEE SB conducted a seminar on the importance of research for under graduate students. The seminar was delivered by Dr. Satyanarayana, TIFR Scientist on 06/02/20.
- VCET IEEE SB committee of EXTC department organized a 2-day workshop on Arduino. The workshop was

conducted by two experts, Prof. Shaista Khan and Prof. Trupti Shah on 26/02/20.

- VCET IEEE SB committee of EXTC department organized FE QUIZ on 3rd March 2020.
- VCET IEEE SB conducted Embedded Systems and IoT Training
- Dept. of EXTC in association with VCET IEEE SB and VCET IETE SF conducted a series of Webinars on Technological Advancements in the field of Electronics and Communication Engineering from May 5 to May 9, 2020.
- Dept. of EXTC of VCET in association with VCET IEEE SB organized a Tech Intellect quiz from Basic to Advance Level from June 2 to June 5, 2020.
- Texas Instruments organized the Embedded Systems and IoT Training, by Ms. Shaista Khanam and Mrs. Trupti Shah from 2nd March to 5th March 2020.
- VCET IETE SF organized Industrial Visit to Tata Institute of Fundamental Research (TIFR) for BE and TE students on 14th March 2020
- ETA published annual technical magazine “Pulse 20” on 27th June 2020.

### **Student’s Performance in Competitive Exams:**

#### **GATE Qualified:**

1. Sourodipto Das - 30.67
2. Komal Saini - 30.67
3. Shubham Mantri - 27

**Dr. Vikas Gupta**  
HOD, EXTC

## Department of Instrumentation Engineering



Dear Members,

Welcome to the AY 2019-2020 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.

1. Internal- two week Internship conducted by Dr. Megha Trivedi, Prof. Prafulla Patil, Prof. Vishal Pande & Prof. Vidya Pamale. Students from other department were also participated along Instrumentation department students. All students awarded completion certificates.

2. Aurdino workshop was conducted by Dr. Megha Trivedi, Prof. Prafulla Patil, Prof. Vishal Pande & Prof. Vidya Pamale for the students of 12th Science stream. Around 200 students were participated. During workshop students were given introduction about Aurdino & seen projects implemented using Aurdino.

3. AVEVA training course was organized by Dr. Deepak Gawali, Prof. Kanchan Sarmalkar, Prof. Deepti Patne, Prof. Mugdha Salvi & Prof. Trupti Furia during the vacation for 3 batches with 10 students in each batch. Department generated Rs. 16,825 revenues from these courses which includes Rs. 7438 as consultancy contribution by the courses organizers.

4. Industrial visit to Bisleri, Andheri was organized by Prof. Kanchan Sarmalkar, Prof. Deepti Patne & Prof. Mugdha Salvi for the BE students on 27/09/2019

5. Expert lecture on AE & DE for the students is organized by Prof. Prafulla Patil & Prof. Vishal Pande on 30/09/2019.

6. Under the banner of VLAB Nodal center, VCET Seminar was conducted by Prof. Prafulla Patil & Prof. Vishal Pande for the SE students of all departments.

7. Expert lecture organized by Prof. Deepti Patne by our Alumni Mr. Abhishek Tiwari, Project Manager, Siemens for TE/BE class on 30/10/2019.

8. Industrial visit to RCF, Chembur was organized by Prof. Kanchan Sarmalkar for BE students on 05/10/2019.

9. Industrial visit to Vasai Industry was organized by Prof. Deepti Patne & Prof. Mugdha Salvi for the SE/TE students.

10. Prof. Kanchan Sarmalkar, Prof. Prafulla Patil and Prof. Vishal Pande successfully completed Professional Siemens Training on "TTT Program" for "Basic Drives" and "S7 1200 PLC" under Siemens Centre of Excellence.

11. SIEMENS training course was organized by Prof. Prafulla Patil and Prof. Vishal Pande

12. Prof. Prafulla Patil, Prof. Vishal Pande & Prof. Vidya Pamale successfully completed NPTEL course.

13. STTP attended by Dr. Deepak Gawali, Prof. Prafulla Patil, Prof. Vishal Pande, Prof. Trupti Mane Furia & Prof. Vidya Pamale.

14. Prof. Vishal Pande delivered an expert lecture on Revolutionary Techniques for the Optimization at PREC Loni.

15. Prof. Prafulla Patil, Prof. Vishal Pande & Dr. Megha Trivedi conducted one day workshop on Arduino for 12th standard Science background students of Vartak college.

16. Ms. Poonam Surange conducted a seminar for Second year students on Life skills of Students.

17. Prof. Prafulla Patil attended an orientation program on PE & CSR an institute level elective subject for final year.

18. Prof. Trupti Mane Furia attended an International Symposium as an Editorial Chief organized by ISA.

19. Dr. Pradip Gulbhile attended an orientation program on PCE subject of first year.

20. Prof. Kanchan Sarmalkar, Prof. Mugdha Salvi & Prof. Deepti Patne attended Innovation day and EduMeet organized by B&R Automation at Pune.

21. Dr. Megha Trivedi and Prof. Vishal Pande completed three year MOU process with M/S ALOT Process Instrumentation Pvt. Ltd.

22. Project guided by Prof. Mugdha Salvi received Best Paper Award for their paper "Iot Based Patient Health Monitoring System" under track number 12: Recent developments in Instrumentation, control and automation in On-line VNC TASU 2020 on 27/06/2020.

#### **Faculty Publications:**

1) Dr. Deepak Gawali published conference paper "A B-spline Global Optimization Algorithm for Optimal Power Flow Problem." In WCGO 2019: Optimization of Complex Systems: Theory, Models, Algorithms and Applications.

2) Dr. Deepak Gawali published conference paper "B-spline Krawczyk

Approach for Solving Polynomial Systems." In Vidyavardhini's National Conference.

3) Prof. Prafulla Patil, Prof. Vishal Pande and Prof. Vidya Pamale published journal paper "Maintaining Liquid Level in MultiLoop Process Trainer Using ADAM-4022T PID Controller." In International Journal for Advances in Engineering and Management.

4) Prof. Prafulla Patil, Prof. Vishal Pande and Prof. Vidya Pamale published journal paper "Intelligent Helmet and motorcycle using MSP430 for identifying accident and outbreak occurrence." In International Journal for Advances in Engineering and Management.

#### **Department Successfully completed following events:**

1) TechTalk 2020, A webinar series from the Desk of Industry Experts, from 13th to 15th May 2020, Coordinators were Prf. Kanchan Sarmalkar, Prof. Deepti Patne and Prof. Trupti Furia

2) A Two Week Faculty Development Program on Virtual Labs, From 18th to 27 May 2020, Coordinators were Prof. Mugdha Salvi, Prof. Prafulla Patil, Prof. Vishal Pande and Prof. Vidya Pamale.

3) A Full Time AICTE-ISTE approved Self Financing Refresher Programme, A Two Week National Level Faculty Development Program on PLC & SCADA Training, from 1st to 12th June 2020, Coordinators were Prf. Kanchan Sarmalkar, Prof. Deepti Patne , Prof. Trupti Furia and Prof. Sandeep Pawar

4) ISA Students Chapter & Forum for Instrumentation, conducted An On-line Two Week International Student Internship Program Based on PLC & SCADA Training, from 8th to 19th June 2020, Coordinators were Prf. Kanchan Sarmalkar, Prof. Deepti Patne , Prof. Trupti Furia and Prof. Sandeep Pawar

5) Virtual Lab Nodal Center-17 conducted A Two Week National Level Students Development Programme on Virtual Labs, from 22nd June to 3rd July 2020, Convener was Prof. Prafulla Patil, Nodal officer Vlab(NC-17) Prof. Vishal Pande and Coordinator Prof. Vidya Pamale

**Students Achievements:**

1) Mr. Kamlesh Lohar from final year is shortlisted for the final round of National Engineering Olympiad 2020 also achieved First Runner-up (2nd Position) in Intech Olympiad 2020 which is a National level competition organized by COE Pune.

2) Mr. Sanil Jain has won First Prize in MIND CLASH – An Intercollegiate Technical Debate organized by IEEE SFIT Student Branch of St. Francis Institute of Technology, Mumbai on 29th February 2020.

3) Mr. Mayurbhai Dhaduk and Mr. Harinarayan Jaiswal both from second year participated in National level online project competition TECH-PRO sponsored by Findability Sciences, In partnership with RedHat. and also passed the round-1 and entered in final round.

4) Mr. Gaurav Parab, Mr. Ananthu Nair, Ms. Prachi Patil and Mr. Swapnil Patil received Best Paper Award for their paper “Iot Based Patient Health Monitoring System” under track number 12: Recent developments in Instrumentation, control and automation in On-line VNC TASU 2020 on 27/06/2020.

**Dr. Deepak Gawali**

HOD

Instrumentation Engineering

## Department of Information Technology



Academic year 2019-20 was altogether different compared to other academic years. At the start of 2020, the world was hit by Covid-19 pandemic.

The teaching-learning process came to a halt due to the lockdown. It was a time to adapt the new way of teaching-learning i.e. online teaching. As said “When the going gets tough, the tough gets going”, the staff of Department of Information Technology accepted the challenge and came out with flying colors in this difficult situation. Through course website, online lectures, video lectures, online quizzes/assignments, online coding platforms the needs of the students were catered. Though many of the activities were curtailed due to the lockdown, there are many activities and achievements of staff and students, which brought laurels to the Department and the Institute.

### Faculty & Staff:

#### Responsibilities Held:

- Dr. Ashish Vanmali held following responsibilities:
  - CDC Member (Teaching)
- Prof. Archana Ekbote held following responsibilities:
  - PR Team Head
  - ILOC Coordinator
- Dr. Madhavi Waghmare held following responsibilities:
  - Chairman, Anti Ragging Committee
  - Head, Digital Marketing Committee
- Prof. Pranali Sapre held following responsibilities:
  - Member, Anti Ragging Committee
- Prof. C. V. Sonarkar held following

responsibilities:

- Coordinator, FE Induction Program
- Prof. Sainath Patil held following responsibilities:
  - CDC Member (Teaching)
  - Coordinator of IIT Bombay Remote Center
- Prof. Vaishali Shirsath held following responsibilities:
  - SC/ST Committee Member
  - IPR Cell Member
- Prof. Anagha Patil held following responsibilities:
  - Library Committee Member
  - ICC Committee Member
- Prof. Yogesh Pingle held following responsibilities:
  - In-charge, Website Committee
  - In-charge, German Club
- Prof. Maryam Jawadwala held following responsibilities:
  - Minority Committee Member
- Prof. Swati Varma held following responsibilities:
  - In-charge, Magazine (Literati) Committee

#### • Paper published/presented/accepted in Journals and National/International Conferences:

- Dr. Ashish Vanmali's paper “Ring-ing artifacts in wavelet based image fusion: Analysis, measurement and remedies,” is published in journal Information Fusion, Vol. 56, April 2020 (Impact Factor: 10.716 as per 2018 Journal Citation Report, Clarivate Analytics).
- Prof. Archana Ekbote's paper “Genetic Syndrome Identification: An Image Processing Approach” is published in IETE Journal of Research.

- Prof. Yogesh Pingle's papers "Prediction of Coronavirus Covid-19 cases using Linear Regression and Support Vector Machine" is published in International Journal of Advanced Science and Technology, Vol 29, No. 5, 2020.

- Prof. Yogesh Pingle presented a paper in the conference INDIA-Com-2020 in March 2020.

- Dr. Ashish Vanmali, Prof. Archana Ekbote, Dr. Madhavi Waghmare, Prof. Vaishali Shirsath, Prof. Bharati Gondhalekar, Prof. Yogesh Pingle, Prof. Maryam Jawadwala and Prof. Swati Varma presented papers in VNC TASU 2020.

• **Resource Speaker:**

- Dr. Madhavi Waghmare conducted a workshop on "Robotics" in Dec. 2019

- Prof. Anagha Patil conducted Refresher course on "Technical interview preparation"

- Prof. Anagha Patil conducted sessions in Workshop on Virtual Lab for first year and second year students.

- Prof. Yogesh Pingle conducted session on "Raspberry Pi" in One Week FDP sponsored by Ministry of Electronics & Information Technology, Government of India on 14th June 2019, St. John COE.

- Prof. Yogesh Pingle conducted session on "Music and Culture" in FE Induction Program on 8 Aug 2019.

- Prof. Yogesh Pingle conducted session on "Arduino and Raspberry Pi Programming" in CSI-TSEC Event Tech-Next 2019 on 5 Oct 2019 at TSEC, Mumbai.

- Prof. Yogesh Pingle conducted session in Student Development Programme on "Java Programming" at L R Tiwari COE on 10 Oct 2019.

- Prof. Yogesh Pingle conducted session in FDP Sponsored by DTE organized by Electrical Department on "Role of Open Source softwares in Quality Improvement" at Government Polytechnic on 18 Dec 2019.

- Prof. Yogesh Pingle conducted session in FDP Programme on "Hands on Raspberry Pi" at RGIT, Andheri on 20 Dec 2019.

- Prof. Yogesh Pingle conducted session in FDP Programme on "IoT" at Terna college of engineering, Nerul on 1 & 4 Jan 2020.

- Prof. Yogesh Pingle conducted Webinar on "IoT for Music Therapy" for St. John COE on 24 May 2020.

- Prof. Yogesh Pingle conducted session in Online FDP on "Use of IoT for Industry 4.0" at Fr. CRCE, Department of Computer Engineering on 1 June 2020.

- Prof. Yogesh Pingle conducted Webinar on "IoT for Music Therapy" for Suman Ramesh Tulsiani Technical Campus, Pune on 2 June 2020.

- Prof. Yogesh Pingle conducted Webinar on "IoT for Stress Management" for Kohinoor Business School, Kurla on 22 June 2020.

• **Distinguished Reviewers:**

- Dr. Madhavi Waghmare served as a distinguished reviewer for Iranian Journal of Science and Technology.

- Prof. Yogesh Pingle worked as a Session Co-Chairperson and Reviewer for International Conference INDIACom 2020 at BVICAM, New Delhi.

**Placement Record:**

Company	No. of offers received	No. of students placed
Infosys	27	48*
Raw engineering	8	
LTI	17	
TCS	22	
Cognizant	5	
Media.Net	3	
Neebal	6	
Atos Syntel	2	
Capgemini	1	
Wipro	1	
IBM	1	
ADSIPL	1	
Amazon	1	
Byju's	1	
Craftpixel	1	
Zycus	1	
<b>TOTAL</b>	<b>98*</b>	

\* Till 6th July 2020

**Academic Results:****ACADEMIC YEAR 2018- 2019****B.E.****DEPARTMENTAL RESULT: 98.66%**

Rank	Name	Percentile/Percentage
1	Zha Rachana	8.97 CGPI
2	Yande Mahima	8.95 CGPI
3	Patil Sweety	8.88 CGPI
4	Karambe Prathamesh	8.84 CGPI
5	Memon Khushboo	8.74 CGPI

**T.E.****DEPARTMENTAL RESULT: 94.44%**

Rank	Name	Percentile/Percentage
1	Kotadia Raj	9.53 CGPI
2	Singh Sagar Sanchit	9.38 CGPI
3	Gosalia Shreyans	9.23 CGPI
4	Chandrarana Dhairyra	9.15 CGPI
5	Suvarna Kritika	9.02 CGPI

**S.E.****DEPARTMENTAL RESULT: 87.67%**

Rank	Name	Percentile/Percentage
1	Bangar Saloni	9.44 CGPI
2	Kritesh Sutar	9.19 CGPI
3	Ritika Shenoy	9.13 CGPI
4	Vivek Singh	8.79 CGPI
5	Maji Devdoot	8.77 CGPI

**Student's Achievements:****ZEAL 2020:**

- Antakshari: Winner (Mayur Koul, Yash Meghani)
- Duet Dance: Winner (Yash Meghani)
- Neon cricket: Winner (Shashank Kamble, Siddesh Jangam)
- Rangoli: Runner-up (Ashwini Walawalkar, Akansha Mohite)
- Facts & Furious: Runner-up (Ashwini Walawalkar, Dhruv Kator, Abhineet Menon)
- Group Dance: Runner-up

**AVAHAN (ZEAL SPORTS) 2020:**

- Dept. Girls Cricket: Winner
- Class Girls Cricket: Winner (SE IT)
- Dept. Basketball - Boys: Winner
- Dept. Basketball - Girls: Winner
- Class Basketball - Boys: Winner (TE IT)
- Tug-of-war – Boys: Winner
- Dept. Volleyball – Girls: Winner
- Dept. Volleyball – Boys: Winner
- Arm wrestling – Girls: Winner (Hitakshi Patel – BE IT)
- Chess Singles – Girls: Winner (Hemali Save – TE IT)
- Dept. Box Cricket: Runner-up
- Badminton – Girls: Runner-up (Komal Acharekar, Pranita Redkar, Shruti Menon – BE IT)
- Class Basketball - Boys: Runner-up (BE IT)

- Dept. Tug-of-war – Boys: Runner-up
- 100m Running - Girls: 2nd Place (Laxa Devdan – BE IT)
- 200m Running - Girls: 2nd Place (Laxa Devdan – BE IT)
- Shot-put – Girls: 3rd Place (Hitakshi Patel – BE IT)
- Class Throwball: Runner-up (TE IT)
- Carrom Doubles – Girls: Runner-up (Shraddha Mahala, Nivedita Bhoire – BE IT)

- IT Department successfully organized Online Alumni Talk on “Career Options for CS/IT Students” on 19-05-2020 presented by Mr. Akash Shah, Fractal Analytics, UK.

**Dr. Ashish V. Vanmali**  
HOD, IT

**Student’s Performance in competitive exams:**

Name of Student	Exam	Score
Dhairya Chandarana	GRE	303/340
Dhairya Chandarana	TOEFL	84/120
Raj Kotadia	GRE	300/340
Milind Purohit	GRE	280/340
Krima Shah	IELTS	6.5/9

**Co-curricular Activities:**

- IT Department successfully organized “Elixir” on 19-09-2019.
- IT Department successfully organized “Hackathon” on 27-09-2019 and 28-09-2019.
- IT Department successfully organized workshop on “Android App Development” under CSI Student Chapter on 05-10-2019
- IT Department successfully organized workshop on “Devops” under CSI Student Chapter on 07-03-2020.
- IT Department successfully organized workshop on “Machine Learning” under CSI Student Chapter on 12-03-2020.
- IT Department successfully organized Online Alumni Talk on “Utilizing Lockdown Period for Placement Preparation” on 18-05-2020 presented by Mr. Chetan Manjeshwar, Goggle, USA.



## 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 2019-20. The various activities and achievements of Mechanical Engineering Department are as summarized below:

### Faculty Contribution:

1. Dr. Uday Aswalekar, Session chair at National Conference - 2020 at VIVA Institute of Technology.
2. Dr. Ashish Chaudhari, Guest speaker for online STTP on Renewable Energy and Utilization at SIEM, Nashik.
3. Dr. Ashish Chaudhari, Guest speaker for Energy Audit and Management A Step Towards Sustainability, AICTE - ISTE approved one - week STTP at VCET from 1st July to 6th July 2019.
4. Mr. S. R. Mane qualified as Certified Energy Manager by Bureau of Energy Efficiency (BEE), New Delhi.
5. Mr. S. R. Mane, conducted guest lecture on "Energy security for a sustainable lifestyle (Rural area scenario), at NSS Camp on 1st March 2020.
6. Mr. S. R. Mane, conducted online guest lecture on "Solar energy for sustainability" at Shree L. R. Tiwari COE, Mira Road on 20th May 2020.
7. Mr. S. R. Mane, conducted online guest lecture on "Energy Auditing" at NMIMS Mumbai on 25th June 2020.
8. Mr. Rishabh Melwanki, resource person for webinar topic "Applications of Refrigeration and Air-conditioning" which was part of 5 Days Webinar series on Heating, Ventilation and Air

Conditioning & refrigeration – Application under ISHRAE-VCET Students Chapter from 20-24 May 2020.

### Projects Sponsorship:

1. Dr. U. V. Aswalekar, Mr. Rishabh Melwanki got University of Mumbai (UGC Minor Grant) of rupees 26000/- for "Design and experimentation on semi open type refrigerated display cabinet" for 2019-20.
2. Mr. Vinay Patel, Dr. A. J. Chaudhari got University of Mumbai (UGC Minor Grant) of rupees 32000/- for "Thermal Performance of an evacuated tube heat pipe improved in solar water heating system in all season" for 2019-20.

### Industrial Consultancy:

1. Dr. Ashish Chaudhari, Mr. V. D. Patel did consultancy for M/s. Achievo Engineering Components Pvt. Ltd., Vasai for rubber couplings testing for compression load.
2. Dr. Ashish Chaudhari, Mr. V. D. Patel did consultancy for M/s. Synergy Water Park Rides Pvt. Ltd., Vasai for burnt FRP report.
3. Dr. Ashish Chaudhari, Mr. V. D. Patel did consultancy for M/s. Synergy Water Park Rides Pvt. Ltd., Vasai for FRP material testing for tension test.
4. M. Dutta did consultancy for M/s. Abhinandan Industries Ltd., Vasai for Quality Management system ISO 9000.

### STTP, FDP Organized:

1. Dr. U. V. Aswalekar, Mr. S. R. Mane, Mr. Vishwas Palve conducted one week AICTE ISTE approved STTP on Energy Audit and Management from 1st July to 6th July 2019.
2. Mr. S. R. Mane organized Student Solar Ambassador Workshop 2019 on 2nd October 2019 in which 175

participant were trained to assemble and use solar powered study lamp.

3. Mr. V. D. Patel, Mr. Rishabh Melwanki organized 5 Days Webinar series on Heating, Ventilation and Air Conditioning & refrigeration –Application under ISHRAE-VCET Students Chapter from 20-24 May 2020.

4. Mr. S. R. Lohar conducted 3 days workshop on GD&T Stack Up Analysis for TE and BE Students from 28th Feb to 1st March 2020.

5. Mr. V. M. Palve organized one week student development program on “AUTOCAD – Tool for Engineers” at VCET from 11th May to 16th May 2020.

#### **Paper Publications/Conference attended:**

1. Dr. Ashish Chaudhari, “Design and development of inline two wheeler self-balancing electric bike” in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

2. Dr. Ashish Chaudhari, “Optimization of Variable Compression Ratio Accompanied with Variable Injector Location in Di Diesel Engine Using Renewable Fuels” in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

3. Dr. Ashish Chaudhari, “Performance Evaluation of Diesel Engine using Novel Variable Compression Ratio Mechanism” in Advanced Science, Engineering and Medicine International Journal , American Scientific Publishers.

4. Dr. Ashish Chaudhari, “Energy and Exergy Analysis of Raw Biogas Fueled VCR accompanied with VSPL spark ignition engine” in International Energy Exergy and Environment Symposium 11 conference, SRM University, 14th July-18th July2019. (Best Paper Award)

5. Dr. Ashish Chaudhari, “Thermal Performance Analysis of Shell and Tube Thermal Energy Storage Unit Using Evacuated Tubes Solar Collector” in International Energy Exergy and Environment Symposium 11 conference, SRM University, 14th July-18th July2019.

6. Mr. V. D. Patel, “To improve the Thermal Performance of Heat Pipe in Evacuated Tube Solar Collector” in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

7. Mr. V. M. Palve, Mr. S. R. Mane, Mr. P. S. Sarode, “Numerical Investigation of variable tube diameter helical coil heat exchanger” in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

8. Ms. Priti Vairagi, “Review of Fatigue crack growth and microstructure of rail” in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

9. Mr. T. D. Raut, “Design And Development of Double Head Chamfer Machine” in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

#### **Seminar and Workshops and FDP's and STTP attended:**

1. Dr. Ashish Chaudhari, Mr. V. D. Patel completed five days FDP on Waste Management under TEQIP III FDP at SVNIT Surat from 22-26 June 2020.

2. Dr. Ashish Chaudhari, Mr. V. D. Patel, Mr. Mukund Kavekar completed two week AICTE - ISTE approved FDP, Automatus 2020, at VCET.

3. Dr. Ashish Chaudhari completed six

days FDP on Computational and Numerical techniques in engineering, DBATU at A.Mane COE, Kolhapur under TEQIP III.

4. Dr. Ashish Chaudhari, Mr. Dipak J. Choudhari, Mr. V. D. Patel, Mr. Vishwas Palve, Ms. Priti Vairagi, Mr. Mukund Kavekar, Mr. Rishabh Melwanki, Ms. Apurva Pendbhaje completed six days AICTE - ISTE approved STTP on Energy Audit and Management A Step Towards Sustainability at VCET from 1st July 2019 to 6th July 2019.

5. Dr. Ashish Chaudhari, Mr. V. D. Patel, Mr. S. R. Mane, Mr. V. Palve, Mr. Tushar Raut, Mr. P. S. Sarode completed IITBombayX: SSA101x Hands-on training on Solar Study Lamp Assembly from 1st May 2019 to 31st Dec 2019.

6. Mr. V. D. Patel, Mr. S. R. Mane, Ms. Apurva Pendbhaje, Mr. P. S. Sarode completed IITBombayX: LaTeX101x: LaTeX for students, Engineers and scientists from 24th Sept 2019 to 2nd Dec 2019.

7. Mr. V. D. Patel completed 6 days FDP on Advances in Smart Manufacturing Technologies (ASMT) under QIP (TEQIP III) at VJTI from 30th Dec 2019 to 4th Jan 2020.

8. Mr. S. R. Mane attended "One day workshop on R" under the scheme of the 'Pandit Madan Mohan Malaviya National Mission on Teachers and teaching' (PM-MMNMTT), MHRD, Government of India. On Friday, 9th Nov, 2019, at remote center, VCET, Vasai (W).

9. Mr. S. R. Mane attended "One day workshop on Arduino" under the scheme of the 'Pandit Madan Mohan Malaviya National Mission on Teachers and teaching' (PM-MMNMTT), MHRD, Government of India. On Friday, 8th Feb, 2020, at remote center, VCET, Vasai (W).

10. Mr. S. R. Mane attended two days

online orientation program on "Energy Performance Assessment for Equipment & Utility Systems" at NPC Hyderabad on 20-21 June 2020.

11. Mr. Dipak J. Choudhari, Mr. V. D. Patel, Mr. S. R. Mane, Mr. V. Palve, Mr. Kamlesh Bachkar, Mr. Mukund Kavekar attended three weeks course on Whatsapp Outcome based Education FDP conducted by D Y Patil COE, Pune from 24th March to 14th April 2020.

12. Mr. S. R. Lohar completed one week STTP on Additive Manufacturing (Theory and Application) under TEQIP III at SVNIT, Surat.

13. Mr. Rishabh Melwanki participated in Online FDP on "Renewable Energy Sources: A Way Ahead" organized by Cummins COE, ASM, ISHRAE Nagpur chapter during 15th May 2020 to 21st May 2020.

14. Mr. Kamlesh Bachkar has completed TTT Program for COE on Basic Drives and S7 1200 (hands on training) under SIEMENS Training for Industry.

#### **NPTEL/edX/Coursera Courses:**

1. Mr. Swapnil Mane, Mr. V. M. Palve, Mr. Kamlesh Bachkar, Mr. Mukund Kavekar, Mr. Rishabh Melwanki, Ms. Apurva Pendbhaje, Mr. P. S. Sarode completed NPTEL online certification 12 week course on "NBA Accreditation & Teaching learning in Engineering" Jan-April 2020.

2. Mr. Vinay Patel, Mr. Raahul Krishna, Ms. Apurva Pendbhaje completed NPTEL online certification 4 week course on "Selection of Nanomaterials for Energy Harvesting and Storage Applications" dated July-Oct 2019.

3. Mr. S.R. Lohar, Mr. Tushar Raut completed NPTEL online certification 8 week course on "Principles of Metal Forming Technology" dated Jul-Sept 2019.

4. Mr. S. R. Lohar completed NPTEL online certification 8 week course on “Introduction to Research” dated Aug-Oct 2019.

5. Dr. Uday Aswalekar, Mr. V. M. Palve, Ms. Apurva Pendbhaje completed NPTEL online certification 8 week course on “Accreditation and Outcome Based Learning” dated Aug-Oct 2019.

6. Mr. Kamlesh Bachkar completed edX 4 week course on “Electric Cars: Technology” by DelftX University in Dec 2019.

7. Mr. Kamlesh Bachkar completed Coursera 4 week course on “Structures Query Language (SQL) for Data Science” in March 2020.

8. Mr. P. S. Sarode completed NPTEL online certification 8 week course on “Introduction to Mechanical Vibration” dated Feb-April 2020.

#### **Expert Lectures organized:**

1. Application Programming Interface by Mr. Jay Bhatt, Prolific 3DTech, Vasai on 26th Aug 2019.

2. ISHRAE student chapter organized one day seminar on Fundamentals of HVAC & Centralised Chilled Water Air Conditioning system. Delivered by Mr. Swapnil Juvekar, Area Manager-Infrastructure Solutions, Voltas Ltd on 27th Feb 2020.

3. Applications of CAD software by Mr. Ibrahim Shah, Freelancer, Vasai on 27th Jan 2020.

#### **Industrial Visits:**

1. Industrial visit to Utensil Manufacturing Company to observe and study various Press Tool and Production Processes in Industry, M/s. Vardaman Industries, Vasai (E) dated 17/10/2019 for TE A and 22/10/2019 for TE B.

2. Industrial visit to M/s Angel Auto

World, Vasai (W) for demonstration of balancing of 4 wheelers for TE A dated 22/10/2020.

3. Industrial visit to Mangalam Pvt. Ltd. Vasai (E) to observe various manufacturing processes for SE A and SE B dated 23/10/2019.

4. Industrial visit to M/s Sunil Enterprise, Vasai (E) to observe various manufacturing processes for SE A and SE B dated 23/10/2019.

5. Industrial visit to M/s Angel Auto World, Vasai(W) for Troubleshooting and maintenance of Automotive vehicle for BE A and BE B dated 23/10/2020.

6. Industrial Visit to ADANI Thermal Power Plant, Dahanu to understand working of thermal power plant for BE A and BE B dated 03/03/2020.

7. Industrial visit to M/s Alfa Pumps and Systems Pvt. Ltd, Bhiwandi for exposure to product design and manufacturing for BE A dated 13/03/2020.

#### **Student's Achievements:**

##### **BE A result for the academic year 2019-2020 and toppers are:**

1. Sawant Kiran	9.25
2. Mohite Manish & Arwari Rohan	9.08
3. Sawant Shreya	8.59

##### **BE B result for the academic year 2019-2020 and toppers are:**

1. Surve Tanuj	8.67
2. Shaikh Zubair	8.37
3. Wapilkar Sarvesh	7.98

##### **TE A result for the academic year 2019-2020 and toppers are:**

1. Phadale Omkar	10
2. Mishra Raviranjana	9.88
3. Deshpande Bhagyesh	9.84

**TE B result for the academic year 2019-2020 and toppers are:**

1. Dhamecha Devesh & Naik Omkar 9.76
2. Ringe Arun 9.68
3. Siddiqui Raghiv 9.36

**SE result for the academic year 2019-2020 and toppers are:**

1. Patil Rahul 10
2. Karmorkar Snehashish & Chauhan Devang 9.85
3. Shinde Kunal 9.54

**FE result for the academic year 2019-2020 and toppers are:**

1. Kushwaha Manisha 9.92
2. Mendes Ria 9.74
3. Vartak Sarvesh 9.61

**Campus Placements:**

Company Name	Total No of Students Placed
Infosys	22
LTI	3
TCS	1
Khodiyar group	3
Byjus	1
Jayashree Polymers	8
SpareFusion	4
USPL	4
IOS Commerce	3

Placements are still undergoing for the remaining students of BE Mechanical. Seven students have gone for higher studies. Internship was done by 141 students. Out of 141, 44 are industrial internship and 97 are institute internship.

**Aavishkar Projects (University Level Competition)**

1. Hemade Tanmay, Karadkar Nikhil, Mohite Manish, Chavan Rohit participated in zonal level Aavishkar for "Design and Development of Mango Grafting Machine" under the guidance of Prof. Priti Vairagi.

2. Borse Nikhil, Nijap Siddhesh, Parab Yogesh, Sondagar Varsha participated in zonal level Aavishkar for "Producer Gas Generation By Agricultural Waste" under the guidance of Dr. H. V. Vankudre.

3. Dhadve Nancy, Kesarkar Vaishnavi, Rao Binny, Raur Sanskruti participated in zonal level Aavishkar for "Design, development and analysis of Die sensitized solar cell panel manufacturing machine" under the guidance of Dr. Ashish Chaudhari.

4. Sawant Kiran, Raut Siddhesh, Sawant Hrushikesh, Yadav Mahesh participated in zonal level Aavishkar for "Design and Development of Harmony Wind Turbine with Furling Mechanism." under the guidance of Prof. V. D. Patel.

**Anveshan Project**

1. Pawar Sumit, Pawar Prathamesh, Prabhu Praseeda, Suthar Harshal participated in national level Anveshan for "Design and manufacturing of a lower limb exoskeleton" under the guidance of Prof. M. Dutta.

**Students Other Achievements:**

1. Team VCET Solection 3.0 secured 1st position in NSVC 2019-20, VNIT Nagpur organized by Dynamist Motorsports PVT. LTD dated 28th February - 3rd March 2020.

2. Team VCET Pratibimb 2.2 secured 3rd position in NSVC 2019-20, VNIT Nagpur organized by Dynamist Motorsports PVT. LTD dated 28th February - 3rd March 2020.

3. Team Centurion secured 11th rank at Quad Bike Design Challenge, Season 5, held at Hyderabad, Telangana dated 7th Feb -11th Feb 2020.

4. Team E-Mechto secured 12th in Asian E-Bike Challenge, Season 3 at Vishakhapatnam, Andhra Pradesh dated 23rd Sept-27th Sept 2019.

5. Team Airnova participated in Aerodominator 7.0 (online competition) and scored rank 16.

6. Siddhant Kule of TE A completed NPTEL online certification 12 week course on "Computational Fluid Dynamics using Finite Volume Method" dated Jan-April 2020.

7. Mayura Vartak of TE A completed NPTEL online certification 12 week course on "Computational Fluid Dynamics using Finite Volume Method" dated Jan-April 2020.

8. Gaurav Pawar completed NPTEL online certification 8 week course on "Basics of Finite Element Analysis-I".

9. Rahul Patil completed NPTEL online certification 12 week course on "Introduction to Fluid Mechanics".

10. Riya Patil of FE A completed Coursera course on "A Brief History of Human Space Flight" dated 19th June 2020.

11. Shreyas Pai of FE A participated in 2 days workshop on "Ethical Hacking" at IIT, Mumbai on 19th & 20th Oct 2019.

12. Sumedh Mulimani, Yatnik Sawant of FE A attended Student Solar Ambassadors Workshop to learn make his own solar study lamp organized on 2nd Oct 2019.

13. Isha Pise, Mahesh Pachpande, Snehashish Karmarkar, Riya Patil, Rakeshkumar Thakur, Rahul Sonkusare, Hrishikesh Waghmare, Shubham Irakar, Debashish Das, Pratik Goyekar completed a short course on "Learn to Design your own Solar Home System" conducted by Energy Swaraj Foundation dated 18th June 2020.

14. Abhishek Patil of TE A completed Diploma in Design thinking with 89% conducted by Alison on 31st May 2020.

15. Abhishek Patil of TE A completed Mechanical Design at the level of ASSOCIATE conducted by Dassault Systems SolidWorks on 28th June 2020.

16. Snehal Jadhav, Swapnali Panchal, Prajakta Kulkarni, Trupti Firake, "Design of an innovative refrigerated display cabinet" in National conference on Technical advancement for social upliftment at VCET Vasai, India on 27th June 2020.

17. Shridhar Kashalkar, Avishkar Naik, Siddhant Naik, Avinash Mohan-an completed Simulink Onramp and MATLAB Onramp organized by Mathworks Training Services.

18. Sarvesh Wapilkar completed Fan & Blower, Compressor, Basic Metallurgy, Heat treatment of steel, Bearings, Measuring instrument event conducted by TATA STEEL Capability Development.

19. Nachiket Vaze completed E-learning on PLCs event conducted by TATA STEEL Capability Development.

20. Total of 76 Coursera, 7 Udey and many more courses were taken up by Mechanical Engineering students.

21. Students participated in online quizzes on National Level REFQUIZ Competition, Insolvency and Bankruptcy Code, UMANG App Quiz,

General Mechanical Engineering, Emerging Trends in Mechanical Engineering, Excel Basics Quiz, Cyber Security, How much you know vehicles around you ?, General Intelligence and Logical Reasoning etc.

**VNC TASU-2020:**

This year Vidyavardhini's "National Conference Technical Advancements For Social Upliftment" was organized on 27th June 2020 in which 31 papers were published. Session chair were

1. Dr. V. B. Tungikar, Prof., Production Engg. Dept., SGGS IOE, Nanded.
2. Dr. R. S. Maurya, Professor, SPCE, Andheri.
3. Dr. Prasad Baviskar, Professor & Head, Sandip Institute of Engineering & Management, Nashik.
4. Dr. Gajanan Shelke, Professor & Dean Research, Dept. of Mechanical Engineering, Nashik.

**Dr. U.V. Aswalekar,**  
HOD, (Mech. Engg.)

## Literati -The Literary Club

The Committee has been outstanding for the literary and creative work it does. The committee assures to assemble each and every piece of mind-blowing art available. It has a zest of conducting and organising events right from its inception with passion. With the successful commencement of all the previous year's event, the magazine committee set a new challenge, the most anticipated Inter-departmental event: FACEOFF marked its 8th year this time in the form of FACEOFF 8.0 to give an opportunity to students to put forth their perceptions and ideas on the topic. Eight teams across the departments compete to get their hands on the prestigious 'Padma Shri Bhausaheb Vartak Memorial Trophy'. The event was enlightened by the presence of experienced judges who were fair in their decisions and enthusiastic to listen to the students speak their hearts out. We celebrated Marathi Diwas with great enthusiasm and this could only come together by the help of the staff members

The best thing that happened to the committee was that the name of the Committee was changed from "Magazine Committee" to "LITERATI - The Literary Club". Also the brilliant minds of committee members initiated a new and phenomenal Lit Fest. It encompassed several events like story completion, Extempore, etc. EXTEMPORE was an event in which participants were given a topic before 15 minutes and they had to prepare for it within that time and then deliver that speech. EXTEMPORE was appreciated by everyone and it became

the second most adorable event after the FACEOFF in its very first attempt itself. Lit Fest '20 was marvellous and a grand success.

The committee organised the Annual Magazine Photoshoot having their memorable moment with happy faces, smiles and realistic and delightful expressions. Lastly the committee expresses its thanks to everyone for their involvement and participation which beautified this college, such that it could smoothly move into the annual college magazine VISTA. The committee bids adieu. The committee will excel in the most beautiful ways in the future and I wish them luck and hope that the committee will lead to another level of success.

**Aishwarya Gawade**  
Literati- The Literary Club  
Chairperson



## Students' Council

Students' Council, one of the biggest committees of the college takes pride to share the memories it made this year. The year started with the freshness of the first-year students engaging in the FE Orientation. An informal orientation was organized by Students' Council where the freshers were imparted with few tips and tricks to tackle both academics as well as extra-curricular. They were also made familiar with the nearby places of visit and acquainted with the basic rules and regulations of the college. The freshers were then welcomed in the college with a grand Fresher's Party held on 30th August, 2019. The theme decided was Angels and Demons. Students were shortlisted based on their theme related attire to clinch the title of Mr. and Miss Fresher. Fun games and drills were held which brought a new zest to the party. The combo of glimmering lights and DJ was a perfect end to the evening.

Moving forward, Council celebrated Teacher's Day as a tradition of VCET on 13th September, 2019. The teachers were welcomed with a card and as an addition, the teaching and non-teaching staff were also given a sapling as a token of love and appreciation along with countless number of wishes. The celebration was scheduled in the evening and all the teaching and non-teaching staff were cordially invited for the same. The teachers enjoyed the event and engaged into quirky and captivating fun games planned for them.

The day ended in high spirits and appreciation from teachers for Councils' efforts. The much-awaited Indian festival Navratri, called for an evening of Garba Night which was held on 4th October, 2019. It was celebrated by the staff and students of VCET with great fever and enthusiasm and attended by all the students, faculty and staff members in traditional grooming. The event began with worshipping of Goddess Durga by our Principal, after which the students and teachers danced to the upbeat and traditional Garba tunes played by the DJ. There were prizes for the best Garba moves and the most colorful costumes. This year the entire college dressed in yellow color on one of the days of Navratri to show unity, and the class with maximum students wearing yellow colored attire was awarded during the Garba Night. The positivity and energy exuberating out of the colorful costumes combined with the enthusiasm of dancing to the dandiya folk songs made the entire day extremely successful and fruitful.

The Students' Council then began preparing for the most anticipated cultural fest, that is ZEAL 2020. When it comes to cultural uplifting, Zeal is certainly one of the highlights of our college. This year, Zeal was held on the 14th, 15th, and 16th of February with the theme: Echoes of Silence - Unveiling Mysteries and magic.

**Dr. SUNAYANA JADHAV**  
Student's Council Incharge

## All About Zeal

Talking about cultural uplifting, Zeal is certainly one of the highlights of our college. Organized by the Students' Council, this year Zeal was held on the 14th, 15th, and 16th of February with the theme: Echoes of Silence - Mysteries and magic. Zeal boasts an arsenal of 30+ events held each year with hundreds of participants. With all the euphoria and excitement, Zeal sure packs a punch in the even semester of the calendar year.

With so many events, Zeal provides a platform for students all over the city to indulge in various events and fun activities. This year, Zeal 2020 introduced 3 new events, namely - Masterstroke, Photography, Staff event which was conducted for the first time this Zeal and included events like Master-chef, Rangoli, Love letter writing, Mock the voice and True pals. With ample event categories ranging from Performing arts and Gaming to Literary and Fine arts, Zeal 2020 had it all to grab everyone's attention. Furthermore, we had the celebration of expression in the form of certain significant days. During Pre-Zeal held on 12th and 13th of February, that is 'Traditional day' and 'Formal day' respectively, we had 'Street Funk day' as the third day which was welcomed with great participation.

The main kicked off with a grand Inauguration ceremony, graced by the presence of our chief guest Mr. Ajinkya Deo and our Hon. Mayor Pravin Shetty followed by a marvellous Lezim performance. Orphanage girls were invited to our campus, and they enjoyed their time at VCET. Zeal 2020 was all about blockbuster events like Natyamay, Beatboxing, Solo/Duet Dance, Street play, Group Dance, Octaves and War of DJs among others. But this year's novelty was Sunburn Campus at VCET headlined by DJ Zenith and co-headlined by DJ Joshi. Octaves 2020 collaborated with Rock factor India and highlighted the Indie Rock music scene with bands like Vikalp Sharma Collective, Tapas and The Light Years Explode.

Zeal 2020 - Echoes of Silence was the perfect blend of creativity, enthusiasm and euphoria that brought alive the magnificent campus of VCET. From having sleepless nights to staying back in college after lectures to help in creative artwork, Zeal 2020 was surely a ride that will be throughout our lives. We thank our Hon. Principal, Dr. Harish Vankudre, our Dean, Dr. Vikas Gupta and all the teaching and non-teaching staff for their immense support and guidance in efficient and smooth running of all events. Thank you!

**Students' Council**

## Sports Committee

Sports committee is not just a 'student's body' or an 'organisation'. It carries a prodigious sense of responsibility and unfettered commitment to serve and elevate thousands of ingenious and outdoorsy students. It feels immense pleasure and matter of pride for me as a Sports Secretary to present the wondrous journey of AVAHAN. After the glorious triumph of AVAHAN 2019, the levels were indeed set high.

"To be a Winner, compete with the Best,

But to be a Champion, compete with Yourself!"

The Sports Committee commenced the preparation of AVAHAN 2020 with a tagline "A call to the champions". The first and foremost task was the formation of the committee for which the recruitment of students from all branches and grades was done. AVAHAN 2020 dated from 2nd January to 12th January 2020, 11 days of Inter and Intra college sports fest aimed to go beyond the normal conventions of a youth sports tournament.

Avahan 2020 began with a splendid series of events. The hosts introduced our chief guests for the morning that were, Mr. Vikrant Keni, Captain of Divyang Cricket team, Mr Archis Patil, India's No. 1 Freestyler and our respected Management. They spoke on the importance of sports and how AVAHAN plays an active part in every student's life.

With further moving to the sense of responsibility that each student must play fair and their best for their respective departments. And with this thought the respective HODs handed over the departmental flags to each flag bearer. The event took a 360 turn with the setoff of the performance by an award winning band, Rhythm Funk, the band captivated the crowd quickly with their fusion of Indian instruments and western tunes. Followed by a performance by India's number 1 freestyler, Mr. Archis patil, whose mastery caught everyone's eye. After these performances, a special cricket match was organised for the visually impaired students from the Shree Trust, Virar. The smile on their faces made AVAHAN a lot more meaningful and memorable to us. To end the ceremony, in our traditional approach, a match of box cricket was played by our respected management members and the sports saga was declared open.

It was a great honour for us that over 40 colleges accepted our invitation and all the teams showed a plethora of competitiveness to win the title.

This year AVAHAN witnessed 19 power packed events including the new events which were Footvolley, Arm-wrestling and Shotput introduced for the students.

AVAHAN 2020 not only aimed to hone the skills of our students but also attempted to bring out the verve within our sporty teachers.

This year AVAHAN witnessed 19 power packed events including the new events which were Footvolley, Arm - wrestling and Shotput introduced for the students.

AVAHAN 2020 not only aimed to hone the skills of our students but also attempted to bring out the verve within our sporty teachers. We planned out for Cricket and Badminton events for the teaching and non-teaching staff. Lastly we applauded and appreciated all the winners and the participants in our 'Prize Distribution Ceremony'.

Achieving this triumphant wouldn't have been possible without the constant support of the Management, honourable

Principal Dr.Harish Vankudre Sir and Respected Dean Dr.Vikas Gupta Sir. I would extend my heartfelt gratitude to our Sports Incharge Prof. Amrita Ruperee, Sports Co-ordinator Prof. Mamta Patil and all the staff members.

Lastly I would like to thank all the members of the Sports Committee for their dedication, determination and hardwork to make AVAHAN 2020 a grand success.

**Yash Meghani**  
Sports Secretary

## Women Empowerment Cell

**MANTRA:** “Empowered Women Empower Women.”

The Women Empowerment Cell was formed in V.C.E.T. to create a gender friendly environment and address the issues faced by the women staff and students. The WEC committee has had a blooming year as there were a good deal of events taken place.

It has now become a ritual to organise the annual “Makarsankranti” celebration for the women staff of the college in order to keep the Indian tradition alive.

The very first exuberant event of the year was a workshop on “Self-Defence” which was conducted on 23rd August, 2019 in the 3rd floor seminar hall. The guest trainer was Mr. B. K. Pawar (Police Officer, Mumbai Police) and Mr. Govind Rao Pawar.

The speaker addressed the importance of responsibilities, time management, financial management, and health of an individual. Later, the practical workshop was conducted for 2 hours where various techniques of self-defence were taught and the students were also trained in other exercises required to develop their physical and mental agility. More than 60 girls participated with full vigour and took utmost benefit of this training.

There was yet another value-based seminar on “Women’s legal rights” conducted on 26th September, 2019. The guest speaker for the seminar was Ms. Janaki Mishra (Asst. Prof. SNTD Law School).The guest speaker started off in an enthralling manner by sharing her personal stories which led her to pursue law as her profession.The speaker highlighted on 11 most important

rights an Indian woman holds in India on the basis of gender equality. A few are mentioned below:

- Equal pay for work of equal value.
- Right to dignity and decency.
- Right against domestic violence.

She focused on the “Constitutional Rights to Women”, “Legal Rights to Women” and “International empowerment of Women”. Few female pioneers of the nation namely Mother Teresa, Kalpana Chawla, Sarojini Naidu were put light upon. The speaker concluded the seminar with a captivating line, “Each time a woman stands for herself, she stands for all women”. The “Women Empowerment Cell” of VCET paid a 1-day visit to the NSS Residential Camp at Kelthan village, Vajreshwari on 28th Feb, 2020. The WEC launched an AWARENESS CAMPAIGN under the guidance of our faculty members which provided a wide awareness and community education about NUTRITION, HEALTH and HYGIENE, CANCER, SELF-DEFENCE, GENDER EQUALITY, etc. There was a sincere attempt to make the session interesting and interactive for the students by making use of PPT slides. The focus was to give solutions to the additional challenges because of the limited knowledge

of many rare diseases and habits. The importance of nutrition and a well-balanced diet in one's life to increase the immunity system which thereby results in better cognitive development was highlighted.

The students were educated about the prevention, early detection and treatment of diseases like Breast Cancer which is primarily observed in women. Menstrual hygiene management, PCOD and the implementation of modern techniques were emphasized upon.

The students were practically taught to tangibly defend themselves against physical attacks and harassments, and to develop more confidence in themselves to freely explore the world. Lastly, the importance of gender equality was put light upon. Handmade posters were used to reach out to the students in a more impactful way. Rights and slogans on equal rights were shared with them.

The profound efforts of the WEC committee finally bore the sweet fruits of success and set another benchmark to work towards.

-Mrs Neha Gharat,  
WEC Incharge

## SOLECTION

“Execution of plan is more important than just planning along with vision and teamwork.”

Our team was established on 19th September 2017 with just 18 members in it backed by Prof. Swapnil Mane our Faculty Advisor and now Prof. Dipak Choudhari who supported our vision. We have built five vehicles in last 30 months.

After securing AIR-3 at ELECTRIC SOLAR VEHICLE CHALLENGE'19, an Asian level where more

than 70 teams participated, we were ready for our 3.0 season. Year 2019-20 while planning to participate in ESVC'2020 and NSVC'2020 we introduced a new subsystem "AUTONOMOUS" which deals with driverless vehicle.

Our after-movie of 2018-19 was uploaded on YouTube in June'19 after our event and in that we gave a hint about Driverless car in the post credit scene and 8-9 months later we made the WORLD'S FIRST DRIVERLESS

## SOLAR ELECTRIC CAR.

The team attended the NSVC'2020 which was held at VNIT, Nagpur. We with a clear vision, hard work, plan and its commendable execution, we built two-vehicles simultaneously and did not just win (AIR 1) the event but our second vehicle secured 3rd rank All over India. We came home with two-two big title and 6 trophies from NATIONAL SOLAR VEHICLE CHALLENGE. Teams work day and night to win these kind of National level events but our team did something extraordinary by securing the 1st as well as 3rd position by its two vehicles in the same event.

In the end, as quoted by our captain, " It's not just a team...it's an emotion for me!" which is not just true for him but for all of us.

THINK TOGETHER  
WORK TOGETHER  
BUILD TOGETHER  
WIN IT TOGETHER...

Sanskriti Talgaonkar  
(Solection Team Member)

## Hackathon

The department of Information Technology of Vidyavardhini's College of Engineering has been a proud host of the esteemed coding battle HACKATHON for the 3rd consecutive year. "HACKATHON" is a prestigious technical event which involves 30 hours of incessant coding. This year the event demanded the participants to create a software application based on real life problem statements. Participants could choose to impact upon any of the domains such as education, logistics, health management etc. It is one of the few chances for the participants to gain substantial experience, analyse and evaluate outcomes and uncover personal aptitude. Hackathon 2019 was conducted on the 27th and 28th of September, 2019. To mark the commencement of the event, there was an inauguration through live video conference.

The event witnessed an overwhelming response as this year it was back with even better prospectus with 40 teams summing up to 140 participants.

There were participants from 20 different colleges. The cash prize this year was worth ₹50,000. There were consolation prizes as well by our generous sponsors. The event commemorated right after the inauguration at 8.00am sharp on the 27th September and continued for a stretch of 30 hours. There were 2 jury rounds on which the progress of the teams was tracked. The team members also got an opportunity to interact with the jury and get their doubts cleared. After acquitting themselves with the insights of all the projects, the best 10 teams were shortlisted for the final pitching round based on their final scores. The institute had the privilege of hosting some acclaimed personas like Mr. Gajanan Palsule, Mr. Sanket Raut, Mr. Nilesh Jain, Mr. Amod Nerulkar and Mr. Bhavik Shah.

The shortlisted teams had to go through a ten minutes presentation and a three minutes question and answer session wherein the teams were bombarded with insightful questions,

constructive criticism and all possible suggestions by the judges in the final pitching elaborating their project ideas. Finally we had the winners from Fr. Conceicao Rodrigues named 'KEDS' [Kevlyn Kadamala, Darlene Nazareth, Sheryn D'souza, Elita Menezes] securing the 1st place where in they worked on 'depression detection' and created a perceptive application which will prove to be a helping hand to all those who have been battling depression. The 2nd prize was bagged by team 'Bits&Bots' from DJ Sanghvi & Thadomal [Yash Chachad,

Sakshi Uppoor, Siddhi Jhaunjhunwala, Saurav Uppoor] where in their topic was 'language translator'. The team securing the third place was 'void' [Adnan hakim, Bhavesh Singh, Ali abbas, Arsh shaikh] from Dj Sanghvi, where in they built an application on 'live whiteboard'. To sum it all, hackathon 2019 was a grand success, proving to be another feather in the cap for the institution.

**Prof. Madhavi Waghmare**  
**Prof. Chandan Kolvankar**  
(Staff Incharge)

## ECELL

ECELL-VCET is the Entrepreneurship Cell of Vidyavardhini's College of Engineering and Technology. The main motive of this committee is to help the students in understanding the concept of entrepreneurship and give a platform to present their ideas to the corporate world. This committee is run by around 20-25 students from all the branches with the support and guidance of the faculties. Various seminars and meetups are arranged throughout the year which gives the students a perspective and idea about entrepreneurship, where and how to begin.

Ecell also organises ESUMMIT AND INTERNSHIP FAIR.

INTERNSHIP FAIR is a two day program where various companies come in college and students get a chance to give an interview in their choice of company.

ESUMMIT is a two day summit where people from various professions come and share their life stories, from failure to success, how one decision changed their life, this all brings a right perspective in student's life which helps them to make their deci-

sions in a correct way. which helps them to make their decisions in a correct way.

OUR SPEAKERS FOR ESUMMIT 2020 DAY 1:

Mr. Ravi Poddar - Founder of Kavya dyeing and printing mills

Mr. Milind Kelkar - Owner of Simco printing equipments

Ms. Reema Chitalia - Founder Edufit test prep

Mr. Shashi Mukherjee - Actor, content creator, ex-TVF.

A YouTube panel session was also organised with

Mr. Sumer Singh- Founder LMT(last moment tuitions).

Ms. Suman Kothari- Blogger, influencer, content creator.

Mr. Rushikesh Gorad- YouTuber, filmmaker.

This session was organised for the students to get a better idea about the social media business world.

Day 2:

Mr. Hitesh Awtaney- Head of initiatives navyuvak.

Mr Shekhar Bhadsule- managing trustee saguna rural foundation.

Mr. Ulhas Rahte - Sigma polymer vasai industries.

Mr. Ramnik Panchal- A man who pursued his dream of being an entrepreneur at a quite elder age proving us all that age is just a number and that dreams need the passion and will to get fulfilled.

Ms. Anisha Patil YouTuber, financial industry professional.

Mr. Apoorv Shaligram- Co-founder and director e-vaahan

And at the end of esummit a standup comedy show was organised for the students and faculties of VCET.

Mr. Andy Reghu and Mr. Avdhoot Patil made sure that it was a hit.

**Prof. Chandan Kolvankar**  
President, ECELL

## VMEA

Vidyavardhini's Mechanical Engineering Association (VMEA) traces its origin back in the year 2000 when it was formed by the students of Mechanical Engineering Department. From the day of its evolution till date this committee has been working to enhance practical knowledge along with providing an industrial exposure to the students of the department.

Various technical events are organised by the committee on inter and intra departmental basis which provides a co-curricular platform for the students. The details of the events and their outcomes are listed in the report.

The academic year began with the recruitment of new members in the committee. Many enthusiastic and dedicated students willing to put efforts in the committee were recruited. For the very first time students from the First Year Engineering were also made a part of this committee and given an exposure to the industries right from the beginning of their career.

The first major event which the committee undertook was MECHEXPO

This is a technical exhibition wherein students of the committee approach various industries of Mechanical Engineering domain, understand its manufacturing, working and functions. These products are exhibited and explained to each and every student providing industrial and practical knowledge to them.

Other two major events lined up in the even semester were Quizmania and VNPS. Quizmania is an intra departmental quiz competition consisting of technical as well as general knowledge questionnaire designed by the members of VMEA. It helps to test the knowledge of the students with a sense of competition amongst themselves. VNPS is Vidyavardhini's National Level Project Showcase, an inter departmental project showcase competition wherein final year projects of the students from all over the city are showcased. These projects are judged by some expert industrialists and the winners are awarded with prizes

It is a huge regret in saying that .



these events, Quizmania and VNPS, could not happen this year due to the unwanted and unfortunate Pandemic situation. However the team of VMEA and all the students were all set with the preparations to conduct these events with complete dedication.

I extend my sincere thanks to Prof. Dipak Choudhari, Staff In-charge of VMEA, for his guidance and help throughout. I would also like to thank our respected HOD, Dr. Uday Aswalekar Sir, for being with us always.

Nonetheless I would like to appreciate each and every member of the committee right from the First Year to the Final Year for being a part of VMEA and making this name a great success.

Mufaddal Kagalwala  
President  
VMEA

## CSI

Computer Society of India is the first and largest body of computer professionals in India. The CSI students chapter of VCET was established in the year 2003. Amidst all, its other responsibilities the CSI students chapter understands that the primary objective of its existence is to promote the development of a coding culture and to help students ameliorate their technical skills. To achieve this, CSI-VCET organizes various technical seminars, workshops, coding competitions, and project showcases every year.

A few out of the many initiatives that were undertaken by CSI-VCET to provide all the tech enthusiasts with a platform to exhibit their skills are as follows:

1] The CSI-VCET student's chapter organized ABACUS and ELIXIR which are project showcase events held at an intra-college level. It provides a platform for students to showcase their innovative project ideas. Apart from exhibiting projects, we also conduct fun tech quizzes and events which makes learning really easy and fun.

It was conducted on 19th September, 2019.

2] "ANDROID APP DEVELOPMENT WORKSHOP" was a workshop conducted under the banner of CSI-VCET and guidance of Mr. YADNESH MOHAN ZAGADE(CEO, Tehcryptors) and Mr. ONKAR KISHOR NAGARKAR. The workshop was conducted on 5th October, 2019; with a total of 68 attendees, with a vision to acquaint the students with the intricacies of the domain of "Android App Development".

3] "DevOps Workshop" was another workshop conducted by CSI-VCET under the guidance of Mr. NILESHKUMAR CHALLANI(Senior DevOps Architect, TCS) and Mr. SAIKRISHNA NALLA(DevOps Engineer & Automation expert, TCS). This would help the students in increasing productivity, standardizing the process, improving quality, and faster delivery of all software components. This workshop was successfully conducted on 7th March, 2020; with a total of 70 attendees.

4] CSI-VCET also understands the need for inspiring the students to be in sync with the present trends in technology. This is done by conducting seminars and workshops every few weeks, wherein students gain knowledge about various fields of interest. One such seminar was conducted on "MACHINE LEARNING" which was conducted by MR. MANISH KAUSHIK (Microsoft student partner), MR. ALI MUSTUFA SHAIKH (Software innovator, Intel), MR. GANESH TIWARI (Microsoft student partner), MR. SMIT JETHWA (Microsoft student partner) and MR. PRATIK PATHAK (Senior software engineer People Interactive). The seminar turned out to be extremely engaging and informative as all the aspects

and prerequisites of Machine Learning were discussed in a very elaborate manner. This seminar was conducted on 12th March, 2020; with a total of 118 attendees.

But this all wouldn't have been possible without the constant support and guidance of all the teaching and non-teaching staff of the Computers and IT department. We are highly indebted to the HODs of both the departments and helping CSI-VCET bring out the best in students and making these technical events a grand success.

**Raj Katodia**  
Chairperson, CSI-VCET

## IEEE

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity. With a vision to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

IEEE Student Branch VCET aims at empowering students & inculcating in them essential professional skills like teamwork, leadership, managerial skills, etc. through events like Technical Workshops and seminars, Guest lectures by industry experts from diverse backgrounds, hands-on software and hardware workshops and training sessions.

The year 2019-2020 started with

the very first event i.e. Seminar on Microwave Engineering for the third & fourth year engineering students, but was also attended by first and the 2nd year students. On 29th August 2019, which was taken on by Dr. Harish Dixit, the alumni of VCET who is lecturer at BITS, Hyderabad campus. The seminar started with the basics of the microwave engineering and also some examples based on day-to-day life were given and also exposed to innovative technologies based on microwave engineering. And later on, an in-depth explanation of how microwaves are used extensively in today's world and how microwave engineering is used to design and develop various machines such as a two cavity - klystron. A brief explanation was given about several applications such as backward wave oscillators and how they're used to generate microwaves.

The very next event was IEEE

Poster Presentation by students to showcase annual activities conducted under IEEE-SB. And IEEE Student Branch Of VCET won second prize in the competition held at IEEE Bombay Section PHOENIX 1.0, K.J. Somaiya Institute Of Engineering and IT, Sion on 11th September, 2019.

The Anveshan-19 was a bull's eye this year! It saw around 241 participants. It was held on 19th September 2019. This event is an eye-opener to all the technology students. It introduces students to the new technologies around us showcased by various companies! IEEE hosts the Product showcase in association with IETE.

As the advancements in the field of robotics, a 2- Day Hands-On Drone workshop for students to demonstrate drone design and aviation, in association with Drona –Aviation & Eduvance for the students on 28th&29th September 2019.

On 1st October , Students of N.G.-VARTAK Jr. COLLEGE visited VCET and were exposed to various sessions on topics such as robotics ,electronics ,satellite communication by VCET students on account of IEEE Day, which was attended by a total of 150 students.

With the kick start of the new semester, IEEE organized a seminar on “Pathways after Engineering” to guide students on various available fields after graduation. The spokesperson was the alumni of VCET, Ms.Swati khedkar, which was attended around total of 58 students on 24th Jan. After giving a proper guide of pathways after engineering to the students, IEEE-SB organized an seminar on “Importance of Research for undergraduates” by Dr.Satyanarayana,TIFR Scientist which was attended by students from all branches and all year on 6th Feb 2020.

To impart Students the knowledge of microcontroller, a 2-Day Hands on Arduino Workshop was organized for the second year students of EXTC .To get acquainted with the Arduino tools and enhance technical knowledge under the guidance of our respected Faculties Prof.Shaista khanam and Prof. Trupti Shah on 26th February.

After arranging a numerous events for the second, third and fourth year students IEEE-SB organized a quiz competition for the First year engineering students on 3rd March 2020 for 2 days.

The last event was an Industrial Visit to TIFR . On 14th March , the students were exposed to in depth practical aspects and design flows of FPGA and sessions on High Energy Physics and signal processing. The event was attended by 20 students.

This constant support, opportunity, guidance and the motivation; the committee extends our special Thanks to our Dean, Dr. Vikas Gupta and Prof. Sunayana Jadhav, Branch Counselor IEEE-SB. We would also like to thank our members for their highly driven, energetic and active participation. We hope that the community strives harder and reaches greater heights under educational activities in coming years.

Yash Kumthekar  
(Chairperson)  
IEEE

## IETE

The Institution of Electronics and Telecommunication Engineers (IETE) is India's leading recognized professional society devoted to the advancement of science, technology, electronics, telecommunication and information technology. The Institution provides leadership in scientific and technical areas of direct importance to the national development and economy. Government of India has recognized IETE as a Scientific and Industrial Research Organization (SIRO) and also notified as an educational institution of national eminence. The IETE focuses on advancement of electronics and telecommunication technology. The IETE conducts and sponsors technical meetings, conferences, symposium, and exhibitions all over India, publishes technical and research journals and provides continuing education as well as career advancement opportunities to its members.

The department of Electronics and Telecommunications engineering has constructed a branch of IETE. Considering the principles of IETE, several events are organized to mold the students to their interest.

The year 2019-2020 kicked off with the very first Industrial visit (IV) to Fox Domotics where students were exposed to applications of IoT. The students were shown a live assembly and building of the circuits involved in the manufacturing of a IoT based product called "Touch Switches". The students also got a lot of technical information pertaining to the circuit design and circuit manufacturing. The processes were done with the help of

a robotic arm which reduced human effort and boosted productivity. Lastly, the students were shown a remote-control operated curtain which could be opened and closed with the help of a remote. The students really enjoyed the experience as it gave them an insight of how IoT technology can be implemented practically.

A drone workshop was organized on 28-29th September by IETE VCET in collaboration with Drona Aviation and Eduvance to give a firsthand experience to the students of first year and second year. The workshop was organized as the topic had gained momentum amongst masses. The workshop was divided into two days and it offered a hands-on experience to students assembling the drones from DIY kits and they were also introduced to the concepts of aviation & mechanics. The workshop was very fruitful for the students as they got to learn about the science of drone mechanics and drone making.

The Anveshan-19 was a bull's-eye this year! It was held on 19th September 2019. This event is an eye-opener to all the technology students. It introduces students to the new technologies around us showcased by various companies! IETE hosts the Product showcase in Association with the IEEE. Products ranging from smart lights and elevator panels to humanoids and 3d printers, there were products from over more than 30+ companies which were an eye-opener towards the current technologies. This event helps bridge the gap between the students and companies and helps

students for their projects and future ventures.

The next seminar was on the topic 'Scope of Very Large Scale Integration (VLSI)' on 29th of January 2020. The star spokesperson was the alumni of VCET, Mr. Chaitanya Amin. This seminar was an insight to the VLSI's Importance and its Applications. This seminar showed the importance of VLSI as a trending field to be pursued by the students after their graduation. It also showcased the various opportunities available for students in this sector. There were more than 50 participants.

A series of webinars was launched on the topic 'TECHNOLOGICAL ADVANCEMENTS IN THE FIELD OF ELECTRONICS & TELECOMMUNICATION ENGINEERING' in association with IETE-SF and IEEE-SB from 5th May to 9th May 2020.

Due to the Advancement in the field of robotics, the first webinar session was on the topic "Introduction to wireless sensor networks and IOT" and was presented by Dr. Saurabh Mehta, who is currently a Chief Academic Officer & professor in VIT, Mumbai. The seminar started with the Introduction to some wireless technologies and then he gave a detailed introduction to Wireless sensors. After giving some basic information about sensor networks, students were being introduced to numerous applications used in the field of IOT and on Wireless sensor networks.

The second advancing field in the industry is "Embedded System and its Application" and that's the topic of the second session of the webinar. Which was being presented to students by Mr. Maneesh Singh, a Sr. Embedded Software Engineer at Tesseract Imaging

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Pvt. Ltd. The webinar started with topics such as basics of an embedded system and it also covered various details such as the scope of embedded systems as a career and the skill-set required to be one.

The third and the most important session of the webinar series is the "Internet Of Things opens doors to endless Application". The webinar was presented by Dr. Rita Jain ,Co-founder of AVRN labs, Bhopal. This webinar covered topics such as the importance of IoT in today's world and the future scope. The webinar also exposed the use of AR technologies and also gave explanations of how different types of technology are being used for development of IoT.

The fourth seminar was on the topic "Microwave Engineering for Strategic and Societal Applications" by Dr. Harish Dixit, BITS Pilani Hyderabad. The seminar started with the basics of microwave engineering and also some examples based on day-to-day life were given and also exposed to innovative technologies based on microwave engineering. And later on, an in-depth explanation of how microwaves are used extensively in today's world and how microwave engineering is used to design and develop various machines such as a two cavity - klystron.

The last session of the webinar series was on "Machine Learning and Artificial Intelligence" This amazing session was being hosted by Mr. Pratik Tirodkar, CEO/Founder, Build My Project. The session started with "What is AI?" and then explained the applications of the AI in the real world, what it is related to and how its gonna change the world in the coming days.

This constant support, opportunity, guidance and the motivation; the committee extends our special Thanks to our Dean, Dr.Vikas Gupta and Prof. Shaista Khanam, Branch Counsellor IETE-SF. For the highly driven, energetic and active participation of our members of the committee; we thank them a lot. We hope that the community works harder and reaches greater heights under educational activities in coming years.

**Omkar Samant**  
IETE Chairperson

## ETA

“Either write something worth reading or do something worth writing.” – Benjamin Franklin

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

Continuing the trend this year too ETA published informative and rich newsletters and also this year we have come with our interview series on our Instagram account where we interview students/industry people. We released our newsletters on the topic 'Flexible Electronics' and 'Cognitive Technology' for the academic year 2019-20

We have released our tenth edition of PULSE Magazine i.e. PULSE'20 with the theme as 'ELECTROMAGNETICS & OPTICS' that has included articles about Electromagnetics, its applications in different fields and scope. The magazine not only includes Departmental Events, Alumni Talk and Student Achievements but also have included Expert notes from DRDO and various other Tier-I colleges/universities. I would like to appreciate the work done by Secretary, Ms. Saili Sakpal and her entire team. Also I'm delighted to witness the progress of students in co-curricular and extracurricular activities

**Mrs Ashwini Katkar**  
Staff-Incharge,ETA

## Team Ethan Racing

Team Ethan Racing is the official Formula Student Racing Team of Vidyavardhini's college of engineering & Technology, provides a platform for young exuberant engineers to develop and improve themselves for racecar Engineering & Manufacturing within the context of building a formula style racecar and competing against other teams at a national level competition.

The team Participates at a national level racecar Engineering design competition known as Formula Bharat, which is held every year in the month of January. The team had secured 24th rank in this event held in 2019 and 6th rank in the registration quiz for the competition held in 2020.

The main motive of the team is to learn new things apart from regular engineering curriculum and thoroughly grasp all the basic and advanced engineering concepts that we learn throughout our engineering degree program and to gain maximum exposure to various engineering fundamentals like GD&T, Computer Aided Designing, Manufacturing Processes, hands-on-experience of various Simulation & CAD softwares.

This platform also provides an opportunity to all the members to learn other skills such as project management, team work, business planning & Presentation R&D, Cost & Risk analysis and more, which moulds an engineer to be efficient employees, managers or entrepreneurs in their future life.

The team works under the guidance of our faculty incharge Prof.Sanjay Lohar who is accompanied by Prof.Raahul Krishna.The team had an overwhelming support from the college management,our respected principal Dr.Harish Vankudre,The head of Department of Mechanical Engg-Dr Uday Asolekar and our sponsors, owing to which we have been able to grow ,develop and improve our vehicle, making every new car we design better than its preceding one.

The team shall continue to rise and inspire the new upcoming engineers aspirants by increasing their reverence for team spirit and automobiles and perform better in the upcoming years.

**Ashutosh Mohol**  
Team Captain



## Training & Placement Report 2019-2020

The T&P Committee at Vidyavardhini's college of Engineering and Technology is a body which is responsible for carrying out all placements 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 organizations to work with. The Placement Committee looks into tasks like student skills development, soft skills training, student's skills-job mapping and placement related event organizing. 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 play an important role in developing and sustaining a long term mutually beneficial relationship with the industry.

Accordingly, for the academic year 2019-20, we conducted following trainings and Seminars for the students:

- Career Launcher training for 3rd Year Students.
- Mock Group Discussion and Personal Interviews for Final Year Students.
- CoCubes Continuous assessment test.
- Soft skills development Program
- Competitive Exams Awareness Programs
- Industry Institute Interaction event.

We had a number of breakthroughs records this year. We started with Infosys as Day 1 Company with 112 offers. 293 offers were made to students by 24 companies till 01st July 2020. Various students also got elite offers in various companies with the highest offer being 10 LPA at BYJU'S. 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 with passage of each year. We at VCET have tied up with Co-Cubes, India's leading online assessment and hiring platform for PRE-ASSES tests and campus placements, and Career Launcher which is training institute providing Campus recruitment training, employability skill training.

### Placement Highlights for the Year 2019-20:

- Umang Waghela (BE-EXTC), Deeksha Kamath (BE-EXTC), Yash Kumthekar (BE-EXTC), Rishabh Tiwari (BE-MECH) and Sumeet Dinda (BE-MECH) placed in BYJU'S with package of 10 LPA.
- Akash Rajpurohit (BE-IT), Ketan Patil (BE-COMP) and Aditya Bijur (BE - COMP) placed in Media.net with package of 8.2 LPA
- Prarthana Majalika (BE-COMPS) and Sanchit Vartak (BE-COMPS) placed in Infosys as a power programmer with 8 LPA.

COMPANY	Civil	COMPS	EXTC	INSTRU	IT	MECH	Grand Total
Amazon AWS		2			3		5
Atos-Syntal		1			3		4
BNP Paribas		2			1		3
Burns & McDonnell	1						1
BYJUS	2	2	3			3	10
Capgemini		2	2		2		6
Cognizant		5	5		4		14
Endurance		1					1
Feedspot		2	1				3
IBM		3	3		1		7
Infosys	8	33	17	6	27	22	113
Ingenious Technologies Pvt Ltd.			2				2
Jayashree Polymers						1	1
Khodiyar Group of Companies	2					3	5
LTI		14	1		17	3	35
Media.net		5			3		8
Neebal		2			6		8
NeoSoft Technologies		1					1
RAW Engineering			6		6		12
Tata Consultancy Engineering				1			1
TCS		23	4	4	19		50
Tecnimont				1			1
Vistaar		1					1
Zeus Learning		1			1		2
Zycus					1		1
Grand Total	13	100	44	12	94	32	295

**Placement Details As on 01.07.20**

Student Coordinators for the year 2019-20:

**BE Coordinators:**

COMPS	KRIKA RAO
COMPS	ANIRUDH SHINGALA
INFT	KAMLESH BORANA
INFT	GAURAV GAWADE
EXTC	PRATIK WAGEHLA
EXTC	UMANG WAGHELA
INSTRU	DIVYANG TRIVEDI
INSTRU	JAYSHREE NAIR
CIVIL	CLOVIS MACHADO
MECH	SARANG PATIL
MECH	YASH SHAH

**TE Coordinators:**

COMPS	KRIKA RAO
COMPS	ANIRUDH SHINGALA
INFT	KAMLESH BORANA
INFT	GAURAV GAWADE
EXTC	PRATIK WAGEHLA
EXTC	UMANG WAGHELA
INSTRU	DIVYANG TRIVEDI
INSTRU	JAYSHREE NAIR
CIVIL	CLOVIS MACHADO
MECH	SARANG PATIL
MECH	YASH SHAH

**SE Coordinators:**

COMPS	RITVIK VEDPATHAK
COMPS	PARTH DESAI
INFT	SWETA GUPTA
INFT	YUKTA UPADHEY
INFT	NEEL MEHTA
EXTC	AISHWARYA NAIR
EXTC	SRIRAKSHA KOTIGAR
INSTRU	FARYAR MENON
INSTRU	DRUMIL BHATT
INSRTU	ROMIN KATRE
CIVIL	SARTHAK YADAV
CIVIL	ANAGHA NEMADE
MECH	VAIBHAVI MURKAR
MECH	TANAY UDESHI
MECH	SALEEL CHURI

**Staff Members:**

**PROF. PRAFULLA PATIL (PLACEMENT MANAGER)**

**PROF. SANKET PATIL (TRAINING & PLACEMENT OFFICER)**

**Placement Staff Coordinators:**

**PROF. ASHWINI KATKAR (EXTC)**

**PROF. ANAGHA PATIL (IT)**

**PROF. VIDYA PAMALE (INSTRUMENTATION)**

**PROF. MUKUND KAVEKAR (MECHANICAL)**

**PROF. KAMLESH BACHKAR (MECHANICAL)**

**PROF. VIKRANT KOTHARI (CIVIL)**

**PROF. SNEHA MHATRE (COMPUTER)**

**Prof. Sanket Patil**

## NSS Annual Report

The NSS was formed in 1969 with an aim to inculcate the social welfare thoughts in the students and to provide service to the society without any prejudice. The Motto of NSS "Not Me But You", reflects the essence of democratic living and upholds the need for self-less service. The philosophy of the NSS is a good doctrine in this motto, which underlines the belief that the welfare of an individual is ultimately dependent on the welfare of the society as a whole, and therefore, the NSS volunteers shall strive for the well-being of the society. National Service Scheme (NSS) has been introduced at VCET since 2019 as a part of the academic programs and will continue to function as a regular feature in the realm of our education.

It is indeed a great privilege for me to present an abridged Annual Report on the activities of NSS Unit, VCET College during the academic year 2019-2020. The year began with the outset of scouting zealous volunteers to participate in the social deeds. Receiving a large number of enthusiastic participants, the journey of the change we believe in commenced.

The 73rd Independence Day of our nation was celebrated with great enthusiasm on the 15th of August, 2019. The Indian tricolor unfurled in the college campus with the patriotic tunes played, raised the patriotic fervor in the crowd, thus observing this historic day with gusto and revived the oath of being dutiful citizens of the nation.

Further acknowledging the devastating incident of the Amazon Rainforest, on 26th August 2019 the event "Tree Plantation" was conducted at the Jeevdani Trust, Virar with the aim of planting 7 trees for 1 human being. Giving impetus to the afforestation drive, altogether 270+ saplings were planted as a small act of kindness towards nature.

The committee members also participated in Swaccha Bharat Cleanliness Drive at Vasai station on 2nd October on account of Mahatma Gandhi Jayanti. Students armed with brooms, hand gloves, and face masks participated in the drive by tackling out of control littering around the station. Working with complete sincerity and receiving appreciation from onlookers, being a part of the cleanliness drive was a satisfying experience.

Furthermore, we had the Beach Cleanliness Drive at Navapur beach, aiming to create awareness amongst the many, and their responsibility in keeping the beaches clean. The event was a great success with the members cleaning a total area of 400 meters. Just as every year, students had no bounds of joy when it came to the event "Raise Your Voice". The theme for this year's event was 'SWAMI VIVEKANANDA AND HIS VIEWS ON MODERN WORLD' which enchanted the students to voluntarily participate and make this event memorable.

## NSS Annual Report

This year witnessed the most remarkable and never happened before the grand event - "NSS RESIDENTIAL CAMP" at Khelton Village, situated in Vajeshwari, in the exteriors of Virar City. The objective of the camp was to refine our perspective towards the outer less privileged world, empathizing with their shortcomings, thus looking forward to a sustainable solution. The camp comprised of conducting surveys, collecting water samples from each house for a quality check to laboratories. Also, "Solar Workshops" were conducted with the expertise of the college faculty, helping the villagers on alternative sources of energy. Rally marches were carried out to highlight the importance of a girl child. Nevertheless, going to schools and providing basic computer education to the enthusiastic children was memorable. It was quite a self-developing journey, learning much more about being independent and always having an eye to lean forward to help the needy.

With an aim to promote the act of kindness amongst the young generation, the NSS UNIT has been conducting culture-centric programs. MEGA DONATION CAMP also proved to be a platform to donate a set of stationery, clothes, food supplies among the needy in and around the town. Lastly, the NSS committee organized the most exciting and witty Departmental Quiz Competition 'INQUIZITIVE-IMPORTANCE OF HUMAN RELATIONS'. Teams from every department participated in the event and played through various rounds.

Looking back to these memories, my heart is filled with joy and I'm quite humbled of the journey me and my teammates have embarked upon. I can't thank enough my team members for supporting me and believing in my vision to make this happen. Respected Prof. Pradip Gulbhile played a pivotal role in shaping the NSS Unit, as well as much respect and gratitude to our dearest Principal Dr. Harish Vankudre for being the torchbearer and guiding our way. I would end by wishing the committee my best regards for the future journey.

**Devbrat Singh**  
President

# ISHRAE

## STUDENTS CHAPTER INSTALLATION CEREMONY

On 23rd August 2019 ISHRAE Mumbai Chapter had organised a grand installation ceremony and ISTL launch for all of its Student's Chapters. The ceremony was initiated by lighting of lamp by the chair members of Mumbai Chapter with president- Mr. Mihir Sanghavi, president elect- Mr. Rajendra Joshi, secretary – Mr. Kishor Karle, student activity chair – Kunal Bhavsar and other chair members. After lamp lighting Mr. Mihir Sanghavi gave a brief about the ISHRAE committee, how it is beneficial for every engineering student and professionals, what is the Motto of this huge organization and how it is spread all over India conducting various conferences, seminars, workshops and exhibition such as ACREX, REFCON, REFCOLD, JOB JUNCTION etc. He also guided students with time and money management and advised us to read books such as Rich Dad Poor Dad, The secret and after this he handed the dice to Mr. Rajendra Joshi (president elect of Mumbai chapter). Mr. Joshi aware the students about the ISTL (ISHRAE Students Technical League), how it is enhancing the skills of students participating in ISTL and making them ready for their future career by giving them a one year equivalent industrial exposure in the field of HVAC&R after this he handed to Shyamir Khan, winner of ISTL 2018-19 from D.J Sanghavi College of Engineering and Technology. Shyamir gave a brief about his experience with working along the professionals of the industry and guided us how can we start with our project.

## AQUEST

AQUEST is a student competition organized by ISHRAE every year which is concluded with Grand Finale at ACREX INDIA, South Asia's largest Exhibition on Refrigeration and cold chain, Air conditioning, Ventilation and Intelligent Building Services. AQUEST is national level quiz competition for the student members of ISHRAE. It is chapter level qualification round paper based quiz competition is to be conducted by ISHRAE Mumbai Chapter. This year it was held at SADAR PATEL COLLEGE OF ENGINEERING at ANDHERI on Friday 1st of November. QUIZ competition program consist of a set of question based on categories such as Thermodynamics, Fluid mechanics, Heat transfer, Thermal systems, RAC/HVAC System, Workshop technology, Indoor air quality, General knowledge, Entertainment. Scoring consist of 5 point on correct answer and -2 on wrong answer marking, more than one option will be awarded Zero marks, Total time for entire quiz was 45 minutes Top 3 teams will representing MUMBAI CHAPTER for Quarter final. There were total 30 questions 3 Questions from each category. Preliminary round started at 2 pm till 4 pm and at the end of the day final result for prelim round read by the Mumbai faculty in charge. All faculty members congratulated the winners for the next zone.

## MECH-EXPO 2019

Mech-Expo is a technical exhibitory event conducted by Mechanical Engineering Department of Vidyavardhini's College of Engineering & Technology. This year it was held on dated 19/09/2019. 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 kind of exposure enhances and refines the overall understanding of students and increases their inquisitiveness to emerging technology in the field of engineering. Mech-Expo 2019 involved various products such as 3D Printer, Construction Machines, Valves, Compressor, Moulds, Pneumatic components, Fasteners, Automobile components, springs and many more products which provided a great knowledge to students as well as other visitors. The Theme of MECH EXPO 2019 was particularly eye-catching as it was on "Measuring Instruments". This Theme was Chosen to show the base of Mechanical Engineering which are the instruments which are used for doing all the basic works of Engineering. Vernier Caliper, Micrometer, Speedo-meter, Dial gauge were the centre of attraction of this theme. This theme was appreciated and welcomed by everyone. The Inauguration of MECH EXPO 2019 was done by Mr. Baptis Jack, Mr. Yash Shah and Mr. Vrushank Choudhari, they guided us about Mechanical Engineering and told us how to utilize these four years of engineering to the fullest. After this Informative Interaction they went around looking at the products we brought in and gave their precious advice to the students elaborating the Products. After this they were felicitated by the Members of VMEA & ISHRAE Committee in HOD's office. They were presented with mementos as a token of our appreciation and they

appreciated our efforts and told us that the idea of MECH EXPO is a great success. Various Industrialists, Professors, Students of Anna Saheb Vartak School also visited MECH EXPO. Students were very excited to see the product showcase and after visiting the MECH EXPO the feedback for the students was great they enjoyed the event. Through these event they were able to gain a great deal of knowledge about the field of Mechanical Engineering. There was positive feedback from the industrialists who visited MECH EXPO.

#### **ISHRAE-VCET Students Chapter Presents Seminar**

The ISHRAE-VCET Students Chapter of Department of Mechanical Engineering arranged a seminar talk for ISHRAE member of students on the topic: "Fundamentals of HVAC & Centralized Chilled Water Air Conditioning System." on dated 27thFeb'2019 at 3:30 to 5:00pm in seminar hall (3rd Floor.). Total 103 students were present for the seminar and faculties from Mechanical Engineering Department. The guest speaker for the seminar is Mr. Mr.Swapnil Juvekar, Area Manager Infrastructure Solutions, Voltas Ltd., Mumbai, India accepts our invitation and presents the seminar. The detail contents about the seminar were awareness and current HVAC industrial scenario, future scope, Industrial challenges and Job opportunities. Market strategies for HVAC industries, heat load calculations related case studies, selection and sizing of entire HVAC equipment and chilling system. The seminar starts at 3:35pm in seminar hall (3rd Floor) with welcome flowers.

Student readout the achievement of speaker and its CV. The guest speaker is working in Voltas Ltd. as area Manager Infrastructure solution with 7 years' experience in HVAC system Design and Project Planning. He has professional qualification as BEE certified Energy Manager and Energy Auditor and IGBC AP, He was Guest speaker in Tech Talk at our ISHRAE Mumbai Chapter. Prof. V.D.Patel, faculty in charge of ISHRAE-VCET Students Chapter also highlighted the various activities held during the year. Chapter installation program, seminar, industrial visits, IJJ (ISHRAE Job Junction), aQuest, Acrex, Project Fund for Graduate Ishrae student members, their participation in various events held in Mumbai chapter and other Ishrae chapter. The guest speaker starts the presentation with PPT.

Need of energy, importance of energy in today's life, need of air conditioning systems, comfort of zones, asked questions to students about the psychometric charts, Plot the psychometric charts, need and manufacturing of air condition systems in details explained by speaker. The students were enjoying during the seminar. This is total interactive session. They asked a multiple question during question answer session. As a token of love the mementos present by Vinay Patel, faculty in charge of ISHRAE-VCET students Chapter. At the end student fill up the feedback forms. The Vote of Thanks read by Mr. Pratik, Vice President of ISHRAE-VCET Students Chapter, Vasai.

**Pratik Chudasama**  
President

## FACEOFF 8.0

After smashing a triumph of FACEOFF 7.0, it was only logical to grace the new year by another addition to our FACEOFF series, the FACEOFF 8.0. Held in the honour of beloved founder, the concept of FACEOFF arose out of a genuine effort to concentrate and focus the inter-departmental rivalry into a productive form. The teams argue and debate all the way for the sought after "Padmashri Bhausaheb Vartak Memorial Trophy".

On 12th and 13th March 2020, the Literati Committee's working force; began with the FACEOFF 8.0. This year saw a clash between nine teams namely the Mechanical Renegades, the Mechanical Rangers, the Comps Gladiators, the Instrumentation warriors, the Telecom Terminators, the IT tornadoes, the Ash Avengers, the Civil Knights, and the ASH Rockers.

Calling it a big hit would be an

understatement. The inter-departmental debate championship turned out to be a big blockbuster. Topics ranging from political to social issues were tackled and hurled at each other by the teams witty remarks and dry humour.

The finale had everyone holding on to their seats if their lives depended on it. A more intense argument and more enraptured audience were never to be seen. The overwhelming response to the event was evident by the jam-packed seminar hall.

The two days of fierce debating concluded in Instrumentation being crowned the debating champions and IT tornadoes being the runner ups. The event was conducted with a splendour as marked by the thunderous applause and the gusto of the loyal spectators. The profound efforts of the Magazine committee finally bore fruits of success and set another benchmark to work towards.



## C.E.S.A.

CIVIL ENGINEERING STUDENTS' ASSOCIATION (C.E.S.A.) is a student' association of Vidyavardhini's College of Engineering and Technology which has always been looking after the betterment and welfare of the students by providing them guidance through all means possible. It has conducted various seminars, workshops, which helps students in understanding Civil related concepts with much ease.

CESA successfully organized the technical fest product showcase named "NIRMITI" for the academic year 2019-2020 on 19th sept 2019. Various industries like Shree Premix industries, Ultracon structural systems, Neem enviro, etc participated in the product showcase. Events namely Technical quiz, Building planner and Campus tracker were conducted. In-spite of being a Civil Engineering event, students from various departments actively participated in the event and made it a grand success. The objective of these events was to enlighten the students with the skills and knowledge they need in practical life.

During the pandemic when the college was not functioning C.E.S.A. took the initiative to help arrange webinars for students on various topics, as students were not able to attend college physically which made it harder for them to understand some complicated concepts. The concepts were made a lot simpler for the better understanding. The webinars turned out to be a major guidance for students to adapt technological advancements in the field of Civil engineering.

We would like to express our sincere gratitude towards the College Management, our Principal Dr. Harish Vankudre Sir, HOD Dr. Sunil Kirloskar Sir, C.E.S.A Staff Incharge Prof. Viren Chandanshive Sir and the entire faculty of Civil dept. for their immense support and encouragement for the development of the committee.

**Mihika Malankar**  
President  
C.E.S.A.

## Digital Committee

The Digital Committee is primarily aimed at enhancing the presence of our college on the social media platforms and handling official website of the college Digital Committee is headed by Prof. Madhavi Waghmare and Co-ordinated by Prof Yogesh Pingle, Website Incharge, VCET Also, Mr. Sachin Sadare founder of Digital Dojo Pvt.Company is associated with us as a consultant.

We all know that in today's world social media plays an important role in the field marketing and hence by using this platform we focus at advertising the various aspects of our college such as the amenities available, academic achievements, sports achievements, and event organized so that these aspects are not only known to our college students but to everyone. With digital marketing technology we can start consultancy and

also can start startup using this.

Throughout the year the committee has revamped the college official website and app development is in progress. Also, working for inbound marketing, content distribution strategy, search analytics and other digital marketing tactics.

If any one wishes to display any of their projects, events, achievements, on our college social media platforms then they write to the digital committee at [digital@vcet.edu.in](mailto:digital@vcet.edu.in) also, you can communicate to Student Head of Digital Committee for further work.

Following are the sections and the contact details, present in the committee to handle various social media platforms and to provide content for the same

Following are the contacts of all the heads of the committee.

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●Graphics team,  
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The links to the official pages of our college on various social media platforms is as follows

WEBSITE: <https://voet.edu.in/>

YOUTUBE:

<https://www.youtube.com/channel/UCjhw5a7U00GwkxaTjF9jqg>

FACEBOOK:

<https://www.facebook.com/vidyavardhinicole>

INSTAGRAM:

[https://www.instagram.com/\\_n.c.eu](https://www.instagram.com/_n.c.eu)

LINKEDIN:

<https://www.linkedin.com/school/vcetyasaia>

## Team Centurions Report 2020

Team Centurions is one of the seasoned teams of our college involved in the design and manufacturing of an ATV Quad Bike. For the past 5 years, the team has been producing vehicles that personify power and agility simultaneously. Fuelled by an innate hunger to be better than before, the team has been consistently improving throughout the years by testing their mettle (and metal) in National level competitions.

Team Centurions striving day after day to match and exceed the power of the 250cc engine of our Quad Bike with our determination and hard work were placed 11th (All India) in Quad Bike Design Challenge 2020 held at Hyderabad. We were also placed 3rd & 5th in the individual categories of Sales Presentation and Endurance respectively.

Under the supervision of faculty advisor Prof. Sanjay Lohar, the team carries out most of its manufacturing in-campus with the benevolent aid of local manufacturing firms and patrons. Innovative designs, cost effective manufacturing, quick thinking and the attitude to face our problems head-first has been the strategy so far. Naming our vehicles under the series name of the fierce SPARTAN, we further reinforce the insatiable thirst of our team to be extremely persistent and to fine tune our bike to be powerful, irrespective of the hardships we face.

We have already begun our designing phase for a prestigious national level competition Quad Torc- An Off-Road Design Championship to be held at Madhurai, Tamilnadu in August 2020 and are on our way to be nothing less than the best.

**Sharath Mohanan**  
Team Centurions

## **From the Staff-Incharge, Student's Council**



I am really glad I got this opportunity to work with the Students' Council for their enigmatic journey in the year 2019-20. The main aim of the Students' Council is to nurture the creative and cultural part of the students of VCET and give them a platform where they can express themselves through the various extracurricular activities and events organized by the Council. For the members of the Students' Council it is a great chance to explore the management sides which leads to overall development of the students.

Like every year the Students' Council welcomed the FEs with an Orientation Programme and Fresher's Party which was held on 30th August, 2019. They also organized a Teacher's Day for all the staff of VCET to show them gratitude for their support throughout the year on 13th September, 2019. The garba night was also hosted by Council to celebrate the festivity on 4th October, 2019. As Zeal came closer, we prepared for the festival taking excitement a notch higher. For the grand inauguration of Zeal 2020 we invited Chief Guest, Ajinkya Deo and Hon. Mayor, Mr. Pravin Shetty, to grace the event by their presence. Zeal was held on 14th, 15th and 16th of February, 2020. This year's theme was Echoes of Silence, unveiling mysteries and magic, that unravelled the hidden curiosity amongst all of us. New events like Love Letter Writing and Masterstroke were organized along with the several other events hosted every year. Every year the students rejoice Zeal, so this year we had introduced fun Staff Events for the first time in the history of VCET, for all the teaching and non-teaching staff as well, which included events like MasterChef, Love letter writing, Rangoli and many more, everyone had lots of fun and quite some jolly time. The staff events turned out to be quite a success and I hope to take it further and make Zeal a much bigger fest. During Zeal, on the first day that is on 14th February, orphanage girls had visited our college to witness Zeal and its grandeur and they all enjoyed the evening enthusiastically. This year we hosted Sunburn Campus in our college inviting worldwide famous DJ Zenith as a headliner and DJ Joshi was a co-headliner.

I would like to congratulate and thank the entire Students' Council and the Zeal Working Committee lead by our General Secretary, Deepak Joshi and Deputy General Secretary, Atul Naik, and Deputy Treasurer, Nilay Naik and for making my first year working with them such a success. I will be hoping for an even better experience as we proceed to the next year. Thank you.

**Dr. Sunayana Jadhav**  
Staff Incharge,  
Student's Council



## From the General Secretary

It gives me immense pleasure to pen down my enriching, undulating and unforgettable experience of 4 years. A journey that I'll be cherishing for lifetime.

It only feels like yesterday, the memories so fresh and clear, when with an anxious heart and buzzing emotions I set my foot in this esteemed institution.

It all began when I first filled up the form for selection in the council body. I was lucky and fortunate enough to be placed in Admin team wherein my deeper interest into council shone.

As the first year passed, I was selected for the post of Admin Coordinator, and it gives me immense pleasure to reminiscise those days. My journey was then embarked upon, when I became the Admin head in third year, and from that to this day, where I pen down my experience as the General Secretary in my final year has been quite astounding. I am indeed going to miss every single task, every single challenge involved that I've accomplished being in Students' Council.

This Year by adding our own flavour, we tried making each event from Fresher's Party to Zeal 2020 an indelible experience. The even semester reverberated the resounding success of our sports fest AVAHAN and also brought with it a wave of our exquisite extravaganza 'ZEAL- 2020'.

Zeal 2020, to many of you maybe just a festival of three days, but to my team it was an experience of 5 months. Starting right off, from hearing revised dates for Zeal to making it a grand one, me and my entire team take pride in doing so. We weren't sure at first if we would be able to pull it off because of the changes in the schedule, but I had my team as my support and I couldn't be more proud of my colleagues and juniors who made it such a memorable one despite of all the challenges.

My journey so far, with Zeal 2020 being such a grand success, has been quite something. Arranging meetings with the members, to scheduling the entire draft while brainstorming with ideas, all this happened in the making of Zeal. The events, new additions, Grand inauguration, Sunburn Campus, Octaves, framing everything in the right place with co-ordination was like a dream come true in the advancement of Zeal.

I would hope for the best of Students' Council in the upcoming year. Last but not the least, I would express my gratitude to our honorable Principal Dr. Harish Vankudre, Management of Vidyavardini, Council Coordinator Prof. Sunayana Jadhav Ma'am, all the council members, the entire college staff, my colleagues and everyone who in their own way have been a significant part of my journey in the Students' Council Body. Thank you everyone!

This is Deepak Joshi, signing off.

Go VCET!!!

**Deepak Joshi**  
General Secretary



## **From the Deputy General Secretary**

The day does seem long past when I first stepped into the college on 8th August 2016 a rainy day, clueless and also scared of all that it had to offer. Today when I look back to that day I realise that not everything is the same and these days spent in college transform one a lot. And like every other committee member I feel students' council has a big role in it.

Unlike many, my interest in the students' council rose not due to the orientation, but slowly and gradually it started building upon as I got the opportunity to work with this committee and today here I am someone who would want to be a part of this committee for eternity.

The students' council organizes events from freshers party to BE. farewell and while many challenges are faced the most difficult of them according to me is to keep up with times, trends and come up with new engaging events to replace. While it's not easy to scrap an event that you have been planning and doing all those years, what's more difficult is to start an event fresh with new ideas, implementation and making sure it reaches the crowd. In the past couple of years I have seen the committee organize various new events or activities with a bang from the war of DJ's in 2018, beat boxing and grand inauguration in 2019 to a busking session in 2020.

It would be hard for me to imagine what my life would have been if I wouldn't have been a part of Students' Council. I will miss this committee and its members a lot. The whole experience of organizing an event, planning things to minute details, abiding to deadlines surely helped. But the most difficult of this all was to convince others with your idea especially sponsors become more confident, organized and responsible.

I will long cherish my journey with V.C.E.T students' council. These four years of being a students' council member, 3.5 to be apt has taught me quite a lot. I would like to thank all of those who have supported me throughout this journey and entrusted me with this responsibility. The people who contributed to the success of all these events and taking council where it is today. I will likely name some members Mihika, Shubham, Deeksha, Hari, Takshil and Malavika. A very special thanks to Dr. Sunayana Jadhav for putting up with all the small and big goof ups and Prof. Sunil Katkar for his guidance. And sorry if I forgot to take anyone's name. You all mean alot to me.

The support extended by the college governing body by providing this platform and many such platforms has helped a lot. And I would like to thank our Principal sir Dr. Harish Vankudre for trusting us with this opportunity. There is a universal truth we all have to face, whether we want it or not, everything eventually ends. And today where this journey ends I am equally anxious and scared as I was on the first day of college. Not scared of stepping in a new world but that i will have to part ways.

**Atul Naik**

**Deputy General Secretary**

# Force Behind Student Council

Staff In-Charge

Prof. Sunayna Jadhav

General Secretary

Deepak Joshi

Deputy General Secretary

Atul Naik

Cultural Secretary

Srushti Patil, Mayur Koul,  
Pratyush Shetty

PR head

Takshil Patil,  
Shubham Patil

Publicity Head

Omkar Tiwari,  
Devbrat Singh

Deputy Treasurer

Nilay Naik

HR

Ankit Kharwar

Deputy Sponsorship Head

Omkar, Ajit, Sarvesh

Admin Team

Harsh, Rahul

Creative Team

Aaryan, Abhishek, Harsh  
Ishaa, Sreelakshmi, Nishant

Technical Team

Pritesh, Gopikha, Harpreet

Joint Cultural Secretary

Mihika Malankar, Malavika Nair,  
Deeksha Kamath, Areeb Akthar

Creative Head

Buddhghosh Shirsat,  
Juneet Panjri, Paakshal Shah

Task Force Head

Vishal Gupta

Deputy PR Head

Abhishek, Gayatri

Deputy Creative Head

Yogesh, Harshad, Ankit

Deputy Technical Head

Vinay, Sunny, Anriudh, Saurav

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Muazzam, Abhishek, Sakshi, Siddhi

Organizing Team

Parinistha, Vaibhav

Vinit

Publicity Team

Pranjali, Vinita, Tejas

Treasurer

Harikrishn Chauhan

Technical Head

Whitesh More,  
Pratish Bandawar

Sponsorship Head

Mufaddal Kagalwala, Niraj  
Bhilare, Anang Verma

Deputy Cultural Secretary

Apeksha, Shubham,  
Sharath, Reeya

Deputy Organizing Head

Abhishek, Nikita, Swaraj

Deputy Publicity Head

Sakshi, Anushree, Shabbir

Deputy Taskforce Head

Akash, Shashank, Sarvesh

PR Team

Manpreet, Dhruv, Laukik

Taskforce Team

Yash, Varun, Laukik, Nilesh  
Soham, Krishna

Sponsorship Team

Deevium, Sonit, Shivam



# 5 Photo Gallery





## MECHANICAL STAFF



Vidyavardhini's  
College of Engineering & Technology



## ELECTRONICS & TELECOMMUNICATION STAFF



Vidyavardhini's  
College of Engineering & Technology



## INSTRUMENTATION STAFF



Vidyavardhini's  
College of Engineering & Technology



## COMPUTER STAFF



Vidyavardhini's  
College of Engineering & Technology



## INFORMATION TECHNOLOGY STAFF



Vidyavardhini's  
College of Engineering & Technology



## CIVIL STAFF



Vidyavardhini's  
College of Engineering & Technology



## OFFICE, EXAM, LIBRARY STAFF



Vidyavardhini's  
College of Engineering & Technology



## ALUMNI



Vidyavardhini's  
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# BE MECHANICAL - A



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# BE MECHANICAL - B



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# BE ELECTRONICS & TELECOMMUNICATION



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# BE INSTRUMENTATION



Vidyavardhini's  
College of Engineering & Technology





# BE COMPUTER



Vidyavardhini's  
College of Engineering & Technology



# BE INFORMATION TECHNOLOGY



Vidyaavardhini's  
College of Engineering & Technology



# BE CIVIL



Vidyavardhini's  
College of Engineering & Technology



# PLACED STUDENTS



Vidyavardhini's  
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## WOMEN EMPOWERMENT CELL



Vidyavardhini's  
College of Engineering & Technology



## PR TEAM



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College of Engineering & Technology



# SPORTS COMMITTEE



Vidyavardhini's  
College of Engineering & Technology



# ETHAN RACING



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College of Engineering & Technology



# SOLECTHON



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College of Engineering & Technology





# ISA



Vidyavardhini's  
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# IEEE



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College of Engineering & Technology



# IETE



Vidyavardhini's  
College of Engineering & Technology



# ETA



Vidyavardhini's  
College of Engineering & Technology



# ISHRAE



Vidyavardhini's  
College of Engineering & Technology



# VMEA



Vidyavardhini's  
College of Engineering & Technology



# CESA



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# CORE CODING, DIGITAL, I-TECH



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# CSI



# BIT BYTE GO



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## TOPPERS



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## NSS



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## TEAM EMECTHO



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## GERMAN CERTIFICATION



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# HACKATHON



# IPR CELL



# NPTEL



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# CAREER COUNSELLING



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## VCET CRICKET TEAM



## VCET FOOTBALL TEAM



## GIRLS KABADDI TEAM



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## BOYS KABADDI TEAM



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## BASKETBALL TEAM



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## VOLLEY BALL TEAM



Vidyavardhini's  
College of Engineering & Technology



# LITERATI CLUB



Vidyavardhini's  
College of Engineering & Technology



# *Force Behind Literary Club*

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Aishwarya Gawade

## Co- Chairperson

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Neha Dere

## Treasurer

Himanshu Wadekar

## Chief- Coordinator

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Swapnil Vaidya

## Vice Chairperson & Vista In- Charge

Smit Master

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