



XAVIER INSTITUTE OF ENGINEERING



CONNEXIEON '22

XIE VISION

**TO NURTURE THE JOY OF EXCELLENCE
IN A WORLD OF HIGH TECHNOLOGY.**

XIE MISSION

**TO STRIVE TO MATCH GLOBAL
STANDARDS IN TECHNICAL EDUCATION
BY INTERACTION WITH INDUSTRY,
CONTINUOUS STAFF TRAINING AND
DEVELOPMENT OF QUALITY OF LIFE.**



In our hearts always and forever

NIKITA PRIYAM FERNANDES

1992 - 2021

In July 2021, we lost a beloved member of our XIE Family, Ms. Nikita Priyam Fernandes. She was a beacon of light for any student who looked up to her for help. A warm and welcoming person inside and outside the four walls of academics. An IT Professor who conducted book donation camps in 2020 Spandan, always supported Extracurricular activities and fondly remembered as an active member of the Alumni Association. She was so supportive and encouraging to everyone that the absence of her love, laughter, and kindness will be felt by all.

We miss your presence, cherish your memories, love you always, and never forget
you.

Gone too soon.

CONTENT

Buoyant Voyage | ConneXIEon 2022

SECTIONS

01 **PREFACE**

02 **EDITORIAL TEAM**

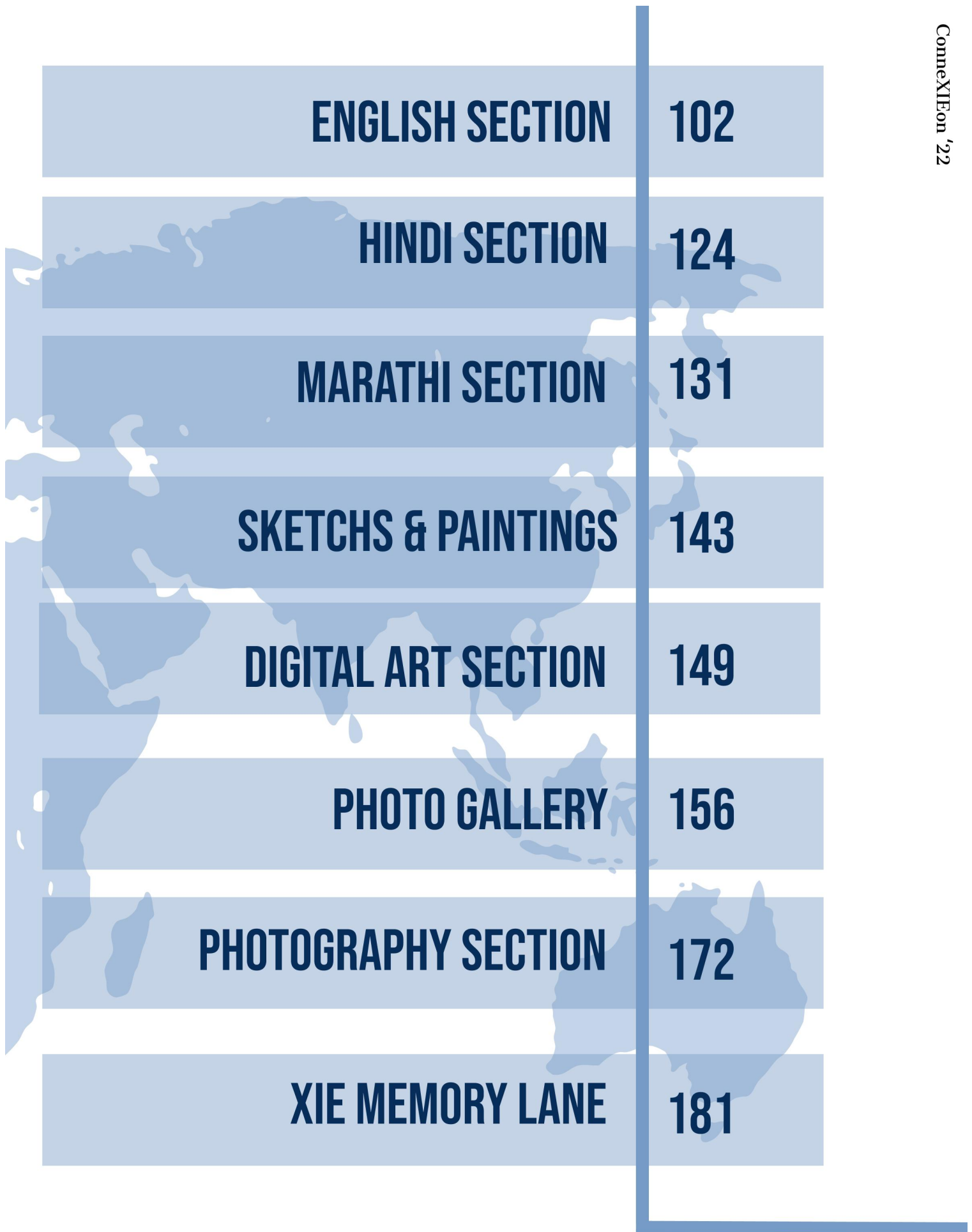
04 **MESSAGES**

10 **PLACEMENT REPORT**

12 **INTERVIEWS**

29 **REPORTS**

75 **TECHNICAL SECTION**



SECTIONS

Head Curator's Message

Through the perils of life, one usually has to go alone. Thousands await to welcome when you reach the shore; but the journey through the waves is solitary and forlorn. The only companion being one's zealous spirit and persistent determination. And it's quite enough to make one's journey a 'Buoyant Voyage'.

ConneXIEon has been a vibrant and engaging element of XIE; being accessible to the students and staff; serving as their voice of expression. It has always endeavored to reflect the values and achievements of XIE. And it is precisely this that we aim to do through this year's edition. 'Buoyant Voyage'- our theme is an ode to the resilience and indomitable spirit that is shown by each one of us in our own solitary walks of life as well as collectively during the Pandemic. It is said that many await to congratulate you at the summit-when you've achieved success; but very few show up or have faith in you during the times of struggle. Nonetheless, as a phoenix; meant to rise, one perseveres and makes it to the surface; merely due to one's own efforts, and resilience being a loyal friend. And it is this undying spirit; the never-giving up attitude that we wish to celebrate this year.

In an aim to lend those untold stories a voice and inspire others; ConneXIEon 2022 strives to be instrumental; with the theme of 'Buoyant Voyage' beautifully brought out through the English, Hindi, Marathi, and Art sections. The technical section also joins in commemorating the theme whilst also including quality



Prof. Saniya Gonsalves

research-oriented articles. The report section reflects relevant and insightful reports of activities and events in our institute; while the Alumni section offers a perfect blend of reminiscences and gratitude.

ConneXIEon especially tries to preserve a connection to the institute's vision; that is to nurture the joy of excellence in a world of high technology, each year. And aligning with the mission of the institute; to strive to match global standards in technical education by interacting with industry and continuous staff training and development of its quality of life; the magazine offers a platform to showcase a perfect blend of the artistic, technical and literary segments for the talent at XIE.

I would like to appreciate the support and guidance of the management, the teaching and non-teaching staff of XIE, the deans and the heads of the departments that aided in smooth sailing of ConneXIEon 2022's journey. Heartfelt gratitude to the students, alumni and all the contributors to the magazine for enriching this year's edition. Kudos and cheers to my fantastic crew- the ConneXIEon Committee; who anchored their best potential to make the ideas stay afloat and turn it into a fulfilling voyage!

Many thanks to everyone on being a part of ConneXIEon 2022's buoyant voyage.

Preface

It is with immense pleasure that we bring to you the 17th edition of Xavier Institute of Engineering's Annual College Magazine 'ConneXIEon' for the year 2021-22. The theme for this year's magazine is 'Buoyant Voyage'. We're all journeying through the voyage that life has set us upon. While sometimes the seas get rough, it's only our ability to adapt and improvise that keeps our ship Buoyant. This year, our magazine showcases the valour our Xavierites have displayed constantly throughout their journey which aligns exclusively with our theme.

The year of 2021 was just like it's anterior. Excitement, thrill and wonder ceased for us, as we looked forward to what the year held for us. The world attempted to seek normalcy while adapting to the tone set by the pandemic. Everything seemed to be coming together. It was the end of a decade, but the start of a new age! With hopes in our hearts and stars in our eyes, we watched it begin again. What followed though was a series of events that forever changed the way we view life. The year turned grim soon, with the rise of a new variant that caused alarm.

But, as they say, rough seas only make for stronger sailors. Despite having so many obstacles weighing us down and while the only thing consistent were the inconsistencies, our Xavierites never failed to adapt and bring in outstanding excellence constantly. Even though the pandemic remained just the same, compelling us to go about our lives adhering to various COVID protocols, the passion our Xavierites displayed remained unmatched. The year 2021-22 taught us that the only way out is to adapt to the situation and embrace the voyage that life has set us upon.

Just as, without the ship's buoyancy, it would've never seen the horizon it saw; likewise no matter how stormy it gets, our determined Buoyancy will always keep us afloat through the Voyage! It is this very perseverance and determination of us Xavierites that has fanned the flames to this profound exuberance that you're about to read in ConneXIEon 2022.

Enjoy your reading!

By,
The Editorial Team.

MEET THE TEAM



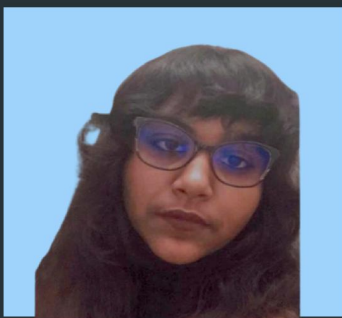
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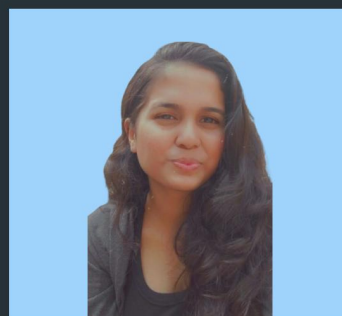
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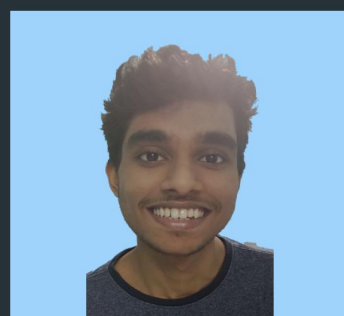
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Director's Message

“A Voyage not Bon without Buoyancy”

In the old days it was customary to say, as a farewell greeting, “Bon Voyage” (a good or happy journey). With the protocols for over a year and no likelihood of them being reduced in the near future, it is unlikely that most of us undertook long trips for holidays or social functions; we couldn't help but stay put at home. But, whether we like it or not, there is one journey we are constantly taking, the journey of life, which begins with birth and ends with death, and what we do, during the intervening period, is what really matters. And what matters is the quality of it: its enthusiasm, exhilaration, encouragement, and excitement.

I myself have been experiencing these, and the main reason for them, without doubt, is being affected by interaction, in person or online, with Students and Staff of XIE. They illustrate the character of the people of Mumbai who, despite the difficulties of these days, have not lost their joie de vivre, and not given in to sadness, anxiety, discouragement, depression, and self-pity. Our city has moved along, without losing its native instinct to reach out to others in need.



Fr. Dr. John Rose, SJ
Director

The ones of XIE whom I met personally or chatted with on the phone or Zoom or Google Meet, amazed me with their cheerfulness, and zest for online learning, though each of them yearned to get back on to the campus. There was no complaining spirit. There was no yearning for better days. They all seemed to be immersed in the tasks they had, and grateful for the online learning possible. Take, for example, the editorial work involved in getting out ConneXIEon 2022: Prof. Saniya Gonsalves, overall in charge, and Lysandra D'Souza, editor-in-chief, have had to spend much time to plan everything: come up with an overriding theme, be in constant touch with the editorial board, check on the articles sent in, get in touch with the printers, do the formatting, get the art work done—and in all this they did not have to resort to me. They were all professionally efficient and efficacious. They have all worked with a very buoyant spirit. The quality of their end product you can judge for yourself.

Wishing you all the very best,

Principal's

Message



Dr. Y.D. Venkatesh
Principal

Xavier Institute of Engineering (XIE) was established in the year 2005. It runs a four year degree course leading to Bachelor of Engineering (B.E) in the following streams: Computer Engineering, Information Technology & Electronic and Telecommunication Engineering. All the three courses are recognised by AICTE (All India Council for Technical Education), DTE Maharashtra and approved by the University of Mumbai. After satisfactorily completing all the course work requirements along with a project, the B.E. degree is conferred by the University of Mumbai.

As we unshackle the moorings of the pandemic and blaze on the path of recovery, we need to follow Government protocols and Covid Appropriate Behaviour (CAB) at all costs to ensure the safety of ourselves as well as those around us. It is a delight to mention at this stage that the institute has been successfully accredited by The National Assessment and Accreditation Council (NAAC) and now is looking forward to getting accredited by the National Board of Accreditation (NBA). This move will assess and ensure the quality of education offered to all students of XIE and keep them in pace with the rapid change in technology conversant in terms of academic and administrative performance resulting in brightening the student's prospects with an overall development.

This year's theme 'Buoyant Voyage' speaks volumes of the resilience we have relentlessly shown throughout these difficult times of the pandemic. Despite the obstacles thrown our way, the students of XIE took it upon themselves to find the silver lining thereby making the most of the situation nevertheless! The academic, co-curricular and extra-curricular activities encountered several obstacles,

but persevered nonetheless with the co-operation and the adaptability of the students and staff. Thus, exhibiting the attributes of a true warrior-Warriors who not only fight bravely against the challenges thrown their way but also learn to sail with the tide and adapt to the change; a very crucial factor in order to be a successful engineer.

The will to never back down will always take everyone a long way and the students of XIE have proven it right, time and again by making their Institute proud in various fields which they put their mind to. Students have particularly excelled in Technical fields like JAVA, Python, Ethical Hacking using Kali Linux and many more! An overwhelming number of students also participated in our College's Cultural, Sports and Technical Fests i.e., Spandan, Sparx and Transmission respectively. Alongside academics, students also have indulged themselves in various Extra Curricular Activities like the NSS, E-Cell, Alumni, Women's Development Cell, etc which widen their horizons thereby striking the perfect balance between their academics and extracurricular activities. This in turn shapes them to be capable human beings of the future.

Thus, they have always ensured that when they passionately set their mind on their goals, they not only enhance their future but also make Xavier Institute of Engineering proud.

I wish all the students of XIE great success in achieving various laurels.

Ombudsman's

CommeXIEon '22

Message

Reclaiming Our True Buoyant Nature

Our deeper true human nature remains resilient even when we are struck by adverse circumstances that attempt to overwhelm and submerge us. Indeed, somewhat like a piece of cork or a beach-ball that remains afloat when tossed to and fro by the sea, our true human nature remains buoyant even when battered by storms and calamities in life. This, obviously, is only possible when we wake up to our true nature and allow its innate capacities to unfold and flower. We can, of course, inhibit this. We can let tough situations terrify and paralyze us. If, however, we respond to these daunting situations as challenges and not as insurmountable problems, such an unfolding will take place naturally.

The current Covid – 19 pandemic has swept over us like a deadly cyclone. It has left in its wake disease, death, and desolation. It has unsettled almost every aspect of our present life – health, education, livelihood, and relationships. This disruption has not ended. It could continue, as the cliché goes, as our ‘new normal.’ In such a scenario what is absolutely essential is to keep our spirits up while we steer deftly through the

turmoil of this new reality. Reclaiming certain inherent capacities of our true nature can be the best way of doing this. Rapid changes are taking place in the world today in so many spheres of life – science, medicine, health care, technology, communications, economics, environment, etc. Changes, sometimes, come in the form of extremely stressful conditions that suddenly swamp us as the current Covid – 19 onslaught has done. In such conditions we most need to uncover a valuable innate capacity we possess, the capacity to adapt to change. This capacity can drive us to proactively and positively manage situations and conditions with creativity and innovation. In the exercise of such adaptive capacity our resilience and buoyancy naturally surge to the fore. Inability to adapt to change leads to collapse and decline. The course of evolution bears this out as also the history of societies, cultures, and individuals. Those who fail to adapt to change fall by the wayside.

When we love what we do or have a deep interest in what we do, whatever that may, we are totally present and engrossed in what we do. We experience delight and enthusiasm and scarcely notice the passage of time. The great inventor Thomas Edison worked hard for 18 long hours a day. Asked how he was able to do that, he replied, “It was not work but fun.” Obviously, he simply loved what he was doing. Such was his absorption in what he loved doing that he worked hard with amazing concentration and tenacity. He was not in the slightest discouraged by a 1000 failures before successfully inventing the light bulb. When we love to learn, love to teach, or love to engage in whatever training or work we undertake,

then we are happily immersed in the immediacy of our present engagement. Moreover, loving what we do and naturally doing it well, more efficiently prepares us for a successful future and equips us no less efficiently to face challenging circumstances in life. The most unfortunate thing that can happen to us when we face critical situations, such as the present, is that we let ourselves become self-enclosed. We concern ourselves only with our self-interests and well-being while turning a blind eye to the problems and pain of others. Actually, this contradicts our true nature which strongly impels us to go out of ourselves to help others. But, when we overcome self-concern and immerse ourselves in the lives of others by giving a helping hand, we begin to experience inner strength and a deeply grounded buoyance. It might seem an irony, but by giving ourselves to others – even beyond our means and inconveniences – and focusing less on ourselves and our hardships, our own capacity to stay afloat amid trying times receives a tremendous boost.

What can make us enduringly resilient? Not merely during present critical times but through all times. It is journeying deep within to touch the Divine Ground of our being, that Sacredness which we know by different names and yet is beyond all names. When we anchor ourselves to this unshakeable foundation – and we may do that with whatever spiritual practices our spiritual traditions prescribe: prayer, meditation, contemplation, right living – then, we draw on an inexhaustible supply of inward resilience that energizes us to navigate our way through all the challenges of our present turbulent situation.



Fr. Lancelot Prabhu, S.J.

HOD's Messages



Dear students,
'Student life' is a beautiful yet hectic part of life. People go through all kinds of struggles during this time.

Always believe in yourself. Do not focus on what you cannot do; take a look at what you are capable of. You will feel confident and learn new things along your way.

Do not give up no matter what, always try just one more time, and eventually you will be successful. Your preparation, efforts, hard work, and determination together decides your success- nothing else.

Be a good human who helps everyone. Be a good partner, a good friend, a good soul who is honest, trustworthy and responsible. Happiness will find you.

Life is all about new opportunities and the chances it has to offer. Never let go of opportunities by being afraid of taking new chances.

Always aim to be the best version of you!

~Prof. Meena Ugale



Hi reader,

You can ask one great question to yourself and answer. "What one Skill, if I developed and pursued it in an Excellent way, would have the greatest positive impact on my Career?". Every Student can use this question to shape their career and practice self-learning at each phase of their lives.

Never Stop Learning. It was previously said "लिखोगे, पढ़ोगे, तो आगे बढ़ोगे", But in today's world we need to rephrase it to "लिखे थे, पढ़ते रहेंगे तो आगे बढ़ेंगे". (Continuous Learning is the KEY).

~Dr. Saurabh Dadasaheb Patil

HOD's Messages

ComexIFon '22



Performance always comes from passion not from pressure. When it's quite impossible to change the situation, change your mind and thinking style. There is a great difference between 'Worry' and 'Concern'. A worried person only sees the problem and does nothing to solve it. A concerned person solves the problem. Hence, always be passionate. Love what you do and do what you Love. This way, Success is bound to be yours.

~Dr. Vidya Sarode



Dear Readers,

This year, named Plava (प्लव) as per the Lunar calendar means “a small shallow boat” or “Going by leaps and jumps”.

It's time that we all pat ourselves and move forward with courage and optimism. Happy reading!!

~
Dr. Madhavi Parimi

PLACEMENTS

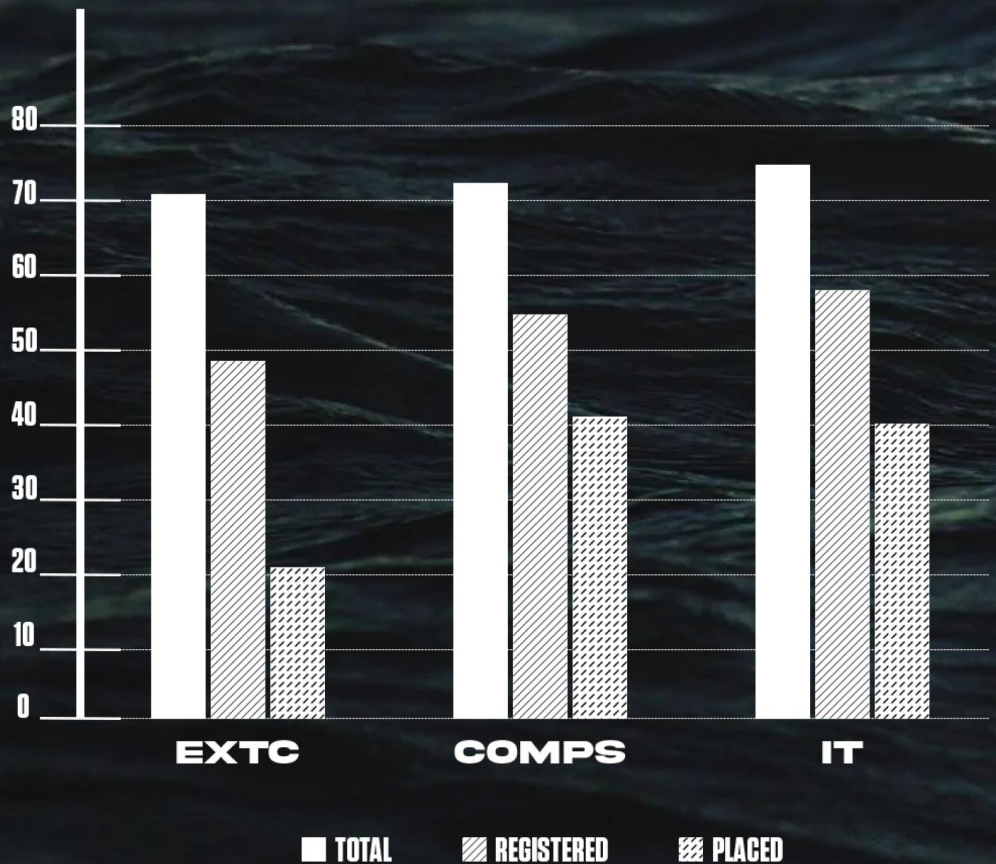
Dear Xavierites,

It's with great enthusiasm that I am presenting the placement report for the 2021-22 batch. Xavier Institute of Engineering, Mumbai witnessed one of the best placement seasons in its 16 years old history. Considering the unprecedented circumstances caused by pandemics since last year, the entire placement process was completed virtually, with everyone stepping up to this challenge.

The regular recruiters like Infosys, Capgemini, and others reinforced the faith in the quality of XIE's talent by hiring more numbers with increased pay packages. The institution strengthened its corporate relations with placements season witnessing good response from first-time recruiters like Birlilio, Mindstix, etc. The new benchmark has been set for the CTC offered. The highest offer received is 8.5LPA and the average salary of 5.5 LPA while the minimum is 4LPA.

We were able to attract a good number of companies in the first half of the placement season. About 40 companies have visited so far and 103 out of 150 eligible students have been placed and still counting.

PLACEMENT STATISTICS 2021-22



RELIANCE
Communications

**Tech
Mahindra**



IGATE
Speed.Agility.Imagination

media.net


VISTAAR
ENVISION THE POSSIBILITIES


TATA
TATA CONSULTANCY SERVICES

KPIT

Atos



Infosys[®]
Navigate your next

Rave
Technologies

 **L&T Infotech**

Justdial

ORACLE

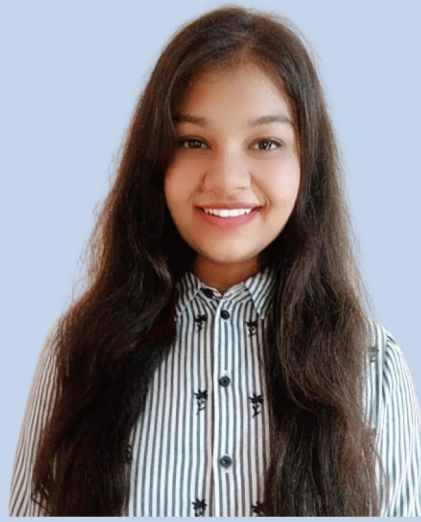
ZYCUS[™]
PROCURE PERFORMANCE

Capgemini 

bookmyshow

And many more...

Council Interview



GENERAL SECRETARY
Ms Michelle Macwan

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

I live by the quote “Leaders aren't born, they are made and they are made just like anything else, through hard work.” To be a successful leader, I believe one should choose the right action at the right time and “keep a steady eye on the ball”. It is of utmost importance to be courageous, self aware and ensure seeking consistent support of your team. I believe I possess these skills which inspired me to take up the responsibilities and become the General Secretary of Xavier Institute of Engineering.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

Being the General Secretary of XIE, I am responsible for leading the Student Council and being the bridge between the students and the higher authorities. Under my leadership I would like to take the lead on some major campaigns, strategic development, projects and events for the welfare of our institution.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRE THE MOST ABOUT YOUR PREDECESSOR?

I believe experience is the only source of knowledge and the former General Secretary Mr. Himanshu Gharat handled his duties remarkably. I admire the way he handled his responsibilities with great dedication and determination. The quality that made him an exceptional General Secretary was that he was a good listener. The way he performed his duties inspires and motivates me to carry on my responsibilities and tasks with the same commitment.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

Handling such a huge responsibility online, we have had to face many hurdles on the way. I believe that with huge power comes great responsibility and having a perfect balance between both makes you a good leader.

Some of the major hurdles that we faced was participation. Having the academic year online made it more difficult for us to establish a strong communication bond between the senior and junior batches. Organizing various events digitally also has been a tough challenge for us, as it is difficult to understand the various interests of students and implement them on an online platform. I would like to thank my team , who worked hard and stayed committed to their work which proved to be our strength to overcome all challenges that are thrown our way.



CULTURAL SECRETARY
Ms Chinmayee Patil

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

I Always believed in the holistic sense of learning where there is more to college life than the lessons learnt in classes. The notion that non-technical skills are not as important as technical skills is something I wish to eradicate. I firmly believe that both are extremely essential for an individual's overall development and growth.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

My main focus will be to increase participation in all cultural activities. I believe that every student must be given a platform to choose and excel in their interests accordingly. I also intend to introduce a few more clubs and help them to reach out to more students and grow.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRER THE MOST ABOUT YOUR PREDECESSOR?

Talking about the predecessors, not just last year but the past few years, I think I have very large shoes to fill. I admire how they had an eye for detail, because in the end it is these small details that matter. Their capacity to manage so many people, tasks and the mess-ups perfectly was admirable. Their quick decision making skills and most importantly their vision is what inspires me the most.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

Aspirations and responsibilities naturally come with a set of challenges, so far the biggest issue that we have faced is participation. The lack of one on one interaction with our fellow students make it difficult to communicate and encourage them, but when we work as a team, no problem is big enough. The efforts of the entire student council along with our core team has helped us reach out to many more students and communicate with them in a much better way.



TECHNICAL SECRETARY **Ms Divya Kulkarni**

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

Having different ideas to implement, becoming the Technical Secretary was an opportunity to put these ideas into action. The vision I set, to achieve the target for transmission is the inner motivation for me. To make students aware of the various trending technologies, enhancing technical skills to bridge the gap between the industry standards and curriculum is my focus so as to compete in real time around the world. Last but not least, opening up limitless possibilities, beyond the usual 9-5 classroom walls.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

Firstly, I would try to motivate people to explore various technologies and to do so, the best method that could be adopted is games. I'd try to implement various fun activities, as a medium of learning while also attracting an audience. Usual seminars/ webinars could be boring, except when you have your friends conducting it for you. My goal would be to ensure maximum engagement from our own students, to be creative and come up with their own ideas to put forth in front of their colleagues.

A hackathon to enlighten the competitive spirit, would be a great medium for students to learn and to compete in real time. Developing student committees for various fields in technologies is also my aim for this academic year.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRE THE MOST ABOUT YOUR PREDECESSOR?

There was a lot to learn from Baljot, he is enthusiastic about all the responsibilities he has undertaken. He was focused about his aim and clear about his goals. I learnt how to organize and manage a team while still being able to help in every way possible. Communication is a key to success and he was crystal clear about his thoughts and opinions. By creating a friendly atmosphere around, he was able to establish various fun events during virtuosic, marking a new tradition. I would love to implement a lot of ideas that originated from him.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

In case of few events, switching from online to offline, gaining the required attention and motivating people to step forward and participate in activities has been challenging, having no prior sessions of introduction and communication with peers have made the online batches become a little dull. With our continuous efforts, we are trying to build in the needed enthusiasm within the juniors. Having their valuable opinions would surely be a boon in terms of organizing the fest



SPORTS SECRETARY
Mr Sean Pereira

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

My love for sports inspired me to take up the position of Sports Secretary in the student council of Xavier Institute of Engineering. Sports and fitness are an integral part of a person's life. To be healthy physically and mentally, a person should put on a good habit of working out at least seven hours a week. It may include any physical activity such as playing a sport, going to the gym, meditation, yoga etc. All these activities help boost a person's immune system, keep their mind calm and help them focus better on their work. As engineering students we have to face a lot of obstacles daily and therefore need to be agile and focused while delivering the best solution to any engineering problem. If a student is unhealthy or has a weak mindset, it can affect their ability to work and even think straight. I believe the power of sports and extracurricular activities can help every student be in the proper state of mind and safe from any health issues.

I conclude by saying that my goal towards helping every student of XIE has been one of the main factors that motivated me to take up this position.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

My team and I have brought forward some new plans for the years 2021 and 2022. Keeping in mind the positive effects of sports, we are working on having two successful phases of Sparx this year. These phases will focus mainly on the overall physical and mental development of a student. A variety of 20 different sports have been hand-picked for these two phases with an equal number of sports for both boys and girls. Our sole focus this year is not to make students compete but to make sure every student enjoys the joy of Sparx. Having a college gymkhana where every student can come after college hours or during lunch breaks to refresh their minds by playing just a simple game of carrom or chess with their friends can be beneficial for the students. Hence, we are also planning to relaunch the college gymkhana and establish a sports club where every student can come and enjoy playing games with their friends. These are our main goals for this year. Last but not least, I am also proud of the Sparx team and its efforts towards planning and making this year a success for the sports committee.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRERD THE MOST ABOUT YOUR PREDECESSOR?

What I admired the most about my predecessor was the ability to be calm in the toughest of situations. I learned not to panic during stressful situations and that any problem can be solved with proper thinking and implementation. In the same way, I look forward to being an inspiration for my junior students that look to be a part of the council next year.

4 EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

Sports involve physical activities and hence the requirement of open space. The restrictions imposed by the ongoing Covid 19 pandemic has been a challenge for us to conduct any sports events on the college grounds. As the Sports Secretary of XIE, filling the gap between planning and implementation has been a great challenge. Also, another challenge would be to maintain the level of discipline during any sports activity that includes sorting out arguments between participants and avoiding malpractices and cheating. Overall it has been an amazing experience being the sports secretary of XIE and I look forward to facing any challenge that comes my way.





ASSISTANT GENERAL SECRETARY Ms Nyuonika Shetty

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

Getting into the student council means undertaking the responsibilities of a leader. Regardless of what position you get, other students will look up to you as a leader. You'll have new responsibilities and stand accountable for them. It's a chance to make a change since with power comes responsibilities. Running for this position gives you a chance to practice your social and communication skills at the same time.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

This year has been a rollercoaster of unexpected events. Due to the pandemic the students of junior batches barely know each other. The first idea I would like to implement is to plan events virtually/ offline with the aim of everyone interacting, such as the "Virtual Open Mic", "Virtual Talent Show", "Christmas Party", starting with Spandan,

Transmission and Sparx so that majority participation is reached. Along with this, I would like to plan and organise a community service event like the "Blood Donation Drive" etc, with workshops and seminars every alternating weekend involving every student, staff and faculty possible.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRER THE MOST ABOUT YOUR PREDECESSOR?

In addition to determining the direction of a team, our Predecessors have the power to shape what their new members see as the blueprint for leadership. The former Assistant General Secretary, Miss. Lincy Lois Brian, was the best at her job and I look up to her. She truly cared and provided feedback that genuinely helped you. She was not only great at giving advice but also a good listener, which I think as the AGS is a very important attribute. She always had time to answer a question or provide an additional set of eyes to help out.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

There are many bumps on the path of leadership. Sometimes there are roadblocks or the bridge is out entirely, but every challenge is an opportunity. The challenges faced during the initial months were the difference in opinions, trying to get maximum participation and involvement for the events we planned, challenges in communication since we met online and not across the table which I find is more effective, eventually we overcame all these challenges by addressing them as a team.



**ASSISTANT CULTURAL SECRETARY
Mr Glenn Peter Pereira**

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

Being the Head boy of my school, I have had previous experience of being in the student council . Holding a position in the council helps in developing skills like leadership, communication, teamwork, organization and public speaking. These all are very useful, not only at university level but also at career level . These factors are what pushed me to apply for the post.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

As far as new ideas are concerned, my aim is to get my batch mates acquainted with each other. Organizing ice breaker events filled with games and fun activities would help in creating that friendly bond among all students so as to capture the essence of college life.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRE THE MOST ABOUT YOUR PREDECESSOR?

I haven't really met my predecessor being a Covid batch student which is very unfortunate but as I have observed, Prathamesh and the previous student council team were very determined in organizing events even after facing many hurdles mainly due to the pandemic. The grit and enthusiasm shown by them is what I admire the most and would like to bring the same enthusiasm on the field as a team and individually as well.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

The main challenges faced by me and the council is to get active participation from the students as the events are conducted online. In order to counter this we had a lot of publicity done in each class where in we went to each class and personally contacted students to participate in larger numbers.



ASSISTANT TECHNICAL SECRETARY Mr Farhan Khan

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

“If you always do what you can do, you will never be more of yourself”. These words always inspired me to be more of myself. I always believed that being a part of the council will help me to grow as a person. To be a part of the council helped me to be more confident and improved decision making skills and these skills really helps further in life.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

Being the Assistant Technical Secretary it becomes my duty to implement new ideas in the technical section of the college. I think that other than being good at academics, an engineering student should also be good in implementing technical theory that they have learned in classes.

So I think there should be a DIY section where a student can build their own electronic project and there should be a project exhibition where the student can present and can explain their project's features.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRER THE MOST ABOUT YOUR PREDECESSOR?

So far we have not faced any pressing problems because we all are clear that the events are going to be online but for further events there will be a question that whether it will be online or offline so we have to be braced for both online as well as offline events and I am sure with the support of the team all the problems will be solved.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

The quality that I admired about my predecessor is that he is a very organized person and particular about things like he always wanted the work to be done on time and he expected the same from all team members.



**ASSISTANT SPORTS SECRETARY
Mr Gaurav Vengurlekar**

1. WHAT INSPIRED YOU TO TAKE UP THIS POSITION OF RESPONSIBILITY?

The main aim to take up this position was a strong desire to help the students of XIE by helping them in every way possible as well as develop leadership qualities. This role will expose me to new learning experiences while also emphasising the value and need of teamwork. The support from our teachers and seniors further encouraged me to apply for this post.

2. WHAT NEW IDEAS ARE YOU GOING TO IMPLEMENT THIS YEAR AND HOW WILL IT BENEFIT THE STUDENTS OF OUR COLLEGE?

This year we intend to put into action a number of new initiatives and ideas that will help students in various ways. One such initiative is the XIE Sports Club which is created on Discord server where students can participate in ESports events and various other Online Multiplayer games and tournaments. This Discord Sports Club also allows students to socialize and make new friends.

3. WHAT ARE THE QUALITIES THAT YOU ADMIRE THE MOST ABOUT YOUR PREDECESSOR?

I am really fortunate to have Mr. Sean Periera, the present Sports Secretary, as my predecessor. With his vast knowledge and experience, he flawlessly guides me through whichever problems I require assistance with. He is a fantastic leader and a dedicated athlete who is enthusiastic, extremely diligent and open with his ideas. One of his qualities which I admire the most is his willingness to encourage everyone in a team to express themselves and bring out the best in them.

4. EVEN THOUGH IT HASN'T BEEN LONG, WHAT ARE SOME OF THE CHALLENGES THAT YOU HAVE FACED SO FAR AND HOW DID YOU OVERCOME THEM?

Yes, It hasn't been that long, but challenges are an inevitable part of any activity. The most vexing problem we are facing is lack of active participation in activities and events due to the virtual system of education. It makes it difficult to organize and arrange events when there isn't complete communication and lack of willingness on every aspect. It is also quite difficult to coordinate regarding Sports activities over the internet. However, with an amazing team and with the help of admins, we will undoubtedly make the best of the situation.

Alumni Interview



Antoinette Fernandes
[Alumni EXTC 2017-20]

1. HOW DO YOU THINK THE COLLEGE PREPARED YOU FOR YOUR CAREER'S SUCCESS?

The various opportunities for me to engage and organize diverse events at XIE played a major role in preparing for the career world out there. It taught me leadership skills, public speaking & teamwork, which I now use in my professional journey. Last but not least the academic knowledge with respect to my theoretical and practical experience has had the greatest impact on me.

2. HOW IS YOUR EXPERIENCE WORKING AT ZYCUS?

In 2021, I joined Zycus, a Source to Pay software integrated suite as a Product Technical Analyst. I've gained new insights in AI and experience in how the Supply-chain Management system works. Initially, it was a very challenging journey for me because I had no idea what the supply chain system was, but through mentorship and different product-related courses within my team, I started to get a hang of my first job. I now handle a set of challenging responsibilities and guide new employees in the job within my team. Recently, I have also been involved in the testing of new releases of Zycus products. My happiest moments are when I figure out a potential problem myself.

3. WHAT LEARNINGS DO YOU TAKE AWAY FROM 3 YEARS IN XIE?

What made XIE special to me was having the liberty to express my talents by volunteering or engaging in multiple extracurricular activities (TEDxXIE, ConneXIEon, etc) and sports. Most of my learnings came through my interaction with professors, students and staff. Through this entire journey, I have learned that "Failure is an event, never a person" -Zig Ziglar.

4. YOUR ADVICE FOR YOUR JUNIORS AND THE COMING GENERATION.

Have fun! Make your family, and above all, yourself proud! I am humbled that my family got to witness me shine at XIE. Do your best every day, even if you don't feel like it. You never know who you are inspiring. Lastly, my heartfelt gratitude to the ConneXIEon team for this interview. Wish you all the best!



Maryann Bryan Fernandes
[Alumni EXTC 2015-18]

1. WHAT LEARNINGS DO YOU TAKE AWAY FROM 4 YEARS IN XIE AND HOW DO YOU THINK IT HELPED IN YOUR CAREER SUCCESS?

Right from childhood, I had always wanted to study at Xavier's to get the best education that the Jesuits provide to the world. St. Ignatius of Loyola is one of my favorite saints. My diploma education at St. Xavier's Technical Institute gave me an upper edge in my technical skills when I jumped to complete my undergraduate degree at XIE as a direct second year student. It gave me an opportunity to indulge myself in multiple extra-curricular activities while not being a bookworm. To be frank, I have never resonated with only trying to get the best grades by attending lectures and submitting assignments on time; rather I tried to balance it with my extracurriculars at XIE. To think back, I am really grateful for all the leadership and volunteering roles I was involved in, it molded me to gain self-confidence and authenticity. It was due to my involvement in trying to get the best in my academic, cultural, professional and societal values during my three years at XIE that I am motivated in my journey to manifest a career that I dreamt to achieve as a child back when I was 12 years of age.

2. WHAT OBSTACLES DID YOU FACE ON YOUR JOURNEY TO STANFORD UNIVERSITY?

Stanford University is my childhood dream school, there were multiple times where I felt I did not fit into the category of getting admitted after regularly listening to how only 'The Best' get a seat at this prestigious university. Although I do not consider myself anything close to being the best, I am still grateful for the way things have turned around for me.

To speak of my journey, the application process was very daunting and I submitted it on the last day by sacrificing my sleep since I mistook the deadline to be 7 days later. My bad luck. I was prepared for a rejection since I felt I did not give my best. But something else happened. On Fri, Feb 19, 2021, at 6 am when my youngest sister who kept monitoring all my college applications woke everyone at home to tell me that there was a letter from Stanford in my inbox. I thought this is it, my world is going to crash. But it didn't because I got accepted into Stanford University.

I felt getting admitted into Stanford was not the toughest part, rather it was the process that followed after it. Being tested COVID+ in April-May, I had to delay a lot of my work. But, above all, the biggest challenge for me was to find the money that would fund my two years master's education in a very expensive school and a very expensive city which I overcame sooner than later.

A solid shout out to God because without him I would not be here today. Also adding my family, relatives, friends, professional and academic mentors who stood beside me like a strong pillar in the year 2020-2021, making it a point that I never gave up at any phase.

3. WHAT WAS YOUR EXPERIENCE AS BEING A PART OF SAMEER?

I joined SAMEER since it resonated with my career goals. I am interested in the field of RF and Microwave Engineering. To have a career that is research oriented is what I have always wanted to pursue. I got the opportunity to report and work directly with three esteemed Scientists of India and learn from their experience. Getting to work on applications that are the need of the hour was the best satisfaction I received during my time at the Society for Applied Microwave Electronics Engineering and Research.

4. YOUR ADVICE FOR YOUR JUNIORS AND THE COMING GENERATION.

First, I would like you to ponder on this quote by St. Ignatius Loyola: "Go forth and set the world on fire."

If you have felt empowered to make your dreams a reality, I stand with you. There will always be people who will bring you down because they never took the risk to get out of their shell and hit the narrow road.

So, never ever give up! Never ever listen to anyone when they tell you that you are not good enough for anything and that you will always be a failure. Remember: They do not know the real you. It will always be you alone. You will always be the one who knows yourself the best! So, just go out and pursue your dreams; take the path you have always been most scared of because 'You are the author of your story'. You were born to be a champion, so what are you waiting for?



Franklin Puthuva
[Alumni EXTC 2011-15]

1. HOW DO YOU THINK YOUR WORK EXPERIENCE HELPED YOU TO GET WHERE YOU REACHED IN YOUR CAREER?

Fortunately, I was placed through campus and had the opportunity to work in a profile that I thoroughly enjoyed. I travelled a lot, met clients, discussed projects and technologies, negotiated deals, and executed some crucial plans. While the jobs provided a great learning experience, it also transformed my outlook towards work and what I need to achieve in the future. There is a huge gap between the education system in India and the actual requirements of the professional world. My work experience aided in filling those gaps, building the right attitude, and pushed me to constantly upgrade myself. An engineer should never stop learning and now I know why.

2. WHAT INTERESTED YOU IN PROJECT MANAGEMENT TO PURSUE MASTERS IN IT?

Every product, infrastructure, technology, establishment, or event that we see around us was once a project. How the world will think, eat, rest, grow, or change will also depend on the kind of projects being undertaken and the way it will be executed.

Being at the helm of even the smallest of such initiatives is exciting and an MS in Project Management lays a wonderful path for the same. As this is a professional course, previous exposure to projects can come in handy and as I was already involved in project/product management activities at work, transition to this profile seemed like the ideal next step in my career. Having a clear understanding about my strengths coupled with my desire to contribute towards prominent projects, motivated me to pursue a masters degree in this field.

3. HOW HAS STUDYING AT XIE HELPED YOU ACHIEVE SUCCESS IN YOUR CAREER?

XIE has this inherent atmosphere that lets you innovate and explore, provided you are willing to take efforts in that direction. I was not a bright student and found it very difficult to cope up with the curriculum, pressure of exams, viva, KT, projects etc. Yet, college gave me the platform to nurture my talents, allowed me to represent the college at numerous competitions, and conducted events. As the Cultural Secretary, the management supported me in my efforts to take our college festival (Spandan) to an inter-college level. The development in personality and confidence gained could be attributed to the risks we took as a team, connections we built, and the way we managed multiple tasks efficiently.

Despite being an EXTC engineer, I have worked in diverse fields like business development, marketing, teaching, IT customer support, hiring, product development, and project management. This was possible mainly because XIE helped me to overcome my limitations and build a career-path based on my stronger skills.

4. WHAT ADVICE WOULD YOU LIKE TO GIVE TO THE YOUNGER GENERATIONS STUDYING ENGINEERING AT XIE TO GROW BOTH PERSONALLY AND PROFESSIONALLY?

My advice is simple, “Do not restrict yourself to the course and curriculum”. As soon as you step into the professional world or even opt for higher studies, you realize that things work differently. The competition outside is stiff, but you have 4 years to prepare for it. So, whatever you do over and above your studies, matters a lot. Take up part-time jobs, look for internships, connect with individuals working in the industry, do certifications if required, be involved in events, compete with other colleges, and learn to multitask. Try to build a comprehensive profile for yourself, rather than simply achieving an engineering degree.





Bridewin Palakal
[Alumni IT 2007-10]

1. WHAT LEARNINGS DO YOU TAKE AWAY FROM 4+ YEARS IN XIE?

There are a lot of things that I have learned in the span of four years here at XIE. Although it's not everything that would be used in the current working environment, the basics learnt helped me a lot to gain more knowledge for the work I'm doing. Apart from the technical aspects XIE also provided various platforms to interact with each other and that helped develop our soft skills which is the key contribution to an engineer. As it is rightly said that 80% of our work is communication and the rest 20% is our actual technical contribution in the working environment.

2. WHAT DO YOU TAKE AWAY OR LEARN FROM BEING THE PROJECT LEAD IN A LOT OF THE SOFTWARE PROJECTS?

Getting an opportunity to lead any project is not that easy. I was blessed with this kind of opportunity from the beginning of my career itself. Mainly we learn to coordinate with various business people, meld the project as a thought process and cherish the result would be the key takeaways. Apart from this we build contacts with people and create a sense of good image in front of others that during switching a job,

we may not face scrutiny of the interview as the interviewer already knows our level of work. I had got this kind of an opportunity in a few organizations.

3. HOW WERE YOU ABLE TO LEARN SO MANY PROGRAMMING LANGUAGES AND HOW IS YOUR EXPERIENCE WORKING AS A SENIOR SOFTWARE ENGINEER AND A MANAGER?

The quality that we developed during engineering days and the necessity around us created the right environment to learn multiple programming languages and to use them in the right project from C to Python. I was recruited to a company from our campus itself in the year 2010 as a Software Developer and I'm thankful to our college XIE and specially to our then placement team for providing me with the opportunity. It's been more than 11+ years I've been working in the I.T. industry and handling various roles. Our college's name helped to invoke a quality of trust in the working organisations. It is wonderful to learn new things on a daily basis, contribute in every project and guide teammates to be an excellent player. In short it has been a great experience till now as a Senior Software Engineer or as a Software Lead or as a Manager. I'm sincerely thankful to all the professors who have nurtured me.

4. YOUR ADVICE FOR YOUR JUNIORS AND THE COMING GENERATION.

Be open to learning new things and be understanding of the environment and situation as we all are either going through or overcoming a pandemic situation. There are no books that would guide us to use all the opportunities that life gives, so use opportunities carefully. Don't forget to rejuvenate yourself occasionally. Most importantly in the industry never back out while facing any situation either contribute or learn from it. Finally, be thankful to your teachers and your managers wherever it is possible.

Reports



Reporter
Sharon Sebastian



Reporter
Diogo D'costa



Reporter
Rickin Joseph

All good reporting is the same thing— the best attainable version of the truth





The pandemic required us to stay isolated, but the virtual world still allowed us to connect with each other online and share our ideas and perspectives and as TED is such a platform, the sixth edition of TEDxXIE was no different.



Aastha Kacha



Abhinav Agrawal



Alex Abrose



Konkana Bakshi



Pawni Pandey



Vijay Vikram Singh



The theme for this year's event was "IDEAS Worth Spreading" and was held on March 6, 2021 online on the Airmeeet platform. The organiser and co-organiser for this year's edition were Mr. Tanay Modi and Mr. Kshitij Tapre under the guidance of Prof. Suvarna Arango. This year's speakers celebrated personalities from different walks of life and shared their take on a variety of topics ranging from product design to etiquette. They included - Mr. Vijay Vikram Singh an actor and voice-over artist, Ms. Aastha Kacha an architectural concept developer,

Mr. Abhinav Agrawal a product designer, Ms. Konkana Bakshi [Ex Miss Elegance World] a grooming and etiquette expert. Mr. Alex Ambrose a Former International Footballer, AFC License Coach & Ms. Pawni Pandey an Indian Playback Singer. This TEDxXIE event proved to be an insightful and amazing learning experience for all the attendees.

Speakers

Vijay Vikram Singh

Alex Ambrose

Pawni Pandey

Aastha Kacha

Abhinav Konkani



The Department of Transfusion Medicine of KEM Hospital had arranged a voluntary Blood Donation Camp in association with Rotary Club at CSMT Railway Station on 22 September 2021, from 9.30 AM to 6.00 PM with the help of 22 NSS volunteers of Xavier Institute of Engineering, Mahim. With 6 volunteers at desk duty to fill in the entries and certificates of the people who were coming in to donate blood, the rest were out on the platforms of CSMT Railway

Station with placards to give information and request and convince people to contribute towards this noble cause. Announcements were also made using encouraging slogans in Hindi, Marathi, and English languages. Haemoglobin level and Blood pressure of donors were checked by medical officials of KEM Hospital before donating the blood. Some of the volunteers & NSS-PO also contributed to the cause by donating their blood too. The camp came to an end with a total of 79 units of blood collected.

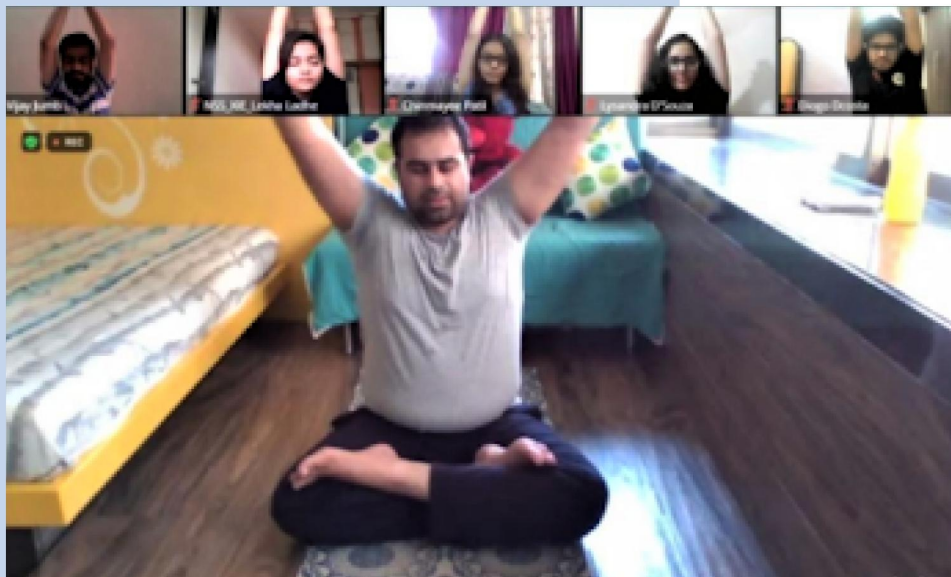


‘Breast Cancer Awareness’

The NSS Unit of Xavier Institute of Engineering, Mahim in association with Free Pads for India organised a national level webinar on ‘Breast Cancer Awareness’ on 20 October 2021. For this session, the panellist was Dr. Anjali Talwalkar who is regarded as one of the top gynaecologists in Mumbai. During the seminar the panellist addressed the audience about breast cancer, tell-tale signs, and cancer prevention by using accurate techniques like colposcopy.



Dr Talwalkar also shed light on the holistic and modern treatments she uses in her clinic and the benefits they provide, while also educating us on the intricacies of having a disease like cancer. It was a very insightful and knowledgeable session on a topic to spread awareness especially in these trying times and all volunteers took back a lot of knowledge on identifying the minor symptoms of breast cancer and the various routes of help/counselling they can take while also learning to support those who go through it.



International Yoga Day

Yoga means union, union of our hearts, mind, body, and spirit. It unites us and the people around us. The NSS Unit of Xavier Institute of Engineering organized a webinar to celebrate the auspicious occasion of 7th International Yoga Day on 21st June 2021. The Guest Speaker was Mr. Pankaj Changlani (from THE ART OF LIVING Organization), who is a government certified yoga instructor. The Director Fr. Dr. John Rose, S.J & Principal Sir Dr. Y. D. Venkatesh enlightened the participants about the importance of Yoga in an individual's life. The speaker took on the spotlight by sharing the importance of yoga in everyone's day to day life and made it an interactive session by engaging everyone in a few yoga practices. He taught everyone about the different chakra points and the 5 ways to purify them,



he also focused on the Muladhara Chakra and engaged the students in a few more yoga asanas that can relax their bodies and purify them. This was followed by playing 2 videos of Sri Sri Ravi Shankar that helped the participants to take a deeper look into meditation and understand its benefits currently and in the future too. It was a very relaxing, interactive as well as informative session. The vote of thanks was given by Prof. Vijay Jumb and along with that the Online Celebration of the International Yoga Day came to an end.

DECODING DIET

On Friday 28th August 2020 the NSS Unit of Xavier Institute of Engineering organized a national level webinar on “Decoding Diet”. The speaker was Dr. Sharayu Rajwade who is a homoeopath, cosmetologist, and wellness consultant from Mumbai. The student volunteers welcomed Dr. Sharayu and gave a small introduction about her to all the participants which included NSS as well as non-NSS students from various colleges, staff members and other well-wishers. The main motive behind organizing this webinar was to create awareness about nutritional and balanced diet. Due to lockdown many people were not following any standard diet pattern which had affected metabolism and health. Dr Rajwade explained the importance of a balanced and healthy diet and encouraged all to include different types of food in their daily diet.



She explained that carbohydrates, proteins, fats, vitamins, minerals and water should be included in the daily meal. She also talked about hunger, appetite, minimum energy requirement, rainbow diet and more. She further explained that the key to a fit body is not only a balanced diet but also other physical activities like exercising, dancing, etc. At the end, a question-answer session was arranged in which Dr Sharayu solved doubts related to keto diet, vegetarian v/s non-vegetarian meal, and dieting, best time slots for meals, junk food and cheat day. The session ended with a vote of thanks by Prof. Vijay Jumb.



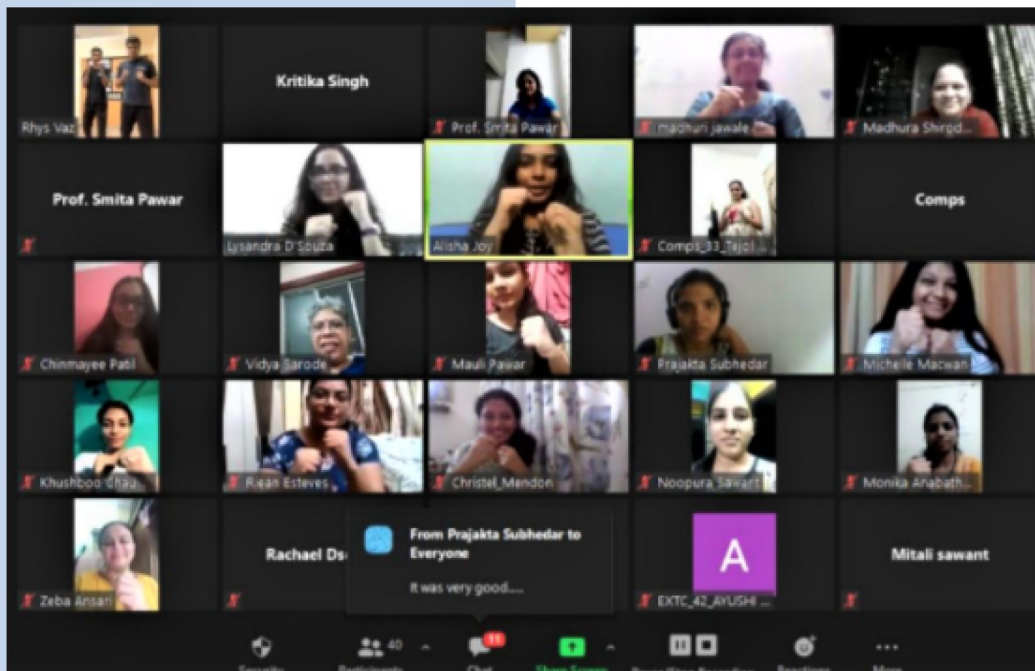
‘Art Therapy’

Evening of 30th August starting with a very therapeutic, exciting, and soothing Webinar, conducted by Ms. Aakriti Khosla, a counseling Psychologist, mental health speaker, National executive trainer in Art therapy, Mandala Art therapy Practitioner and an EFT Practitioner. All participants enjoyed the process of creating a mandala during the webinar. The session also had a calm, meditating break, rather a musical therapy, which really helped the participants soothe their minds. The instructor told the participants about the various ways one can perform this soothing task, encouraging everyone with wonderful designs that one could use in their mandala and kept the session very interactive. The session was very immersive and stress relieving for everyone who participated.



SSN

WOMEN'S DEVELOPMENT CELL



Self Defense Workshop

XIE WDC organized a self defense workshop. The workshop was conducted by our alumni Mr. Rhys Vaz who is a Lead Trainer of Krav Maga Global Classes which are all over India and Has Trained Over 15000 People in India. The event was hosted by PROF. Madhura Shirodkar ma'am and started with a mesmerizing prayer followed by wise words of Fr. Dr. John Rose and Dr. YD Venkatesh sir. The event was followed by a session of basic self defense techniques which helped us to understand how to protect ourselves in various situations. The event not only helped us to get an insight about how we can protect ourselves from gruesome situations but it also gave us an idea about Krav Maga which is a military self-defense and fighting system developed

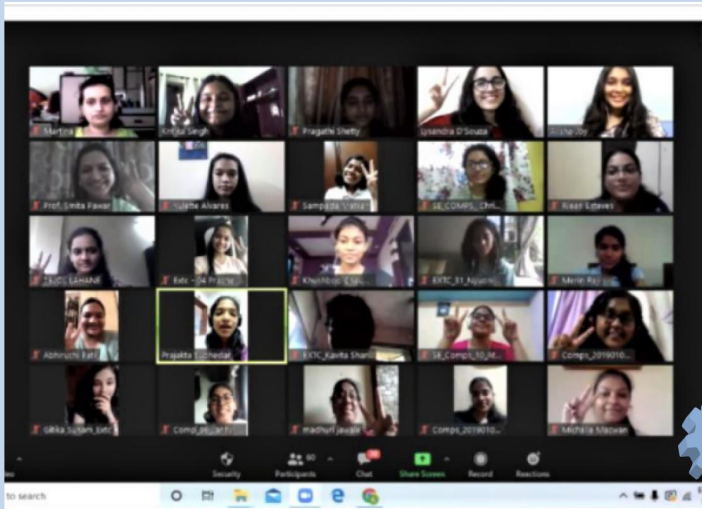
for the Israel Defense Forces and Israeli security forces derived from a combination of techniques sourced from aikido, boxing, wrestling, judo, and karate. Krav Maga is known for its focus on real world situations and its extreme efficiency.



WDC Talent Show

The student members with the guidance of our faculty members decided the first event of WDC, the TALENT SHOW- which would revolve around promoting and nurturing talent within our college. Our targeting audiences were girls of FE, SE, and TE. The event was inaugurated by the inspiring words of Fr. Dr. John Rose and Dr. YD Venkatesh sir. The event was hosted by Prof Martina D'Souza ma'am, Alisha Joy and Lysandra D'Souza.

The event proceeded with display of various talents of students of our college like cooking, dancing, singing, poetry and sketching followed by some light hearted games which were enjoyed by students and teachers. The goal of the event was to have a session where we could achieve appreciation for budding talents of our college and to enjoy some time away from academic stress.

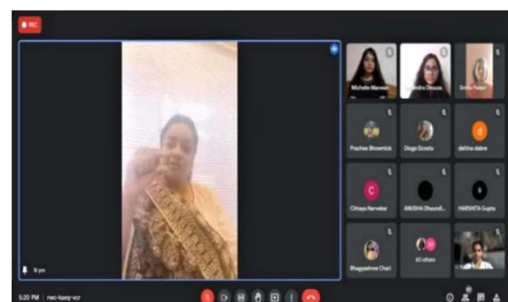




Legal Awareness Webinar

This Webinar was arranged in collaboration with PIYA (Participation & Involvement of Youth in Action) and YWCA (Young Women's Christian Association of Bombay) which is an international women's volunteer movement, working for the empowerment of women at all levels. They organize various outreach programs for children, youth, women, and the public to bring about social and economic change. The speaker was Advocate Nausheen Yousuf who is the Founder-Partner at TKNY ADVOCATES and TKNY LEGAL RESERVOIR. She has a rich experience of 15 years dealing in cases pertaining to Matrimonial Litigation, Domestic Violence, Muslim Law, etc. She represents litigants in Family Courts, District Courts, Magistrates Courts, Sessions Court across Mumbai, Thane, Navi-Mumbai.

She also takes up cases at the High Court at its Original and Appellate Jurisdiction. She has been conducting trainings for the State and Non-State Stake Holders under the Domestic Violence Act and Muslim Women Act across Maharashtra. At present, she is a mentor and a consultant to a team of lawyers at Lucknow and Ranchi. She is a member of WICCI Maharashtra. She is also an external committee member under the Sexual Harassment at Workplace Act. The Director, Fr. Dr. John Rose SJ was present for the event and addressed the participants. Convener, WDC Prof. Smita Pawar thanked Ms. Deltina from YWCA and everyone for their presence, asking questions and getting doubts solved.



Women's Day Celebration

The International Women's Day is celebrated in the Institute every year. This time the celebration was planned online. The Director, Fr. Dr. John Rose SJ was present for the event and addressed the attendees and following his idea WDC continued to give away the awards, In the following categories:

1. Woman of intelligence (1000/- cash + certificate)
2. Woman of creativity (1000/- cash + certificate)
3. Best all-rounder girl student from final year (15000/- cash + certificate)

XIE-WDC also announced an Online Poster Competition and Poetry / Essay competition on 'Women in science and Technology' for all girl students of FE to BE from all the branches with the winners announced on 8th March 2021.



1. Winners of poster competition (500/- cash + certificate)
2. Winners of poetry / Essay competition (500/- cash + certificate)

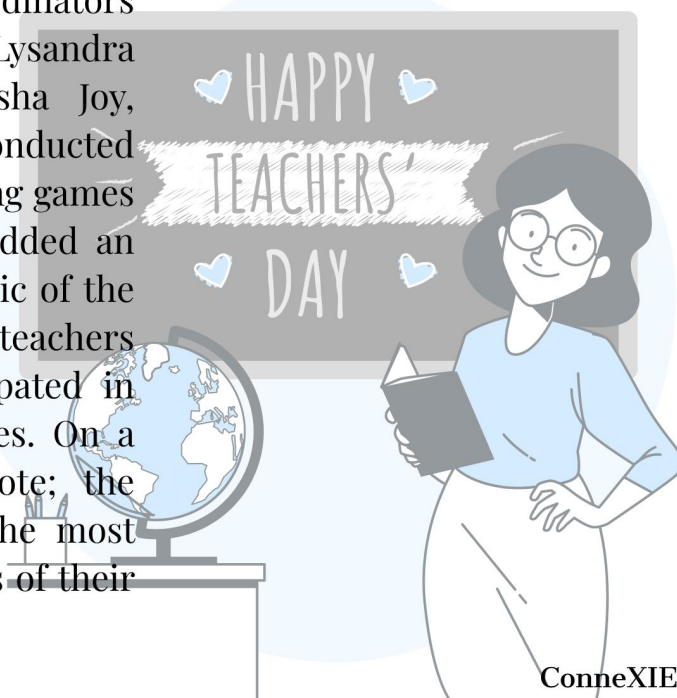
The chief guest for the event was Ms. Ninette Lobo who is Director of the Archdiocese of Mumbai Human Life Committee and has represented the Archdiocese internationally. Principal Dr. Y.D Venkatesh shared his views on the day of the occasion. The Dean, Staff and Students' Welfare Prof. Meena Ugale announced the names of the winners and congratulated them.

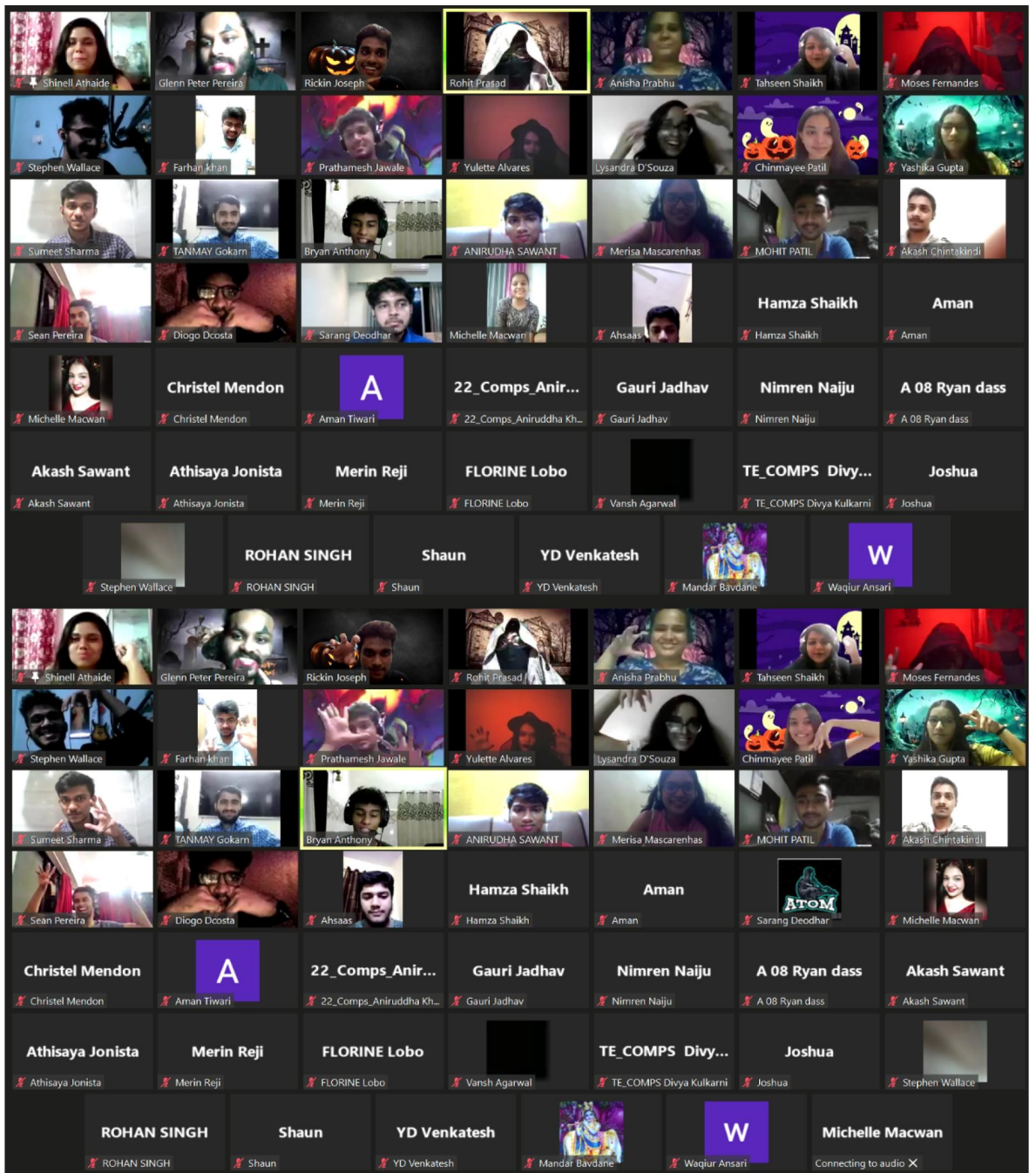


Teacher's Day Celebration

The ConneXIEon Committee 2021-22 organized a virtual Teacher's Day program on 05th September. The teaching and non-teaching staff of XIE were invited for the same. The event was hosted by students, Ms. Sharon Sebastian and Mr. Rickin Joseph. Thereafter, the Principal, Dr. Y.D. Venkatesh addressed the attendees and emphasized on the significance of the day. It was followed by a speech by Director, Fr. Dr. John Rose SJ who highlighted the sacrifices and contributions made by teachers through personal experiences and anecdotes. Ms. Khushboo Chaudhary TE-IT recited a self-written poem and added a literary embellishment to the program. Student coordinators for the event; Ms. Lysandra D'Souza and Ms. Alisha Joy, along with the hosts, conducted various fun and engaging games for the teachers and added an element of fun and frolic of the program. All the teachers enthusiastically participated in the games and activities. On a reflective yet lively note; the teachers also shared the most memorable experiences of their teaching life.

A video introducing the theme of ConneXIEon 2022 was shown by Ms. Lysandra D'Souza, the Editor in Chief of ConneXIEon 2022 shed some light on it and revealed the theme; "Buoyant Voyage". Prof. Saniya Gonsalves, the Head Curator of ConneXIEon also urged the teachers to send their literary contributions to the Magazine. The ConneXIEon team put together a gratitude video for the teachers; which was shown during the program. A teachers' day video prepared by NSS was also shared. The videos were well appreciated. The program concluded with a vote of thanks by Ms. Alisha Alappat followed by a white-board memento signing to add to the cheer and a group picture. The teachers thanked the organizers of the event and the event ended on a positive note.





OPEN MIC'21



The Student Council of XIE and the ConneXIEon 2022 had organized an Open Mic Event on 16th October 2021 on the Zoom Platform. The event was officially Streamed live on YouTube for the first time from XIE's recently created YouTube Channel. More than 70 students participated in the event. The event was hosted by Mr. Glenn Pereira and Mr. Rickin Joseph. The theme of the event was based on Halloween. The organizers and the participants were dressed according to the theme of the event. The event commenced with a short introduction, many students from SE and TE performed for the same. The categories were as follows: singing, instrumentals, storytelling, monologue, poetry, and comedy. We saw a few duets and spot performances as well. The event concluded with a vote of thanks and some exciting games for the SEs.



INTERFAITH

All over the world, the human population is divided based on religion. There are a large number of religions practiced universally and people from each one consider someone from another religion as different from him or her. But if we look at it closely, we realize that we all fall under the category of human beings; that we all have the same flesh and bones; that we all feel happy and sad at the same things. God's love supersedes all religions and it is the core of all religions. — Riaz Ahmed



Gohar Shahi

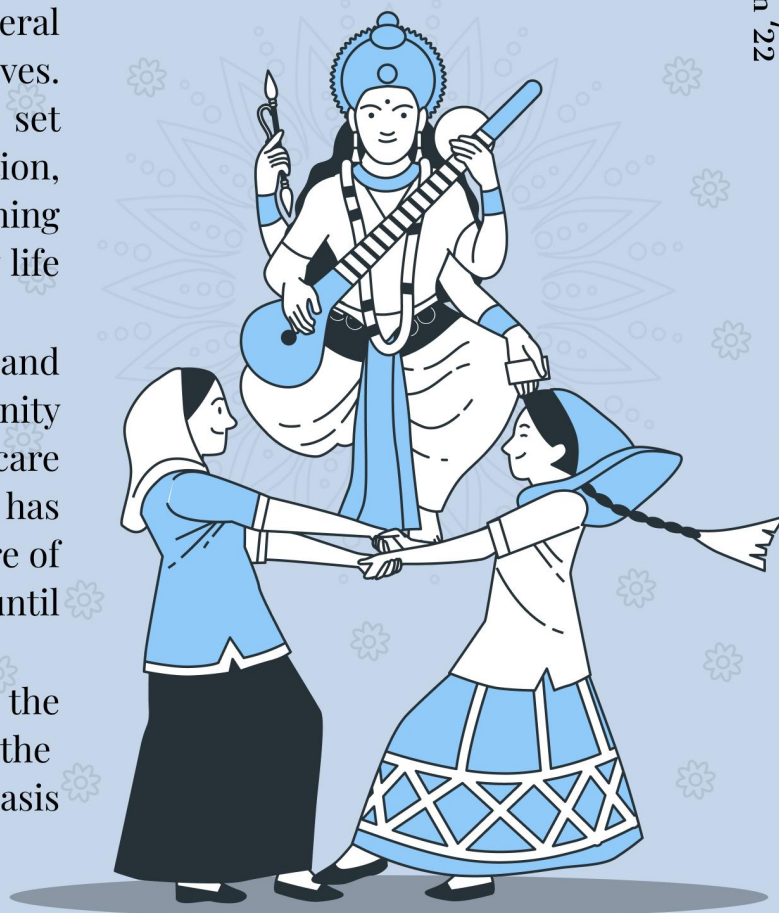
The Interfaith Committee inspires, educates, mobilizes people to unite across differences and plans events/activities that encourage understanding and respect among people of all religions, traditions, cultures, and philosophies. The committee comprises staff belonging to different religious faiths. Committee members promote positive, meaningful relationships across differences to build community and contribute to a more accepting campus environment and more a peaceful world.



The COVID-19 pandemic is the first of its kind that doctors have encountered in their clinical practice, offering several challenges in all aspects of their lives. Healthcare professionals face a unique set of obstacles that require special attention, many have also experienced a silver lining amidst this chaos in the form of family life and lifestyle changes.

COVID-19 has given us great grief and trauma, but also presents an opportunity to reset our outlook, whether in healthcare or climate change. The pandemic has demonstrated the interconnected nature of our world – and that no one is safe until everyone is safe.

Henri Nouwen quotes “Prayer is the beginning and the end, the source and the fruit, the core and the content, the basis and the goal of all peacemaking.”



During the pandemic, Interfaith committee organized prayer meeting for Staff Students of XIE wherein family members of every Xavierite was invited to participate in prayer through online mode. Prayers in different faith, & in multi-linguistic forms were offered by students of XIE and staff along with their children. Interfaith committee organized an event to appreciate its students for achieving outstanding performance in academics during these hard times of pandemic. Life is a beautiful gift given by God to us. Life is a journey not a destination. It needs to be lived with peace and happiness. Appreciate the nice things around you and realize that everything has a purpose, everyone’s life has ups and downs but it’s still beautiful at the end of the day!

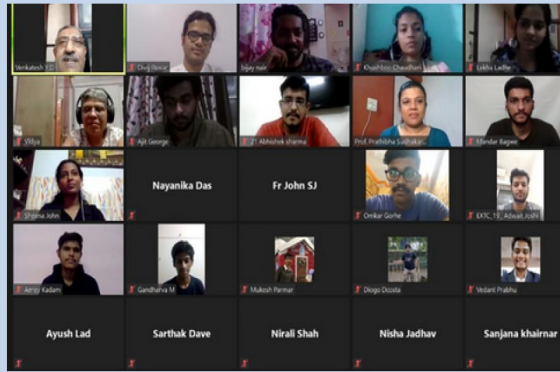


17/11/2020

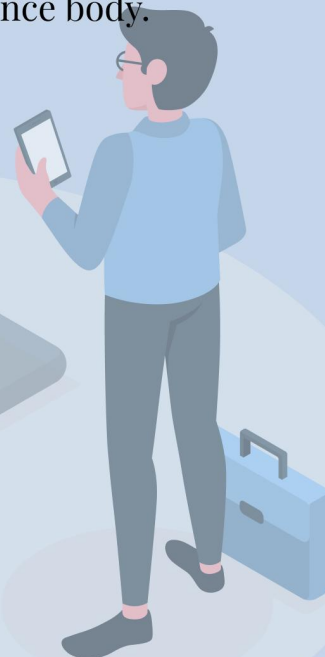
Engineers In Defense

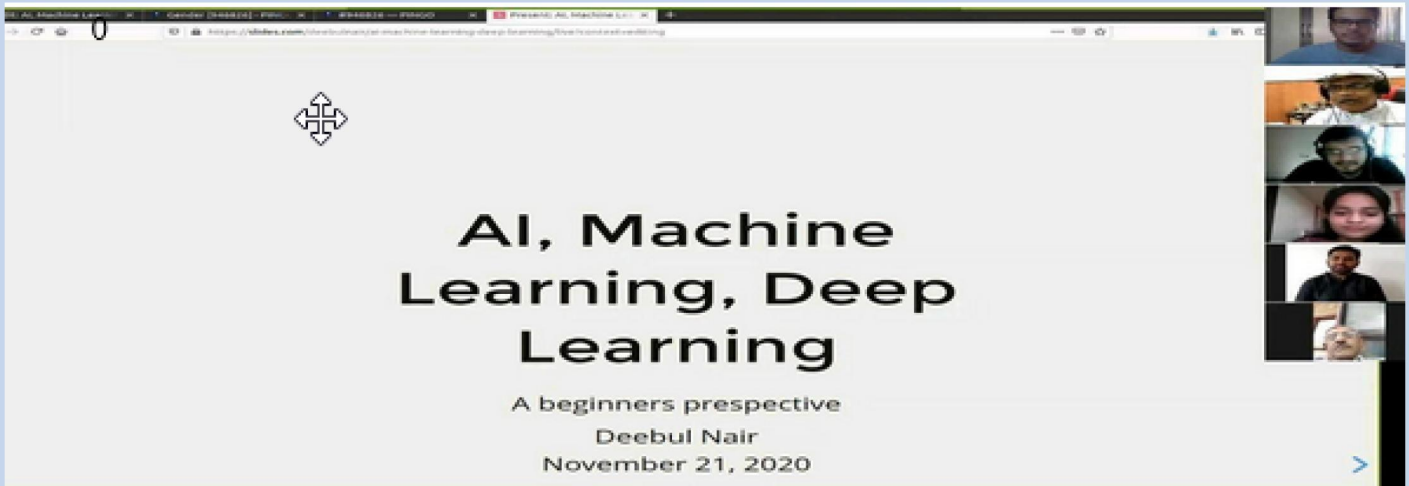
For the event conducted on 7 November, 2020 The speaker for this event was Lt. Cdr. Bijay Nair, a decorated Indian Naval Officer and a war veteran.

After starting the webinar with a quote, “Experience is the Experience of Experiencing the Experience”, he shared his story about his journey from a normal ten-year-old child to a Lieutenant to an Author. In his 10 years of Navy, as a Naval Officer Lt Cdr. Bijay Nair was a part of many key Navy operations. In 2003-2004, he received many awards from the Flag Officer Commanding in Chief. Later in 2006, he was the Chief of Naval Staff. He did his specialization in Missiles and Weapon Control. After retiring from the Navy, he went back to the basic exercise of the Armed Force. He ran in 14 countries and is a veteran of 06 Ultras; 18 FMs; 120 plus Half Marathons; many 10kms. In 2019 he was a part of Indian Comrades Team and finished the grueling 87kms Up Run in 11:48 hrs.



As an entrepreneur, he always liked to take risks in life and believed in sharing his knowledge through his blogs and motivational talk and then shifted his focus to writing. He has written 3 books, #Theyinspire, Locked in Tales, B.H.A.G.H. He loves introducing careers in the defense forces to school and college kids. A soldier's life is full of risk and so is an Entrepreneur who is about to start a business career. He is now an Associate Vice President and leads the National Importance and Prestigious Compliance body.

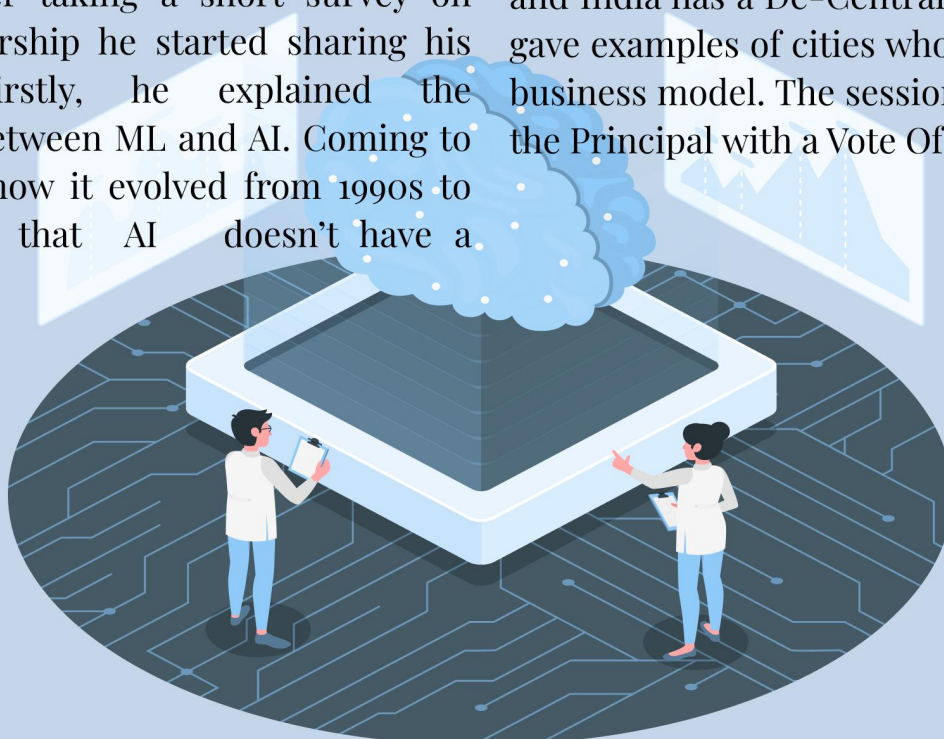




21/11/2020

For the 21 November event conducted, The speaker of the event was Mr. Debul Nair who completed his Bachelors in Electronics and Telecommunication Engineering from XIE and his Masters in Machine Learning, Robotics and Automation Engineering from the Bonn-Rhein-Seig University of Applied Science from Germany and is now currently a Technical Team Lead for b-it-bots in Autonomous System group. The event started with the introduction of the speaker from our Director and also about the potential of AI, ML and DL in today's market. After taking a short survey on Entrepreneurship he started sharing his journey. Firstly, he explained the difference between ML and AI. Coming to AI, he said how it evolved from 1990s to 2020 and that AI doesn't have a generic

human intelligence but has a specific small subset of it. Then he explained how AI is helpful and so many startups are making profit through it. For Machine Learning, he said that we need to know both input and output which is called Data. The output is expected to be a code and we should use this code in coordination with AI for the desired output. Further he explained a subset of Machine Learning which is Deep Learning. The working of DL is as same as ML. But in DL there is no Feature Engineering there is direct code. He later said, "India is already a startup nation." and India has a De-Centralized model. He gave examples of cities who have excellent business model. The session was ended by the Principal with a Vote Of Thanks.



27/10/2020

Engineers in Automotive Industry

The speaker of this event was Mr. Sampat Acharya who completed his Bachelors in Electronics and Telecommunication from Xavier Institute of Engineering. He has more than 3 years of experience in Automotive Industry, and is currently working in Elect Ray Technologies, Pune as an Automotive Embedded Software Engineer and has also worked in American

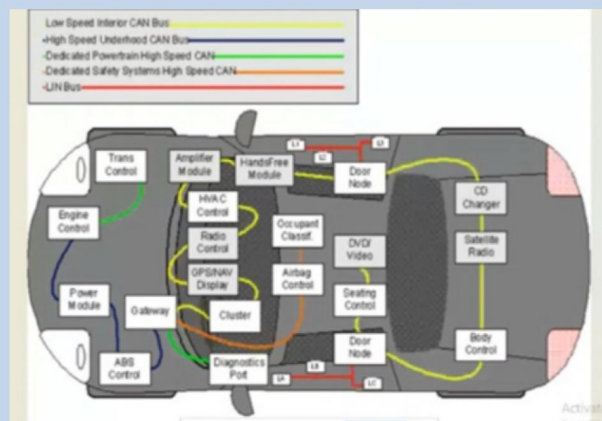
and what all mechanical, network and electronic systems present in a car. He later explained about the working of Electronic Control Unit, Anti Breaking System, Driveline Systems and Electric Vehicles as the future of automobiles. The speaker also showed the simulations of each system and also told the students to think out of the box. The session ended with a vote of thanks from teachers and students.



Axle as well as Porsche Global.

The event started with the introduction of the speaker by the Director and the Principal. After the introduction, the speaker started sharing his 6-year journey. While giving an overview of Automotive Industry, Mr. Acharya also gave a basic idea on how different parts of a car are combined together at an assembly point

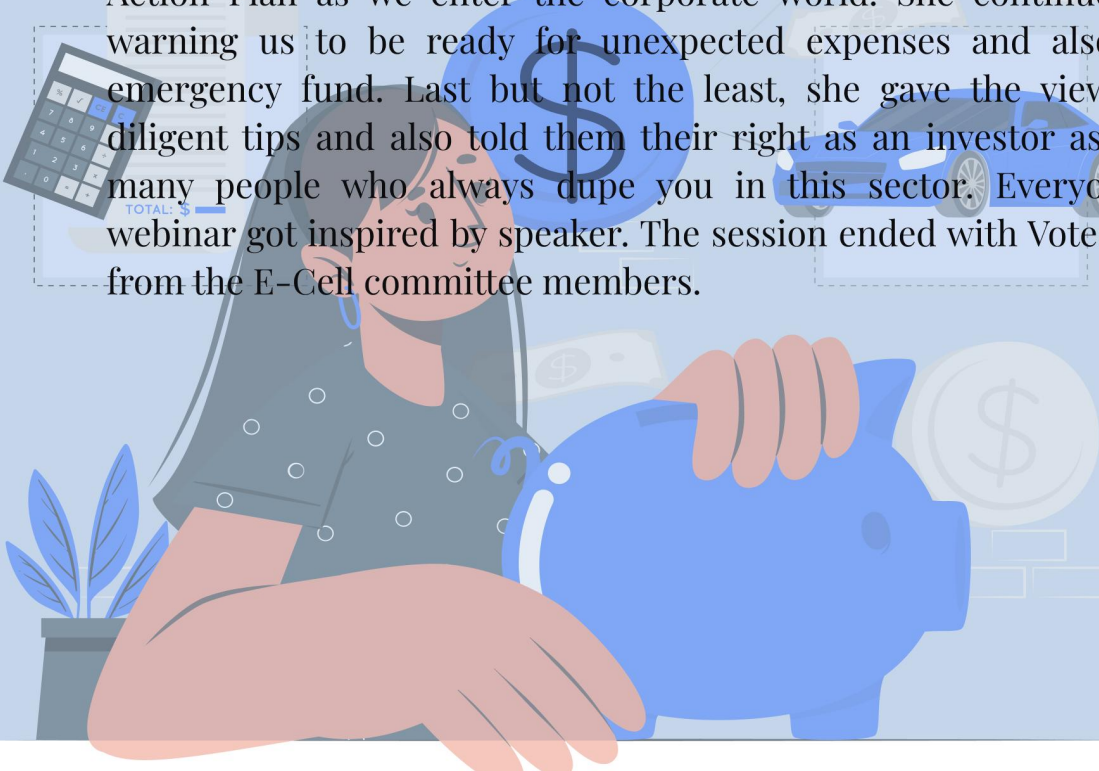
At the end, the speaker even answered some general questions about the automobile industry and also told that it is evolving in a completely different way. Then he also said that other than Mechanical Engineers, there is also a lot of scope for Computer, IT and EXTC students in this industry. This session was very beneficial for the audience.





01/05/2021

The speaker for the event was Ms. Nidhi Kothari, a Chartered Accountant with 14 years of experience in the Banking and Finance industry. Nidhi has also completed NISM XA, XB, VA, XII certification and is an experienced trainer at HerMoneyTalks. The speaker explained her point of view by asking some questions to make the session interactive. She further exclaimed, 'A rupee today is more valuable than a rupee tomorrow!' She further suggested everyone to find money investing opportunities even though the amount is small and gave an inspiring example of Warren Buffett to prove her point and also shared a formula of Budgeting which is: "First earn, then invest and spend at last". Then the speaker explained the students on Investing Options which were, Bank Deposits, Post Office Saving Schemes, Corporate Bond, Equity Shares, Equity Mutual Funds and Debt Mutual Funds. Later she introduced everyone to basics of Stock Market and then started explaining each option to the students. She also shared her 9-Point Action Plan as we enter the corporate world. She continued this by warning us to be ready for unexpected expenses and also have an emergency fund. Last but not the least, she gave the viewers some diligent tips and also told them their right as an investor as there are many people who always dupe you in this sector. Everyone at the webinar got inspired by speaker. The session ended with Vote of Thanks from the E-Cell committee members.



07/08/2021

Choosing a career path while pursuing Engineering

The speaker for the event was Ms. Heena Mansuri, the founder of Diamond Mine Consulting, Business Consultant, Researcher, Motivator & Advisor who completed her Bachelors of Technology in Aerospace Engineering. Currently, she works as a Quality Assurance Engineer and a Consultant by profession. First the speaker asked the students if they had thought about their career paths following their graduation, after which she exhorted them to identify their path and explore the various choices available to them and also to figure out what they like and work on it. After identifying their interests, she first advised them to reach out to various people in the fields of their interest and get some details about that specific field. She also told them to be cautious and selective while absorbing the information. Following this she said that they should define their personal purpose, vision and missions, and to align their actions with the above. She also asked the students to engage themselves in extra-curricular activities as well. Furthermore, the speaker encouraged the students to make good friends and to expand their network and also encouraged them to connect with various people and to make ambitious projects. Then she also advised them to create a plan for their vision and two backup plans as well. The speaker then went on to give a list of various opportunities such as Entrepreneurship, Reading, Writing, R & D, Business, Teaching and Employment and also explained each part very well.

To conclude the session, the speaker shared various platforms where the students could contact her. The speaker for the event was Mr. Hussain Nagavadria, a professor at Skillvertex and a developer with an entrepreneurial mindset and who is highly enthusiastic about developing Android applications. The speaker with the help of a small story about Warren Buffet demonstrated how one single meeting with a wise person is always beneficial for us. Following this, he asked a general question and then spoke about a typical day in a student's life during the lockdown. He elaborated more on interesting and trending technologies such as Blockchain, AI/ML, Data Science, etc. and emphasized the importance of cross-platform compatibility and said that many start-ups and companies want an employee who is flexible with all this and can do many jobs simultaneously. The speaker then talked about the ever-growing requirement for Flutter, React Native development and Kotlin and how far it has outgrown JAVA's relevance in today's industry. The speaker stated that it would be beneficial to learn Kotlin and JetPack Compose if one is interested in app development and encouraged students to focus on DSA, R and Python Programming. He advised them to take up competitive programming and also talked about the importance of making projects and building a good resume. He later shared stories from his previous startups and gave tips on how to avoid the mistakes he made and how a proper mindset can go a long way. He then talked about four assets which have always given him good returns, namely skills, values, body (health) and mindset.

INDEPENDENCE DAY



Independence Day is a festival of freedom for us, made possible by generations of freedom fighters; some known, many unknown. To celebrate the 75th Independence Day, the volunteers of the NSS unit of Xavier Institute of Engineering conducted an event which commenced at 9 am. The honorable chief guest for the event was Fr. Dr. Anthony J D'Souza. The event was hosted by Ms. Lysandra D'Souza. It started with a patriotic prayer sung by Ms. Khushboo Chaudhari which was preceded by the Unfurling of the National Flag and the National Anthem. It was followed by the

dignitaries and the student's speeches and the pledge which everyone took. To make the event more memorable and understand the various perspectives as to why Independence Day is important and what each one can do for their country, a speech competition was also conducted among the students in which around 20 people from SE and TE participated. The winner of the competition was Ms. Khushboo Chaudhari from TE-IT.



"हे राष्ट्र देवतांचे, हे राष्ट्र प्रेषितांचे आ चंद्र सूर्य नांदो स्वातंत्र भारताचे"

Best Speech of Independence Day

नमस्कार ! मी खुशबू चौधरी.

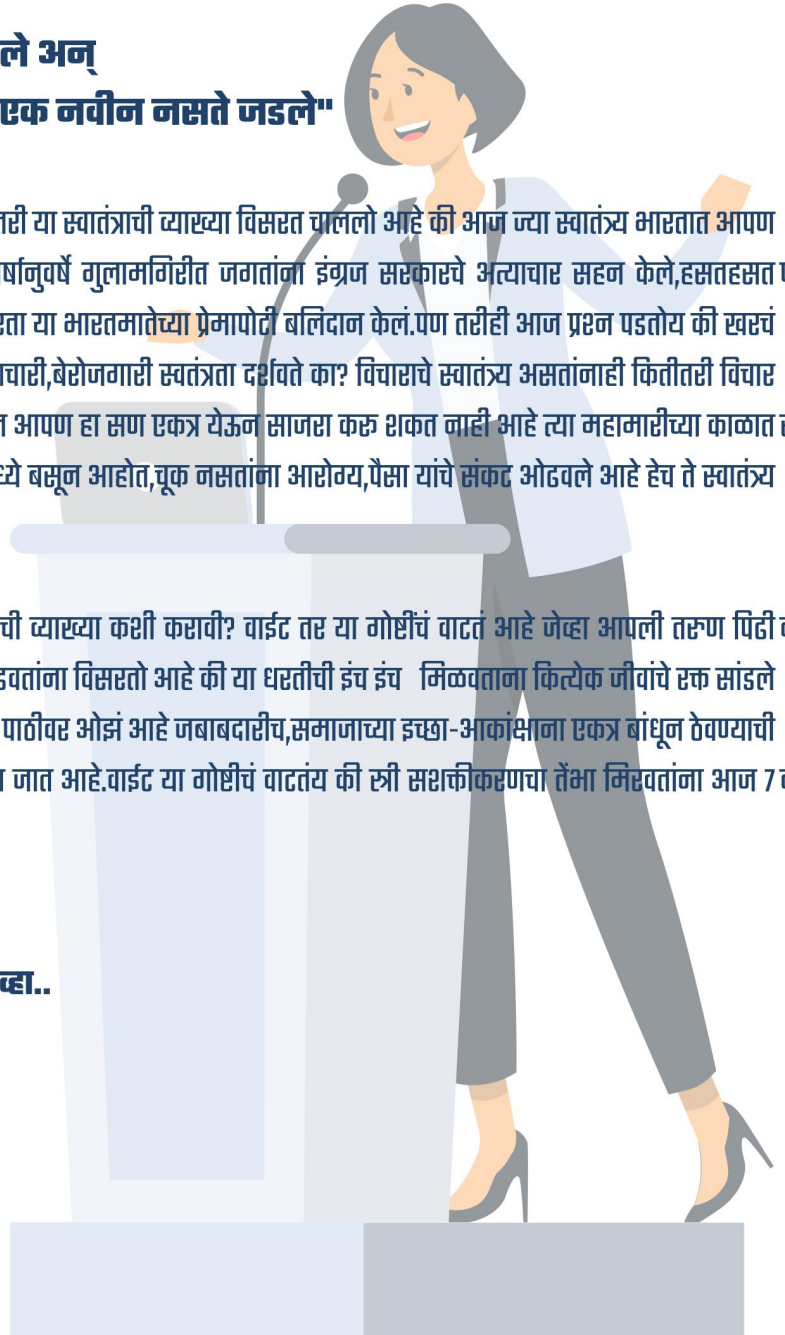
सर्वप्रथम सर्वांना स्वातंत्रदिनाच्या हार्दिक शुभेच्छा. खरंतर या दिवसाचं महत्त्व तुम्हाआम्हाला सांगण्याची गरज नाही.कारण आपल्या वावण्यावर, मुक्त विचार प्रकट करण्यावर स्वातंत्र्याचा हक्क आहे. जसं की आपणासर्वांना माहिती आहे अगदी 150वर्षे इंग्रजांच्या गुलामगिरीच्या कचाट्यात सापडलेले भारतीय.ना कसली मुभा..ना कसली सोय..माणुसकीला जणू काळीमा फासलेले ते दिवस.अशातच कितीतरी क्रांतिकारी विचारांचा उगम झाला.जो तो आपापल्या परीने हे बंधन झुगारून लावण्याचा प्रयत्न करू लागला. काहींनी शस्त्रांचा पुरेपूर वापर केला, तर काहींनी शांततेला प्रबळ शस्त्र बनवलं. पारतंत्र्याच्या या तप्त आगीत कितीतरी त्रास सहन करून वि.दा.सावरकर, सुभाषचंद्र बोस,महात्मा गांधी, भगतसिंह,लो.टिळक, व द्रेशेखर आझाद, झाशीची राणी अरया अनेक रत्नांनी जन्म घेतला,तो एका ध्येपूर्तीसाठी.कित्येक डावपेच झाले,कित्येक संघर्ष झाले,कित्येक करारही झाले पण 14 ऑगस्ट 1947 चा रात्री आर या पार अशी प्रखर भूमिका साधत इंग्रजांच्या ध्वजाला खाली उतरवत स्वतंत्र भारताचे प्रतीक मानले जाणाऱ्या तिरंगा ध्वज त्याच्या मानाच्या स्थानावर आला आणि अशाप्रकारे 15 ऑगस्ट 1947 ची सोनेरी पहाट स्वतंत्रता घेऊन आली.

"गुलामगिरीचे बंध ते, सारे तुद्दून पडले अन् स्वातंत्र्याच्या लखलखत्या सूर्याशी, एक नवीन नसते जडले"

हे सर्व ठीक आहे, आपणासर्वांना ज्ञातच आहे पण आपण कुठेतरी या स्वातंत्र्याची व्याख्या विसरत चाललो आहे की आज ज्या स्वातंत्र्य भारतात आपण जगतोय त्याला स्वतंत्र करण्यासाठी आपल्या पूर्वजांनी वर्षानुवर्षे गुलामगिरीत जगतांना इंग्रज सरकारचे अत्याचार सहन केले,हसतहसत फाशीच्या दोरखंडाचे चुंबन घेतले.स्वतःच्या कुटुंबाची पर्वा न करता या भारतमातेच्या प्रेमापोटी बलिदान केलं.पण तरीही आज प्रश्न पडतोय की खरचं आपण स्वतंत्र आहोत का?आजही बालमजुरी, स्त्रीशोषण,लाचारी,बेरोजगारी स्वतंत्रता दर्शवते का? विचाराचे स्वातंत्र्य असतांनाही कितीतरी विचार दडपून टाकले जातात यात स्वतंत्र आहे का?आणि त्यात आज आपण हा सण एकत्र येऊन साजरा करू शकत नाही आहे त्या महामारीच्या काळात सध्या सुविधांचा तुटवडा पडल्याने गेल्या वर्षभरापासून घरामध्ये बसून आहोत,चूक नसतांना आरोग्य,पैसा यांचे संकट ओढवले आहे हेच ते स्वातंत्र्य आहे का?

मग तुम्ही म्हणाल या 21व्या शतकात वावरांना स्वातंत्र्याची व्याख्या कशी करावी? वाईट तर या गोष्टींचं वादत आहे जेव्हा आपली तरुण पिढी कानात हेडफोन लावून, बार्डक जोरात चालवून या धरतीला तुडवतांना विसरतो आहे की या धरतीची इंच इंच मिळवतांना कित्येक जीवांचे रक्त सांडले गेले.मला वाईट तर तेव्हा वादत जेव्हा आजचा तरुण ज्याच्या पाठीवर ओझं आहे जबाबदारीच,समाजाच्या इच्छा-आकांक्षांना एकत्र बांधून ठेवण्याची तयारी करण्यापेक्षा मोबाईल आणि दारुच्या ओघात वाहवत जात आहे.वाईट या गोष्टींचं वादतंय की स्त्री सशक्तीकरणचा तेंभा मिरवतांना आज 7व्या जेनेंतर काय तर दिवसाहवळ्या अनेक चिमुरड्या,मोठ्यांना चिरडलं जातंय.

आता तुम्ही म्हणाल की यावर पर्याय काय? तर **देशभक्त व्हा..**



देशभक्ती दाखवण्यासाठी सीमेवर जाऊन शत्रूशी लढा देऊन प्राणाची बाजी लावा असं माझं मुळीच म्हणणं नाही, कारण छातीवर गोळी झेलून व फक्त सैन्यात भरती होणं म्हणजे देशभक्ती नव्हे आणि ते सर्वांना शक्यही नाही. मग खरी देशभक्ती म्हणावी तरी कशाला? तर बेइमानीला बाजूला सारून इमानदारीने काम करणं आहे देशभक्ती... कर्तव्यदक्षतेचे, सरकारी नियमांचे पालन करणे आहे देशभक्ती.. गरजूंना अन्नदान, औषधदान तसेच एक जीव वाचवण्यासाठी रक्तदान करणं ही आहे देशभक्ती.. आपल्या स्वार्थाचा नव्हे तर पुढील पिढ्यांच्या स्वास्थ्याचा विचार करून वृक्षारोपण करणं हीही एक प्रकारे देशभक्ती नव्हे का. आपल्या देशाने कला, विज्ञान, साहित्य, क्रीडा अशा अनेक क्षेत्रात आपल्या नावाचा इंका पूर्ण जगात गाजवला, पण सध्या कोरोना काळात देशाचा आर्थिक व्यवहार इगमगला असून तो सांभाळण्यासाठी जास्तीत जास्त स्वदेशी मालाचा वापर करणे ही आहे देशभक्ती.

जेव्हा बेरोजगारी, गरिबी, बलात्कार थांबतील.. शेतीसाठी मुबलक पाणी मिळेल.. प्रत्येक विद्यार्थ्याला मूलभूत शिक्षण भेटेल तेव्हा खऱ्या अर्थाने देश स्वतंत्र झाला असे म्हणता येईल. त्या वीरांनी नक्कीच जातपात, उच्चनीचता न बघता एकतेचा मोलाचा संदेश दिला पण आजही छोटछोट्या करणाहून शत्रुत्व पत्करले जातच आहे.

थोडक्यात कसा असावा आपला देश तर,

**‘ जिथे सगळ्यांची जात ही भारतीय असेल,
उच्चनीच भेदभाव सीमापार असेल,
शत्रूचा थरकाप उडवेल एवढी विचारांना धार असेल,
प्रत्येक भारतीयाचा अन्यायावर होणारा वार असेल,
भारतीयाच्या नात्यासह सुख, शांती, समाधान भेटेल,
जगातल्या प्रत्येक व्यक्तीच्या मनात भारताविषयी आदर असेल ‘**

आणि सर्वात महत्त्वाचं गेल्या खूप काळापासून कोरोनाच्या गुलामगिरीत बंदिस्त असलेले आपण जेव्हा सर्व नियम पाळून, जबाबदारीने याला लढा देऊ आणि आजचा एक दिवस प्रत्यक्षरीत्या एकमेकांसोबत गर्वाने साजरा करू तेव्हाही खऱ्या अर्थाने देश स्वतंत्र होईलच की.

शेवटी काय तर त्या सर्व शहीद क्रांतिकारकांना आठवून नमन करून हेच सांगू इच्छिते की,
15 ऑगस्ट - इंग्रजांच्या गुलामगिरीतून देशाला स्वातंत्र्य मिळालं असला तरी बेरोजगारी पासून पर्यावरणशील देश घडवण्यापर्यंत, अष्टाचारी लोकांपासून अन्याय करणाऱ्यांना ठेचण्यापर्यंत अनेक आव्हानं देशासमोर उभी आहे. ही आव्हानं पेलण्यासाठी आजपासून तुम्ही आम्ही एक शपथ घेऊया की आजच्या एका दिवसापूर्ती देशभक्ती न बाळगता सदैव भारत माझा देश आहे म्हणून जगूया आणि आपल्या देशाला सर्वच बाबतीत जगाच्या पाठीवर महासत्ता बनवूया आणि स्वतंत्र भारताचा जरी नागरिक असलो तरी अजूनही अशा अनेक गोष्टी आहेत ज्याने आपली, समाजाची व देशाची प्रगती खुंदली आहे त्यावर लवकरच मात करू आणि शेवटी जाताना एवढंच म्हणेल की,
"उत्सव तीन रंगांचा आज सजला
आणि नतमस्तक मी त्या सर्वांची
ज्यांनी माझ्या भारताचा इतिहास घडवला"
जय हिंद! जय महाराष्ट्र! जय भारत!



- खुशबू योगिराज चौधरी
(TE IT)

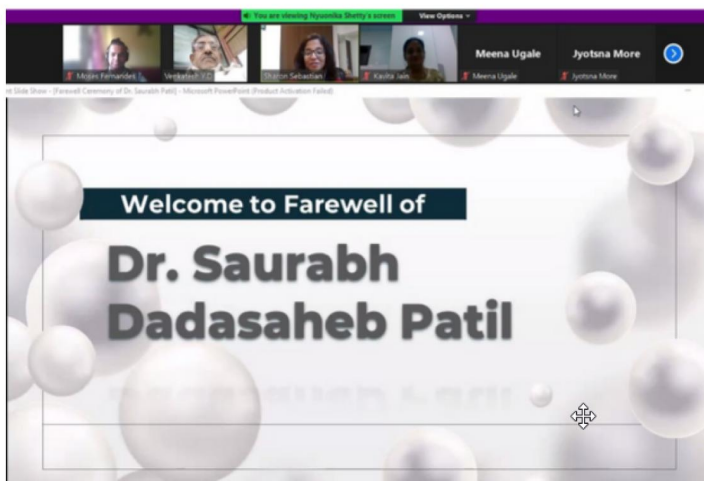
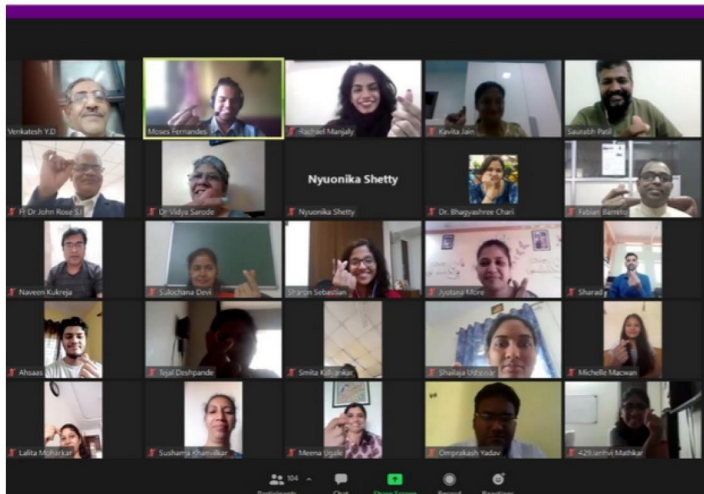
CONVOCAATION CEREMONY



XIE's 12th Convocation Ceremony for the batch of 2020 was held on Saturday, March 20, 2021. Owing to the covid-19 restrictions, only the rank-holders from each department and their parents attended the ceremony in college while the rest of the students joined virtually. The Chief Guest, Fr. Dr. Sebastian L. Raj, S.J. and the Pro-Vice-Chancellor of St. Xavier University, Kolkata graced the ceremony virtually. The Guest of Honor, Prof. Aughi Dalton, former Course Director, Xavier Institute of Communication, St. Xavier's College, Mumbai, added to the grandeur of the occasion with his presence along with Fr. Dr. John Rose, the Director and Dr. Y. D. Venkatesh, the Principal. This year, a total of 230 students graduated from XIE. The Valedictorian – Student of the Year Award was shared among two student-toppers, Ms. Manali Parab from the EXTC Department and Mr. Abhishek Ghoshal from the Computer Department. Each received Rs. 15000 from the Joan and Frank Trocki Scholarship. The valedictorians, as well as the other toppers and their parents shared their fond memories and expressed their gratitude towards the college. This year, the “Best Department” trophy was awarded to all the three Departments for 100 percent result.



SAURABH SIR'S FAREWELL



The Student Council of Xavier Institute of Engineering had organized a farewell party for Mr. Saurabh Patil, Head of the Computer Department of XIE, which was held on 29th January 2022 virtually. The event was conducted under the guidance of Prof. Kavita Jain, The Dean of Student and Staff Welfare. The farewell event started with a prayer followed by the Director Fr Dr John Rose SJ and the Principal Dr Y.D. Venkatesh speeches who were called upon to share a few words on how lucky we were for having Mr. Saurabh Patil for 8 years as a regular and respected professor of the college. After this, a few professors shared their moments and memories they had with Saurabh sir followed by a small and heart touching speech by the students from TE and BE. The spotlight was then shifted towards Saurabh sir where he thanked everyone and shared great memories he made throughout his journey at XIE. After his speech, the students showed a very kind gesture by presenting wonderful placards saying "Thank You". At the end of the event lovely screenshots were taken where everyone did Saurabh sir's favorite pose and the vote of thanks was rendered.



The Student Council of Xavier's Institute of Engineering had organized a Christmas Day celebration on 21 December, 2021. Owing to the covid-19 restrictions, only the student council members along with the teachers and faculty members attended the celebration in college. The event was hosted by Ms. Lysandra D'Souza from TE-COMPS and Ms. Nyuonika Shetty from TE-EXTC. It commenced with a prayer and with an introduction of the student council. This was followed by a welcome dance performance by the Student Council members and hosts to raise the Christmas spirits. Then, Principal sir and Father Albert addressed the staff and the students with their inspiring words. A few interesting games such as the blindfolded drawing, musical chairs and spot prizes were also conducted by the students. The event concluded with lunch and the distribution of celebratory gifts for all the students and staff members. Around 40 staff members and 15 students attended the event and overall it was a celebration full of joy.



XMAS CODING EVENT



Transmission 2022 organized their first event offline called Xmas Coding Marathon in the Computer Center on 22 December, 2021. The event was exclusively designed for FE students yet at the same time being an inter college event where the participant's knowledge was tested on HTML and CSS at various levels with fun activities. The event was conducted under the guidance of Prof. Kavita Jain, the Dean of Student and Staff Welfare. The technical committee worked for the organization and successful implementation of the event. The event was organized in three rounds, Quiz for HTML and CSS, Replicate a structure using the technologies and lastly Create your own work. using these technologies. Out of 30 participants 17 were selected, and qualified for the final round. The judges for the event were Prof. Nilambari Narkar, Prof. Stella J and Prof. Sayali Mane. The winners. were awarded certificates by them. The first prize winner, Mr. Amir Zakaria was awarded a cash prize of Rs.3000/- while the runner up, Mr. Mervis Mascarenhas was awarded a cash prize of Rs. 2000/-.

CSX



| Interprise Data Strategy

This was the first event of CSX for 2020 which was inaugurated in the presence of our Director Fr. Dr. John Rose S.J. and Principal Dr. Y. D. Venkatesh. Both spoke a few kind and motivating words for encouraging the students before the start of the event. After the inauguration Prof. Jyotsna More gave an introduction about the CSX committee. Prof Teena Verma introduced the speaker of the webinar Mr. Melvin Pereira who is currently working as a Senior Manager in Process and Technology at Microsoft. The webinar was conducted to give information on how the data is managed in enterprises and what are the complications involved while doing so. This will help students to visualize how actually the data is managed in the real world and improve their practical knowledge.





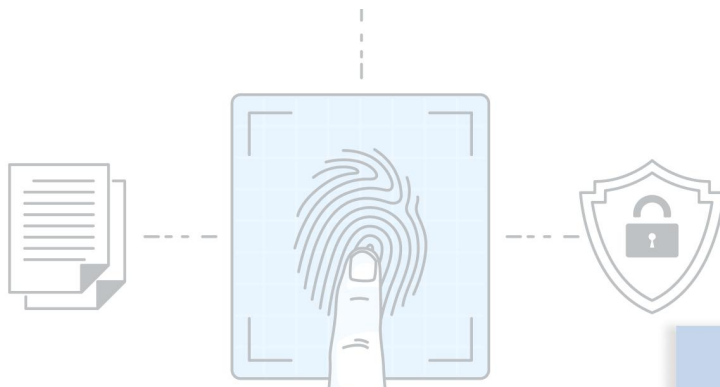
Treasure Hunt

Coding is accepted as a significant part of IT Industry and to mix that with the classical games played from centuries, the Computer Society of Xavierites planned an event to help unleash the hidden potential and the awaken the detective mind within. The Event was planned and organized by Riya Sawant, Monika Anabathula and Divya Kulkarni under the guidance of Prof. Jyotsna More and Prof. Teena Varma. The event was conducted in two different sections for FE and SE, TE, BE respectively. It was a time-bound activity. The students were provided with a set of passwords-protected files for which the passwords needed to be decoded to gain the access to another question, unlocking the questions at each level via the output gained from the previous one, each output having a score, the team to gain maximum profit of marks using various strategies was declared as the winner. Top three winners from FE and SE, TE, BE were awarded with cash prize and achievement certificates. All participated students were given participation certificates.

Competitive Coding Workshop

With the motive of encouraging students to improve their competitive programming skills, CSX organized a workshop on Competitive Coding. The workshop was organized by Bhavin Jain, Anurag Yadav and Reetik Gupta with the guidance of Prof. Jyotsna More and Prof. Teena Varma. The resource persons for the workshop were Siddhesh Borkar and Mukesh Parmar, both of them currently in the final year of BE-IT. The workshop was conducted to introduce students about how competitive programming can lead to various different opportunities. This will make the students aware about the career benefits it possesses.





Fastest Finger First

The Computer Society of Xavierites conducted an event named “Fastest Finger First” on 21st March, 2021. The motive of conducting this event was to improve the coding skills and check the accuracy of participants while cracking various coding problems in the given period. The Event was created and organized by Tejol Lahane (from TE COMP), Utkarsha Gharat (from SE IT) and Yash Chitroda (from SE IT) with the guidance of Prof. Jyotsna More and Prof. Teena Varma. The event consisted of two languages namely Python (for SE, TE, BE) and HTML (for FE). The event consisted of two rounds (MCQ based). Limited time was allotted to each question based on the difficulty level of questions in both the rounds. Participants were instructed to answer the questions through a chat box and to keep their cameras on throughout the event. The First Round mainly concentrated on the basics of the mentioned coding languages. The eligibility criteria for qualifying the 2nd Round were to answer minimum 7 out of 15 questions correctly. The Second Round was comparatively tougher than the First and consisted of debugging the codes given.

Top 3 winners from FE

1. Tanvi Bhabal (IT)
2. Vishal Mamluskar (COMP)
3. Anisha Prabhu(IT)

Top 3 winners from SE, TE & BE groups

1. Jarvis Trinidad (TE IT)
2. Joshua Sequeira (TE COMP)
3. Ajit Jena (SE IT)

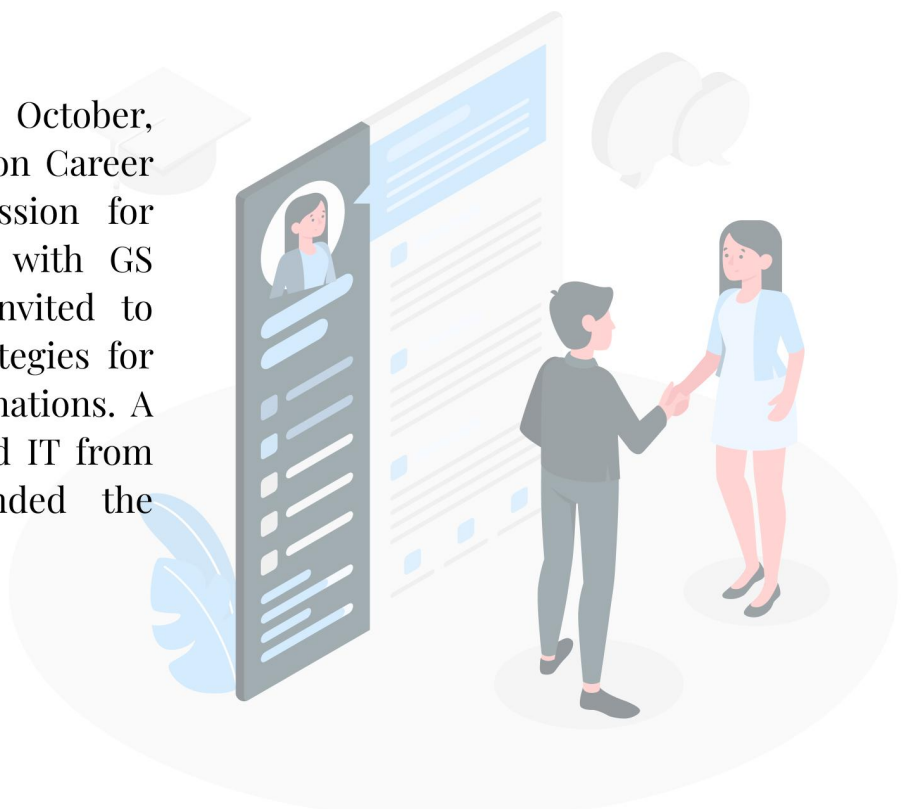


25/10/2021

On 25th September, 2021, XIE organized the Student Council Investiture Ceremony of year 2021-22. The program was hosted by Ms. Lysandra D'Souza and Mr. Diogo D'Costa from TE. The Chief Guest of this grand event was Fr. Learoy Rodrigues SJ, Dean of Studies at the Jesuit Juniorate in Vinayalaya, Mumbai. He addressed the gathering on "Leadership in Jesuit Institutions." The Director of XIE encouraged the Student Council to organize technical events to sharpen the technical skills of the students. Later the Principal of XIE too motivated the student council to organize different events in the technical, cultural and sports festivals of XIE. Prof. Kavita Jain, the Dean of Student and Staff Welfare coordinated the event and asked selected members of the Student Council to commence with an oath to accomplish the responsibilities with ethics. The grand ceremony was successfully completed.

17/10/2020

The student council on 17th October, 2020 organized a webinar on Career in Civil Services: Strategy Session for Undergraduates in association with GS Score. Ilma Afroz, IPS, was invited to discuss exam patterns and strategies for answering Civil Services Examinations. A total of 71 students from SE and IT from COMPS, IT and EXTC attended the session.





Online Chess Tournament

An Online Chess Tournament was organized on 17th October, 2021. It was held online via 'liches.org', where players had to register and were made to compete against each other in knockout format. It was an amazing battle of talented minds. The tournament took place in 5 rounds, where players were paired randomly with other players in the arena. The first and second round were of 7 minutes with an increment of 3 seconds and consisted of a single match between the paired players. A total of 24 got eliminated in these 2 rounds. The third round followed the best of 3 match format with a timer of 5 minutes and 2 second increment. The semifinals and the finals consisted a total of 3 matches for a timer of 7 minutes and 3 seconds increment and were the most challenging and demanded extreme concentration of the participants. The participant showed great enthusiasm and made all the matches very engaging. The finals were also streamed live on YouTube on the XIE Student Council channel. Out of 35 participants, only 2 emerged as winners.

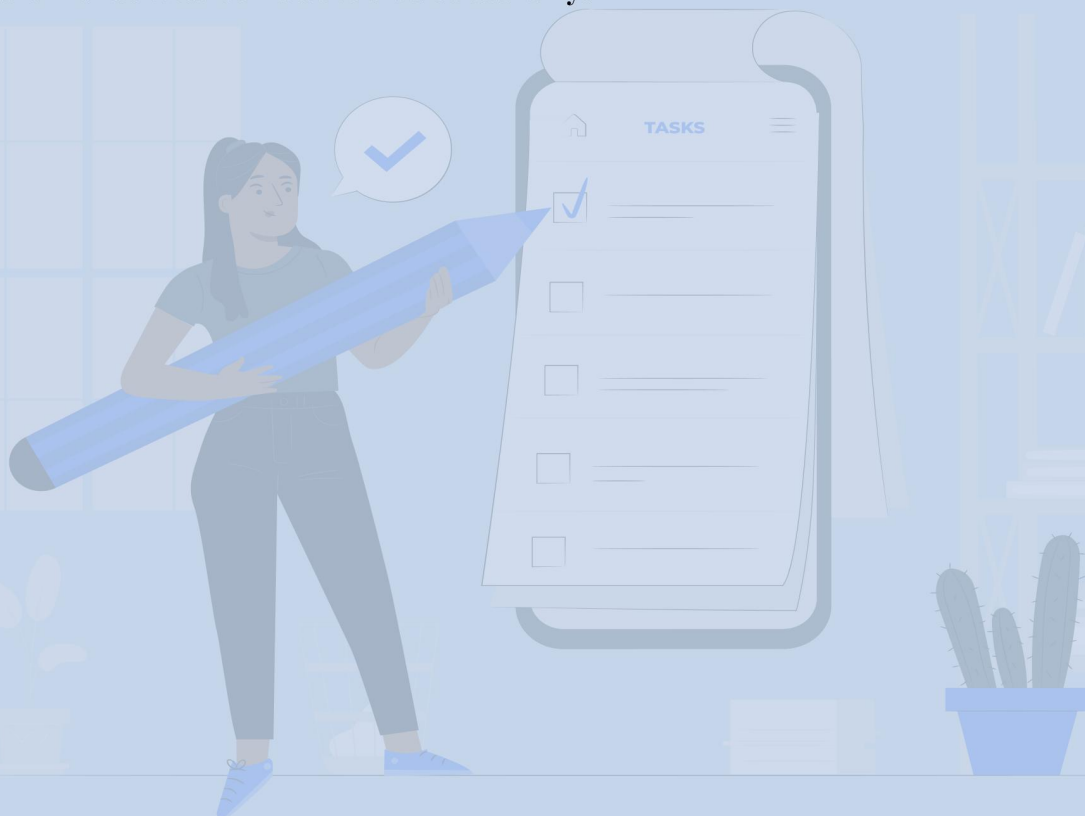
THE WINNERS WERE:

**1st Place –
Shailesh Maurya,
TE COMPS**

**2nd Place –
Chirac Parmar,
SE EXTC**

‘Seminar on Synement’

On Saturday, 2nd October 2021, a ‘Seminar on Synement’ via zoom was held to let students know about the application named as Synement. The session was loaded with ready to go information. The seminar started with a very exceptional introduction of creator of Synement application Mr. Danyl Fernandes given by the talented hosts, Mr. Moses Fernandes and Ms. Yulette Alvares. Danyl introduced his application to his students and enlightened on how he got the motivation to make the application. He also enlightened on the benefits of the application that how students can manage their assignments and keep a track of the due dates of assignments. Other than the benefits and working of the application, Danyl also told that how students can be a part of progress of application and that how students can give their contribution and apply their own ideas for betterment of the application. Lastly, he also addressed students about Github, where they can view the code and make changes. Many students attended this interactive session that was conducted successfully.



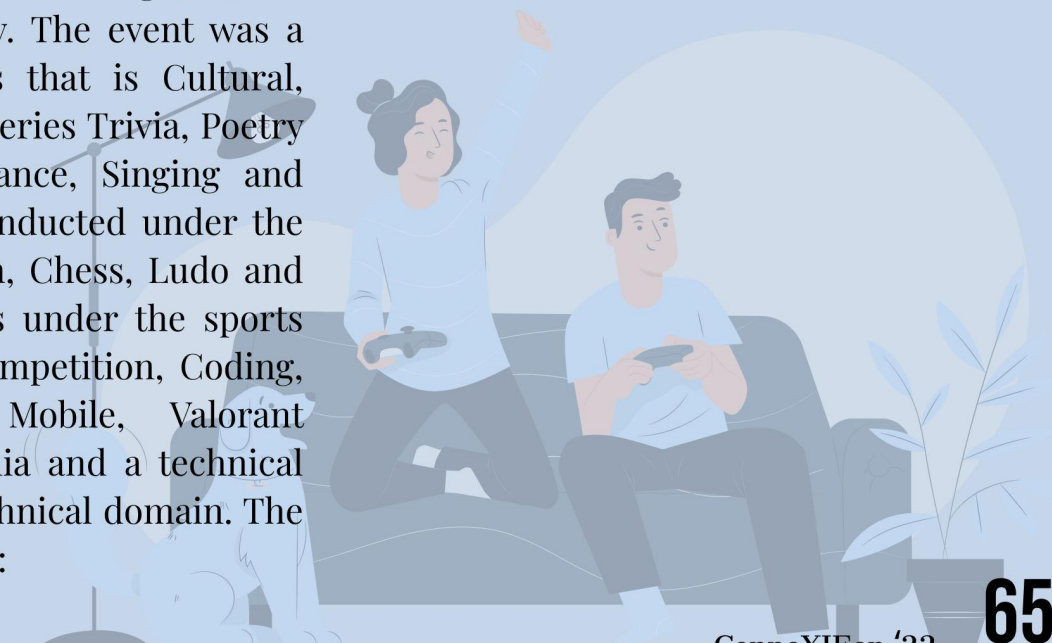
VIRTUOSIC EVENTS

The Student Council, under the coordination of Prof. Meena Ugale organized “Virtuosic 2021”. It began on 1st February, 2021 virtually. The event was a blend of three realms that is Cultural, Technical and Sports. Series Trivia, Poetry Slam, Photography, Dance, Singing and Debate were events conducted under the Cultural arena, Carrom, Chess, Ludo and Among Us were events under the sports section and Project Competition, Coding, gaming like COD Mobile, Valorant Veterans, Football Mania and a technical talk were under the technical domain. The details of the events are:

Series Trivia: The series trivia was held on the same day of inauguration. The event consisted of 3 rounds where participants speculated various TV Shows based on clues and puzzles provided to them. Shantanu Chhailkar, Pranay Patil and Adish Shivdilkar were declared the winners among the 70 participants.

Valorant Veterans: Valorant a free-to-play shooter game was organized on 1st February. There were 25 rounds in a game. The matches were held on the basis of the veto system. Manish Panidan, Rohan Thorat, Harsh Kadam, Joshua and Raghuveer Rajeshkumar Deepala were declared the winners.

PES: It was conducted on 2nd February. The event took place over the player’s individual apps. Four rounds were played in order to determine the winners. At the end of the event, out of 32 participants, only Conrad Rodrigues from FE won while Gandharva More from SE COMPS was the runner up.



Project Competition: Project Competition was conducted as a part of technical event under Virtuosis on 4th February. The participants had to display their projects to the judges Prof. Suvarna Aranjio, Prof. Martina Dsouza, Prof. Jaya Jeswani, Prof. Omprakash Yadav, Prof. Vijay Jumb, Prof. Kunal Meher, Prof. Smita Pawar, Prof. Tejal Deshpande.

Ludo: It was conducted under the Sparx Department on 5th February. A total of 73 students registered for the game. It was conducted on Ludo King app and Google Meet. At the end out of 73 only 4 emerged as finalists. At the end of match among the 4, Yash Chitroda emerged as winner and Onkar Kanse as the runner up.

Geeky Grinders: Geeky Grinders was a major coding contest organized under the technical section of Virtuosis on 5th February. It consisted of 2 rounds. After completing 2 rounds the finalists were questioned and judged based on their solution. The judges for the event were: Prof. Chhaya Narvekar, Prof. Saurabh Patil, Prof. Jaychand Upadhay, Prof. Sushma Khanvilkar, Prof. Vijay Katkar and Prof. Kavita Jain. The winners of the event were: Mukesh Parmar, Pallav Savla and Kevin Fernandes.

Solo and Duet Dance: The Solo and Duet Dance Competition was conducted as a part of the Cultural Event under the Virtual Fest. The entries submitted by participants were judged by Xavier Simoes. Out of 13 Participants, 5 were selected as finalists, namely Chinmayee, Misha, Rachael, Prachee and Ninad. Chinmayee Patil and Rachael Manjaly, both from SE-COMPS were declared as the winner and runner up respectively.

Vocotronix- The Singing Competition was conducted as a part of the Cultural Event under the Virtual Fest. The entries submitted by participants were judged by Pearlin Pereira. Out of 15 Participants, 5 were selected as finalists, namely Yulette, Nyuonika, Christel, Rachael and Sumeet. Yulette Alvares from FE and Nyuonika Shetty, from SE-IT were declared as the winner and runner up respectively.

Photography: The Photography Competition was conducted as a part of the Cultural Event. The entries submitted by participants were judged by Ashutosh Sir. Out of 32 Participants, Aditi Pathare from TE-IT and Abhiruchi Patil from TE-COMPS were declared as the winner and runner up respectively.

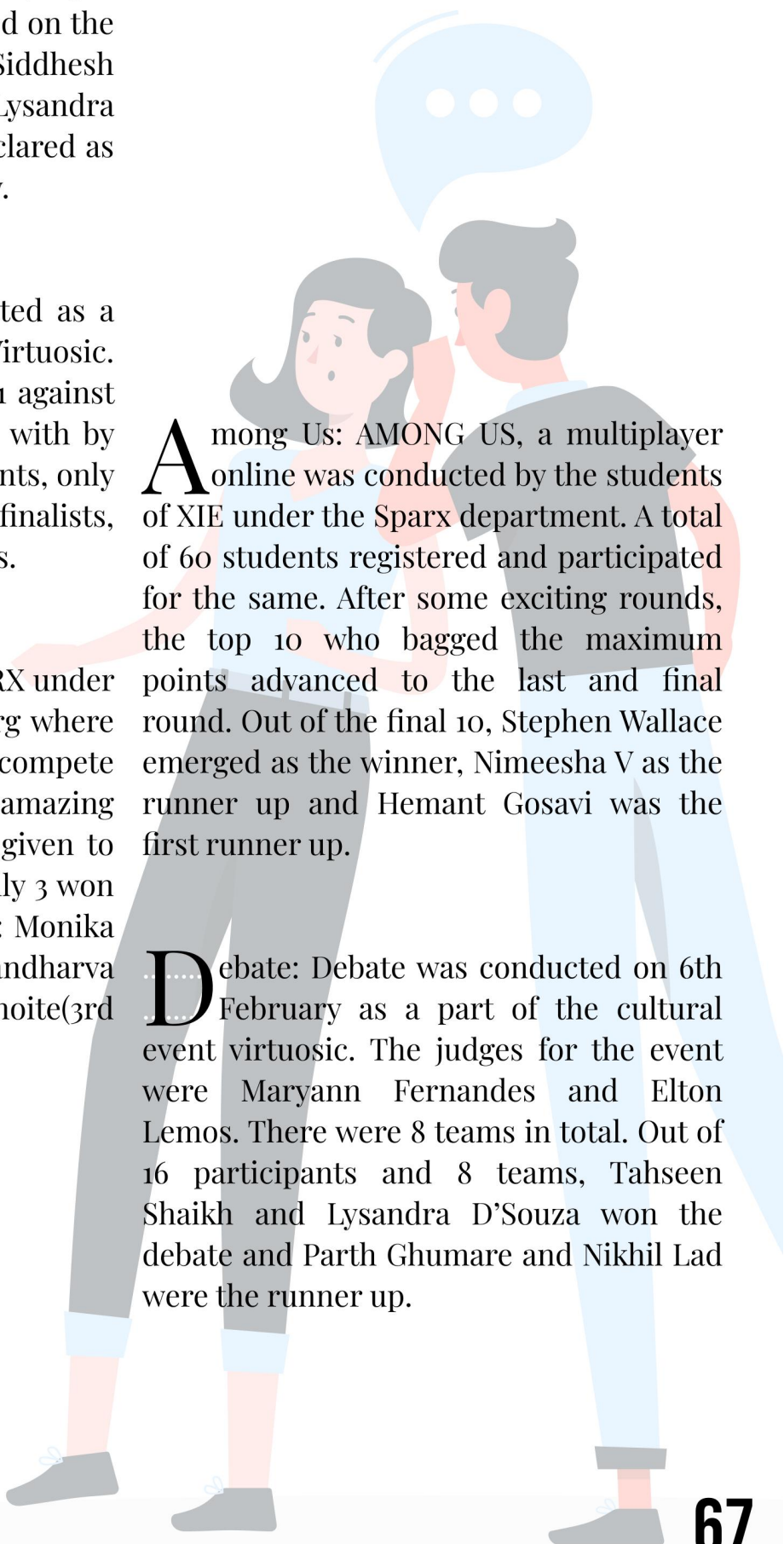
Words Worth: 'Words Worth' the slam poetry competition was held on 2nd February. The participants were made to recite their pieces in front of judges Amrata Joshi and Jayesh Jain. Based on the performance of the poets, Siddhesh Deepak Navghare from FE and Lysandra D'Souza from SE COMPS were declared as winner and runner up respectively.

Carrom: Carrom was conducted as a part of sports event under Virtuusic. The participants had to play 1 to 1 against the opponent they were matched with by the organizers. Out of 48 participants, only Onkar and Sandeep competed as finalists, where Sandeep emerged victorious.

Chess: Chess, as a part of SPARX under was held online via lichess.org where players had to register and compete against each other. It was an amazing battle and cash prizes were also given to winners. Out of 38 participants only 3 won the competition. The winners are: Monika Anabathula(1st Place), Gandharva More(2nd Place), Saurabh Bhoite(3rd Place).

Among Us: AMONG US, a multiplayer online was conducted by the students of XIE under the Sparx department. A total of 60 students registered and participated for the same. After some exciting rounds, the top 10 who bagged the maximum points advanced to the last and final round. Out of the final 10, Stephen Wallace emerged as the winner, Nimeesha V as the runner up and Hemant Gosavi was the first runner up.

Debate: Debate was conducted on 6th February as a part of the cultural event virtuusic. The judges for the event were Maryann Fernandes and Elton Lemos. There were 8 teams in total. Out of 16 participants and 8 teams, Tahseen Shaikh and Lysandra D'Souza won the debate and Parth Ghumare and Nikhil Lad were the runner up.



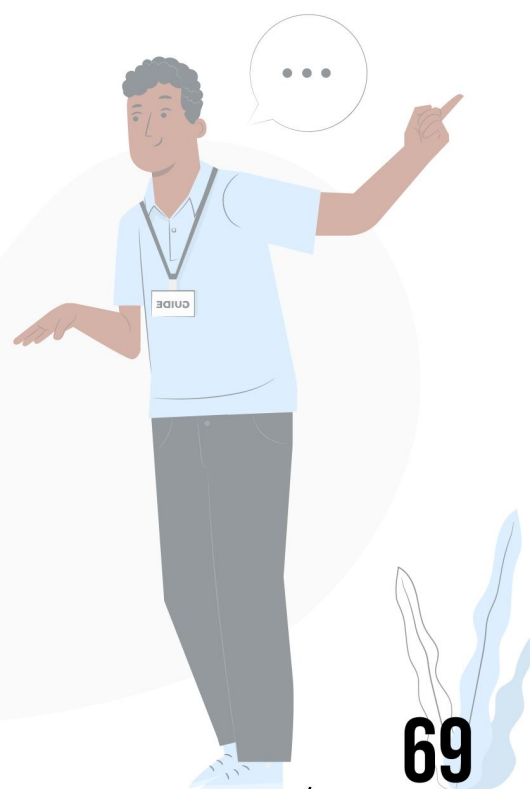
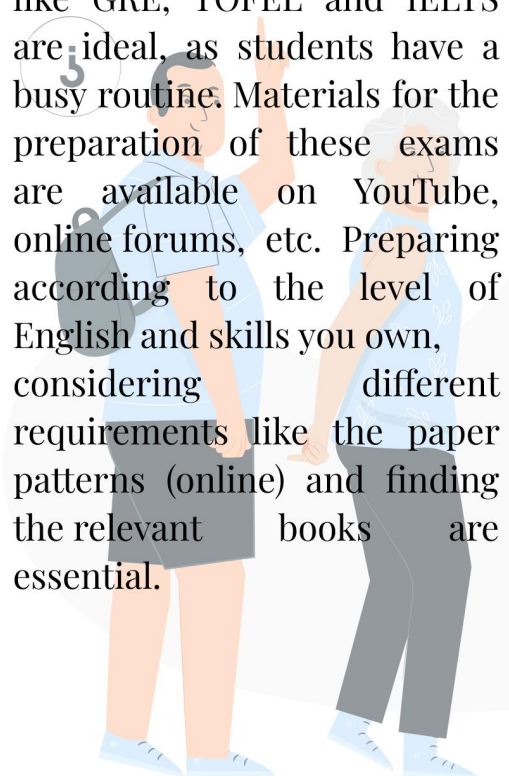
ASHUTOSH SIR'S FAREWELL



An online farewell for Dr. Ashutosh Valavade was organized by the department of Applied Sciences and Humanities on 22nd September 2021 in the evening. The Director, Principal, faculty members and students from BE, TE and SE shared fond memories and experiences of their association with Ashutosh sir.

Target audience included a mixed crowd of SEs, TEs and BEs and the purpose was to spread awareness about the correct steps an individual is expected to take while selecting college and country for higher studies abroad. Our alumni gave an insight into university and domain selection. Deciding what to pursue first must be followed by the subject to be specialized in. One must go online, check which top institutes offer these and choose the country. Also, checking for finances, as it varies from university to university and targeting universities in that range is required. The Alumni also gave an overview on preparing for entrance exams. Keeping a buffer of 6 months for exams like GRE, TOFEL and IELTS are ideal, as students have a busy routine. Materials for the preparation of these exams are available on YouTube, online forums, etc. Preparing according to the level of English and skills you own, considering different requirements like the paper patterns (online) and finding the relevant books are essential.

Target audience included a mixed crowd of SEs, TEs and BEs and the purpose was to spread awareness about the correct steps an individual is expected to take during one's college life to match the current industrial skills and demands needed. Queries related to the placement drive targeted towards the current SE, TE and BE in lieu of the pandemic, and guidance on dos and don'ts to be followed by the students in their college semester, such as academics and extracurricular activities. The resource people were Sharrel Pinto, Franklin Puthuva and Priyata Dhar. The schedule of the event was 5:00 pm to 6:00 pm.



ALUMNI REUNION

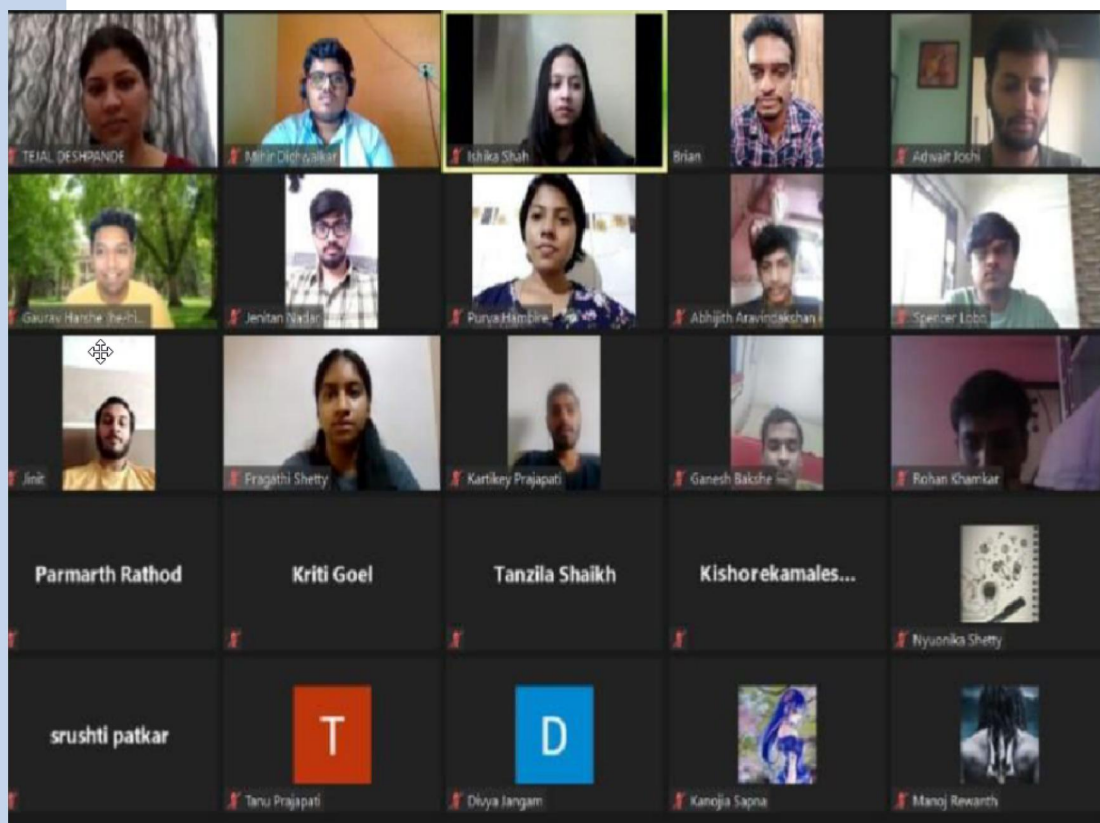
An Alumni meet was held on the 23rd of October, 2021 with all alumni from 2009 onwards. The event was primarily to catch up with faculty members and other students, and revisit college memories. The hosts, Kritika and Spencer welcomed everyone to the meet and Nyuonika Shetty led everyone in a short prayer. Kritika introduced the chief guest of the day, Fr. Dr. Tony, who spoke a few words about the Jesuit vision of education and about being close to one's alma mater. Following this, Fr. Dr. John Rose and Dr. Y.D. Venkatesh were also introduced and they spoke about the beautiful experience of college life and remaining connected to XIE. Then Sahil Panchal spoke about what he received and what he gave back to XIE, thus inspiring all other alumni present to do the same. We then had the XIE updates section where XIE's progress and placement statistics in the past few years were shared by Saurabh sir and Naveen sir respectively.



Then the entertainment section started with a beautiful song by Nyuonika Shetty, and was followed by Jenitin Nadar's keyboard skill. The Sumeet Sharma showcased his singing skills with an amazing live performance, followed by Himanshu Gharat's violin performance which moved everyone. Lastly, we had a beautiful poem by Lysandra D'Souza, talking about the past. Then we had some fun games such as Never Have I Ever and This or That, which was done through polls. This was followed by a video which incorporated all the best moments of the past batches, which made everyone smile as they remembered their past. Everyone then dispersed into allotted breakout rooms where students could interact with each other and also with the faculty. After the allotted time was over, everyone returned to the main room and videos of speeches by previous alumni were presented. Then the Best Alumni award was announced by Father, which went to Jagdish Rohit of the 2009 batch, who then shared some of his experiences at XIE and his career. The meeting ended with a vote of thanks by Kritika and all alumni left feeling refreshed after reconnecting with their past.

Schedule of the event: 18:00 to 20:30 hours.

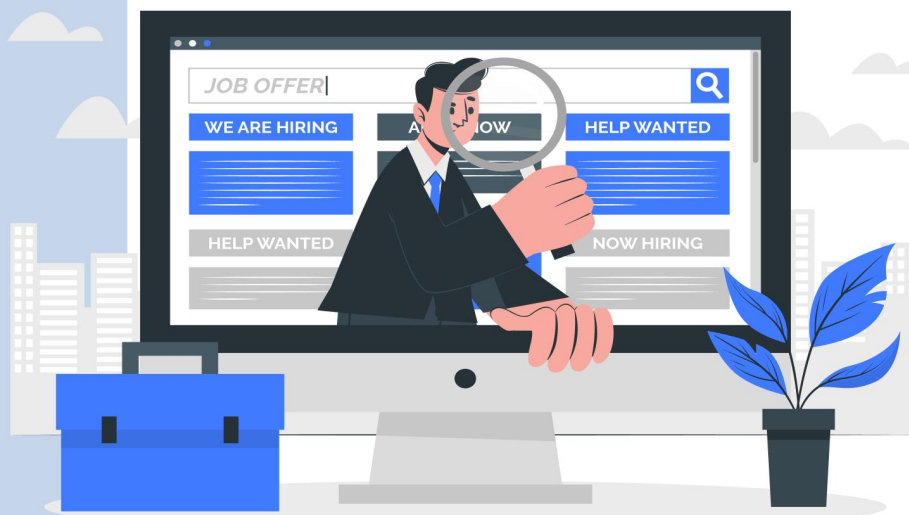
Place: Held on an online platform via Zoom Communications.



Career Guidance Talk

The Telecommunication Society of Xavierites organised a webinar on "Career guidance Talk". It was held on 10th April, 2021 conducted by XIE's EXTC alumni Mr. Gaurav Harshe & Mr. Brian D'costa. It was hosted by Pragathi Shetty (SE EXTC) & Tanzila Shaikh (SE EXTC). Mr. Brian D'costa initially explained how to manage academics &

other new technical things from Udemy, NPTEL & other courses. He shared his experience in embedded systems while recommending various courses & internships. Mr. Gaurav Harshe then directed the students on how to pursue higher studies abroad while sharing his personal experience on how he cracked the exams. The session concluded after which 2 breakout rooms were arranged for each speaker in order to clarify student's doubts.





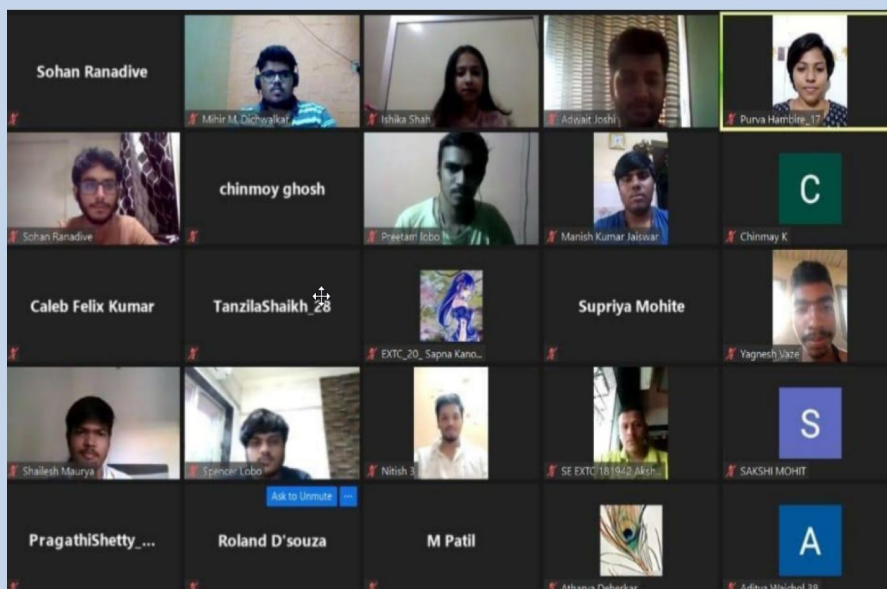
UI UX & Product Design

The Telecommunication Society of Xavierites conducted a webinar on Introduction to UI UX & Product Design on 11th April 2021 with the objective to guide students who are looking forward to excelling in UI UX & Product Design or want to explore more of design. The speaker for the webinar was Tanay Modi who had gained his experience by working in the organization Eleven Technolab & is currently working as a product designer for Parallel. The workshop was hosted by Mauli Pawar (TE EXTC). The speaker introduced UI UX & Product Design & explained its importance in today's industry. He also explained the difference between UI UX Product Design & its fundamentals & cleared some misconceptions about the same.

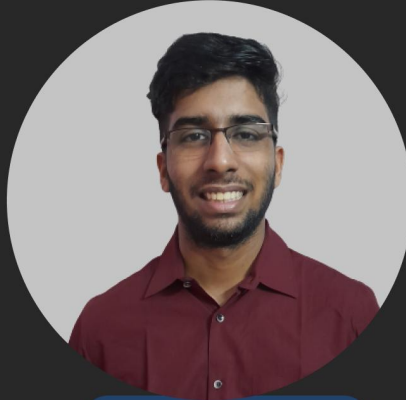
ConneXIEon '22 Introduction to Networking & Cisco Packet Tracer

The Telecommunication Society Of Xavierites organised a 2 day workshop on "Introduction to Networking & Cisco Packet Tracer". It was held on the 28th & 29th of March, 2021. It was conducted by XIE's BE EXTC students Sohan Randive & Preetam Lobo. Dr. Vidya Sarode, EXTC Department of XIE's Head, inaugurated the event on 28th

March. Sohan Randive then took over & discussed the basics of networking along with advantages & disadvantages of packet tracing. Various topics such as layer OSI model, TCP/IP model, its applications & the protocols that run the network layer were covered. Preetam Lobo then took over & directed the students on the workings of Cisco Packet Tracer software & taught them about the different topologies. On 29th March, Sohan Randive began by explaining different networking devices. Preetam Lobo then elaborated further about IP addressing, their classes, network, broadcast addresses & CIDR address blocks. They then helped the students to run the router configurations on Cisco Packet Tracer. A quiz was then conducted & doubts were cleared. This workshop helped the students to practice building simple & complex networks across a variety of devices & extend beyond routers & switches.



TECHNICAL SECTION



Technical Editor
NEIL PINTO

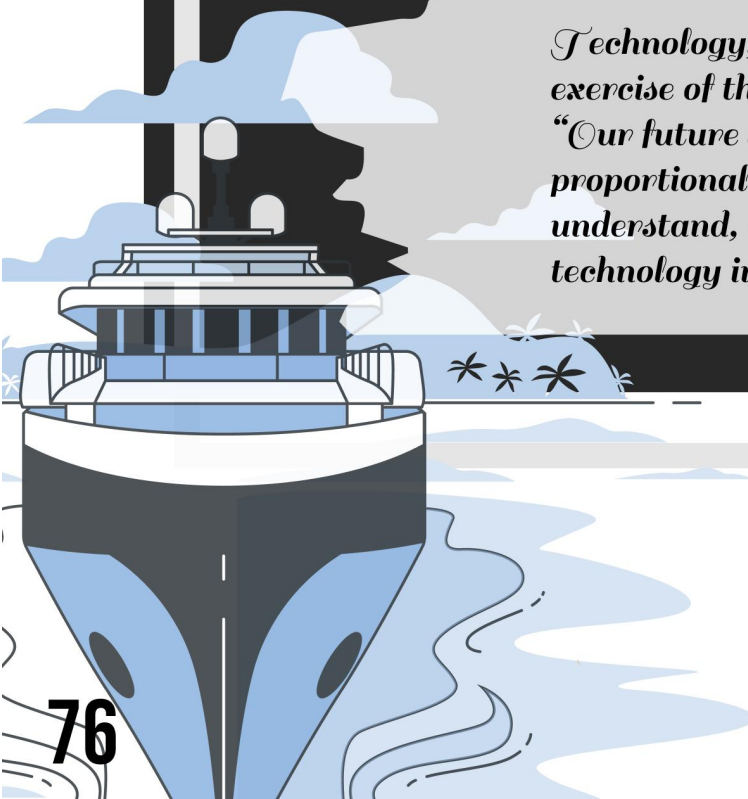


Technical Editor
TAHSEEN SHAIKH



Technical Editor
SHAUN MASCARENHAS

Technology, like Art, is a soaring exercise of the human imagination. "Our future success is directly proportional to our ability to understand, adopt and integrate new technology into our work"



WILL HUMANS BECOME EXTINCT?

In the 1950s, Arthur Samuel of IBM developed a computer program to play checkers, which recorded and remembered all positions it had seen and combined this with the values of the reward function. That's when he came up with the name "Machine Learning".

Since then, Machine Learning has evolved by borrowing concepts from Mathematics, Statistics, Optimization, Data mining, etc to serve a plethora of applications. Think of a task that Machine learning cannot accomplish today, be it, Auto-tagging feature of Facebook, product recommendations for users on Amazon and Netflix, Tesla's self-driving car, or Google's automatic language translation algorithm, you name it and it's available! Machine learning seems to be a ubiquitous solution to any problem in engineering, economics, social sciences and entertainment. This branch of Data Science has spread it's wings and infiltrated many applications and is developing at a very fast pace. The question is: Is Data Science going to replace humans or assist them in performing challenging tasks? Will this world be void of humans and just be flooded with virtual algorithms which can perform all tasks that we can do?

Most of the human learning is through observations and interpretations and experiences that reaffirm the interpretations. This learning of humans is what machine learning is trying to mimic: learn from seen data, observe certain patterns/make predictions and perform on unseen data.

When a machine learning algorithm trains from experience and it's performance enhances with experience when bots try to interpret all human emotions of sorrow, happiness, anger, etc; what else is left for the humans?

Is Human Intelligence at stake? When artificial intelligence is spreading it's wings and trying to imitate and perform all the tasks that humans can do, is that a threat to our existence?

By,
Dr.Madhavi Parimi
HoD. Applied Sciences & Humanities Dept





Edge Computing

Gartner defines edge computing as *“a part of a distributed computing topology in which information processing is located close to the edge—where things and people produce or consume that information.”*

The unprecedented scale and complexity of data that's created by IoT connected devices has outpaced network and infrastructure capabilities. Edge computing was developed due to the exponential growth of IoT devices, which connect to the internet for either receiving information from the cloud or delivering data back to the cloud which generates enormous amounts of data during the course of operations.

Edge computing is a distributed computing framework that brings enterprise applications closer to data sources such as IoT devices or local edge servers. It optimizes Internet devices and web applications by bringing computing closer to the source of data. This minimizes the need for long distance communication between client and server, which reduces latency and bandwidth usage. This proximity to data at its source can deliver strong business benefits: faster insights, improved response times and better bandwidth availability.

Example: An internet-connected video camera that sends live footage from a remote office. When there are hundreds or thousands of devices transmitting data, it reduces quality due to latency, and increasing bandwidth cost. Here, edge computing offers a much more efficient alternative.

Evolution of Computing Models

Early computing: Centralized applications only running on one isolated computer

Personal computing: Decentralized applications running locally

Cloud computing: Centralized applications running in data centers

Edge computing: Centralized applications running close to users, either on the device itself or on the network edge

Drawbacks

Increased attack vectors: With the addition of more "smart" devices into the mix, such as edge servers and IoT devices that have robust built-in computers, there are new opportunities for malicious attackers to compromise these devices.

Requires more local hardware: Example, while an IoT camera needs a built-in computer to send its raw video data to a web server, it would require a much more sophisticated computer with more processing power in order for it to run its own motion-detection algorithms.

Edge computing is important because it creates new and improved ways for industrial and enterprise-level businesses to maximize operational efficiency, improve performance and safety, automate all core business processes, and ensure “always on” availability.

Source: (IBM), (Cloudflare), (Phitomas)



Application of quality by design for 3D printed bone prostheses and scaffolds

3D printing is an emergent manufacturing technology recently being applied in the medical field for the development of custom bone prostheses and scaffolds. However, successful industry transformation to this new design and manufacturing approach requires technology integration, concurrent multi-disciplinary collaboration, and a robust quality management framework. An aging population exacerbating the current rate of bone related health complaints combined with increasing client expectations from bone surgical procedures will drive the push for implementing new technologies for innovative bone prosthesis and scaffolds.

QbD systematic product and process design development flow chart showing principal steps

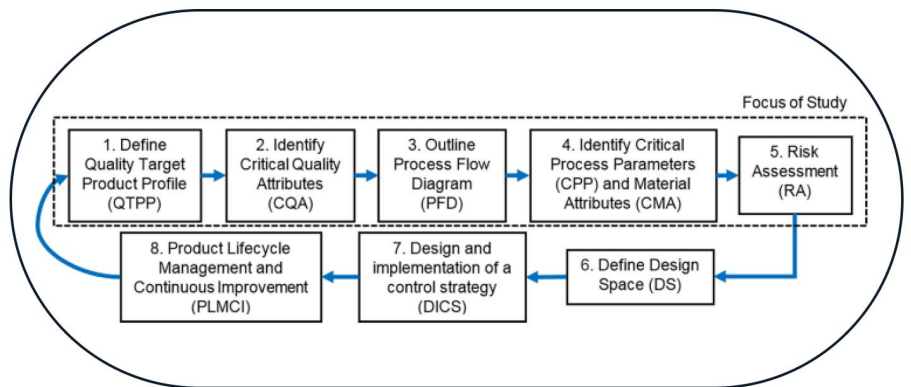
QbD Step 1: Ideal quality target product profile

QbD Step 2: Critical quality attributes

QbD Step 3: Process flow diagram of 3d printed bone implants

QbD Step 4: Identify critical process parameters and critical material attributes

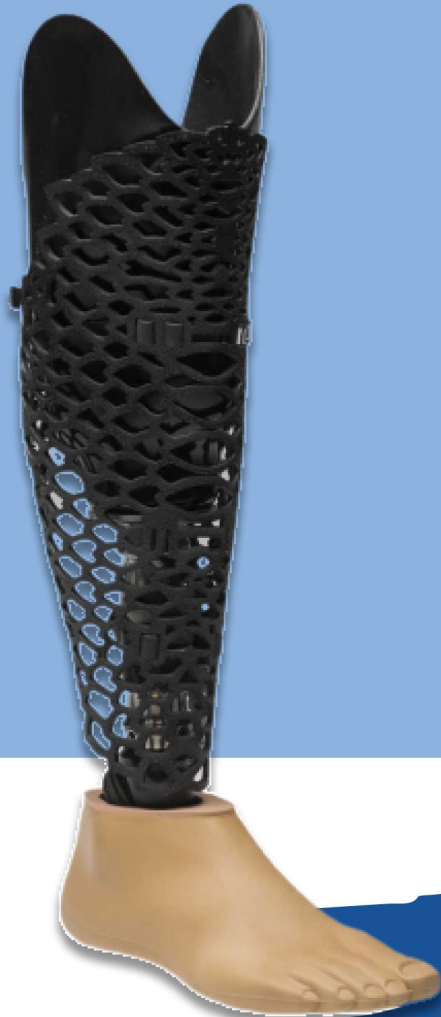
QbD Step 5: Quality risk assessment



Implications for researchers, practitioners, and industry

This early adaptation of the QbD approach can be used to assist and guide the early planning of the design and prototyping phases of any custom 3D printed bone implant in order to optimize research activities and resources, while controlling risks, improving quality and reducing costs. In addition, practitioners can benefit from this research because 3D printing and QbD are providing the opportunity to design better products utilizing their experienced input in the design process.

Source: Martinez-Marquez et al, 2018



By,
Prof.Prajakta Subhedar
Applied Sciences &
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Programming vs Coding: An Everlasting Debate

CODING



PROGRAMMING



In this era of globalization and digitalization, no profession is left untouched by the mighty influence of computers. Irrespective of your field of work you must have heard the terms coding and programming interchangeably. To the common man, it is an ordinary notion that these two terms mean the same, but in the dictionary of the software industry, these words are interpreted differently as per the vocabulary!

The refinement which is perceived by the working professionals lay out an inherent sense of what the collaborative sense of these two terms are in the development of applications and websites for their clients. So, let's dive into the difference between these two jargons.

When we interact with the computer, we usually prefer to communicate with the language we are comfortable with, but the computer only understands the binary language, that is the 0s and 1s.

80

So here is where the task of a coder comes in and he transforms the desires of the clients into a medium understandable by the computer. In plain words, they are responsible to translate logic as interpreted by us humans into the machine-recognizable code with the help of a language.

Programming on the other hand is an aspect much more evolved than coding. When software is under development, there are various phases involved in the making such as planning of the code, designing of the flow and structure, deployment of the final output and maintenance of the product in real-time. A programmer's 9 to 5 deals not only with coding but with several other field parameters such as the implementation of algorithms, analysis, understanding the control and flow of the execution, reporting any popping issues and providing the overall set of instructions involved for the performance to the computer.

The Tech-Gender Gap

We all know of the discrimination women and the LGBTQ community face in today's world. The pay-gap between men and women, and sexual harassment in male-dominated environments are some of the reasons why many women quit their jobs or never advance in their careers. The stereotype of how a woman is supposed to manage work and home is always in question. However, we also know that the gender gap is slowly vanishing but has it vanished? The Tech industry a few years ago had something known as the Tech Gender-Gap. Though it still exists today it has gotten worse from the year 1984. Studies show that women are leaving the STEM field by the age of 35. Only 21% of the women believe that the Tech Industry is a place for them to thrive. Why such a mega drop? After the global pandemic, many women had the pressure to manage home, work, and family. Talented women decided to curb their career growth and thought it wise to quit their jobs. After asking why they did what they did, many women said it was the work culture that led to the need of leaving jobs in Tech. Many companies are trying their level best to diversify the tech industry but the stereotype and stigma remain. There is no limitation when it comes to opportunities in the STEM field but there is a limitation in salary and status. Women are often expected to be career-driven and also a homemaker. This is the major factor that affects young budding girls to curb their work curve by quitting. We must make a few changes to the Tech Industry system to get women on the board and above all women of color on board. Providing a good support system at work is needed. Strict action is to be taken against sexual harassment and lewd comments. A little more nurturing to talented and potential women. Major companies have taken the initiative to bridge the tech-gender gap, but there's still a long way to go. Facebook leads the way with women accounting for 23% of technical roles, and 33% of leadership positions. Since 2018, Amazon has committed \$50 million to supporting science, technology, engineering and mathematics (STEM) programmes for under-represented communities. Countries such as Singapore, Italy and South Africa were leading the way with each having women make up about 28% of professionals with AI skills. (Marchant, 2021) Men and women are the strongest force when together. Let us help the girls of this generation and help society advance to greater heights.

By,
Rachael Manjaly
TE-COMP



	Programming	Coding
Text-book definition	Fully woven development of a complete software.	Conversion of human spoken languages into computer recognizable code.
Tools Generally Used	Analytic tools, Databases, Frameworks, Debuggers, Assemblers, Editors, Designing tools	Simple text editors such as a notepad or Integrated Development Environments (IDEs) such as VS Code, NetBeans, Eclipse
Skills Required in fieldwork	Pseudocode and analysis writing, algorithms and data structures implementation, being able to read and write complex codes.	In-depth knowledge of programming languages such as C, C++, Java, Python.
Approach	Orderly approach with attention to minute details	Hit and trial approach with no previous planning

To sum up, what I have been saying, coding is the first step in building the code during development whereas programming deals with the core execution part producing the outputs for the client and its deployment in the real world.

By now I hope you have a clear layout of what these terms mean and their impact in a professional workspace. After looking at the factors listed above, you totally must have established the distinct difference between these two technical jargons. Coding and programming both are required for the development of any software product and go hand in hand with each other.

I hope you enjoyed reading my article as much as I did writing it. I would like to lift my pen with a quote:

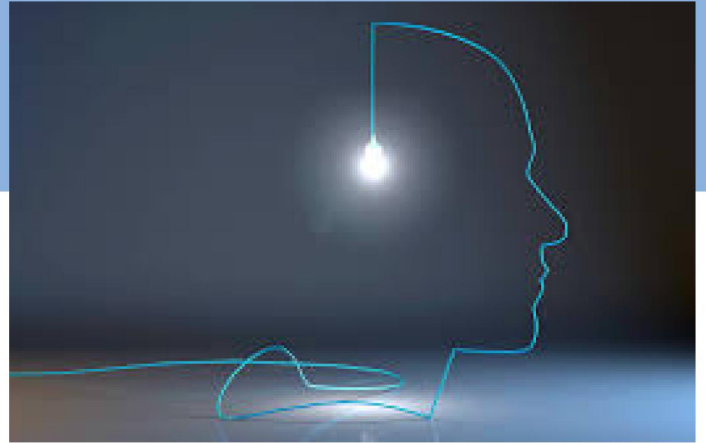
"Computer science is no more about computers than astronomy is about telescopes, biology is about microscopes or chemistry is about beakers and test tubes. Science is not about tools. It is about how we use them, and what we find out when we do."

— Edsger W. Dijkstra
(Slavin, 2013)



By,
Anurag Yadav
TE-IT

Technology and Inclusivity



Introduction

Technology is becoming an active enabler of inclusion in everyone's life. Surveys say that the pandemic has sped the adoption of technologies by several years. Be it for E-commerce or new study technologies, the past year just proved how easily we adapt to new changes and become dependent on them. These technologies have proved that inclusion is mandatory for success. Proofs are an increase in profits of more inclusive workspaces.

Let us see how technology has brought about inclusion.

Multiple Perspectives Leads To Better Understanding:

A team made up of people representing different social, ethnic and cultural perspectives represents a much more useful toolkit, one that is better suited to navigate today's complex technologies.

Ensures Inclusion Of Time and Money:

Everyone:

Technology is also being used to break down many communication barriers within a diverse and dispersed team. (Parungao, 2020)

It's enabling management to share announcements or updates instantaneously. In turn, information no longer relies on word-of-mouth or gets filtered through seniority levels, allowing everyone to receive the same information at once.

Learning New About New Culture:

Technology has given us the facility to connect instantaneously making us more accepting towards new friends and their culture. Language barriers have now been reduced drastically with the use of technology.

There have also been a few difficulties among inclusive groups.

From the business' perspective, the benefits of diversity must outweigh the time and expenses involved in managing it. Too many opinions can also be hard to sift through and waste valuable time, while potentially creating a fog around the best answers.

People with special needs can often find themselves in a minor role:

Inclusion works when every member receives equal, individualized learning opportunities to further their abilities. Because there are 1-3 peers in each group who might struggle with a disability or disorder, it is not unusual for them to be relegated to a minor role in the community.

By,
Anisha Prabhu
SE-IT





Islamic Golden Age

Muslims are a minority largely underrepresented in areas of STEM but there was a golden age we rarely know of. Even though there are nearly about 1.7 Billion Muslims in the world at the time of writing this article, the representation of Muslims in Development and STEM fields often goes unnoticed and the documentation of the number of Muslims winning Nobel Prizes for their research and groundbreaking innovations are quite low due to many external factors like the Geography, Geo-politics, Access to knowledge and Financial Reasons.

There was a time when these hindrance factors never existed and the representation of the Muslim population was at its epitome. Geography was not an issue because it is a central part of the world.

The Islamic Golden age was a period of economic and scientific prosperity in the history of Islam and the world, traditionally dating back to the 8th century. This period is traditionally understood to have begun during the reign of the Abbasid caliph Harun al-Rashid with the inauguration of the House of Wisdom in Baghdad, the world's largest city then, where Islamic scholars from various parts of the world and different cultural backgrounds had gathered to translate all of the world's known classical knowledge into the Arabic language.

(Khan, 2016) Many major themes at the time were the reason for the start of this "Revolution" for example -

CONTRIBUTION OF DIFFERENT PEOPLE:

The Muslims showed great interest in acquiring the knowledge of the world that was already known, so most of the written text in Greek or Sanskrit was translated, for a better understanding of the discoveries that were already made.

The Christian churches helped and contributed to the Islamic civilization by translating the works of Greek scientists and ancient texts to Arabic, this helped and made it easier for the Scholars to understand better.

AVAILABILITY OF NEW MATERIAL:

With paper and new writing abilities, it was easier to access information and it was the 1st time in history that it was possible to make a living out of writing and selling the work. It helped retain texts for a longer period because paper can absorb ink and it was also easier to manufacture as compared to what was done before.

SPONSORSHIP:

The funding by the governments and Caliphates helped the scientists handle their experimental expenses. Some studies and estimates show that some researchers and scientists used to earn as much money as modern-day athletes.

INFLUENCE OF ISLAM:

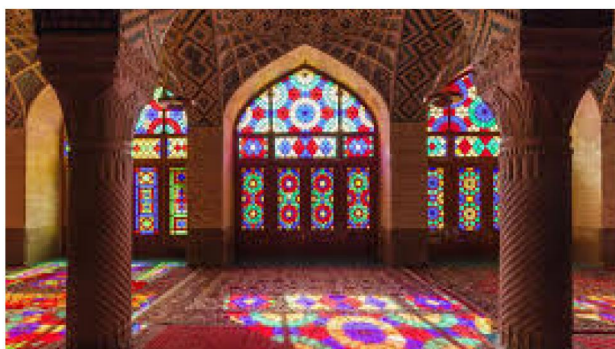
The various hadiths and verses from the Holy Quran revealing how important education is in our lives influenced many Muslims to fuel their hunger for knowledge and development.

Many major advancements were made during this period from the building of 1st ever University in the world by a Muslim Woman to the Algorithms that run our world today to laptops, mobile phones and supercomputers by the great scholar Al-Khwarizmi after which the word algorithm is also derived.

The Islamic Golden Age had a huge impact on how it shaped the world we live in today, all the knowledge that flowed in that short time was a launching point for modern-day travel, Health, and medicine, Education, Astronomy, and STEM in general.

It is only useful to recall the Islamic “golden age” that stretched from the eighth century well into the fifteenth. For example, the year 2021 will mark a millennium since the publication of Ibn al-Haytham’s Book of Optics, one of the most important texts in the history of science. Written more than 600 years before the birth of Isaac Newton, al-Haytham’s work is widely regarded as one of the earliest examples of the modern scientific method .standing and respect through engaging under-represented communities.

Many countries devote an unusually large share of research funding toward military technology, a phenomenon driven more by geopolitics than by a thirst for pure knowledge. The brightest young scientists and engineers in Syria have more pressing matters on their minds than basic research and innovation. And few in the Arab world are likely to view advances in Iranian nuclear technology with the same equanimity as developments in Malaysia’s software industry.



At a time of mounting political pressures, it is imperative to create platforms for collaboration and an environment conducive to partnerships enabling scientists, across borders, to find common solutions for global challenges. Inspired by Ibn al-Haytham, 1001 Inventions launched a global educational campaign produced with the King Abdulaziz Center for World Culture in Saudi Arabia and in partnership with UNESCO and the International Year of Light. Titled “1001 Inventions and the World of Ibn Al-Haytham,” the initiative uses the scientist’s extraordinary life to raise awareness of the importance of intercultural dialogue through science diplomacy.

It also aims to further instill pride in science heritage, promote social cohesion and encourage mutual understanding by engaging under-represented communities



By,
Hamza Shaikh
SE-IT

Gait and Motion Analysis Technology

In the advanced world, new technologies have arrived which helps people with disabilities. Gait is a pattern of walking. Many people face difficulty in walking. The study of gait through Motion Analysis technology (MAT) helps to detect these issues. Since the 1960s, the study of gait analysis has become more famous in clinics compared to research labs. The gait measurements were found helpful in the management of patients with walking disorders such as slap gait, steppage gait, Trendelenburg gait, hemiplegic gait, and diplegic gait.

Xavier's Institute of Engineering (XIE), College in Mumbai, Maharashtra, has the only Gait Analysis Lab in India to offer a highly subsidized motion assessment. The best care possible is offered to the public when evaluating gait and motion challenges. Gait analysis provides kinematic and kinetic data required by the physical therapists and doctors for choosing suitable treatment for their patients.

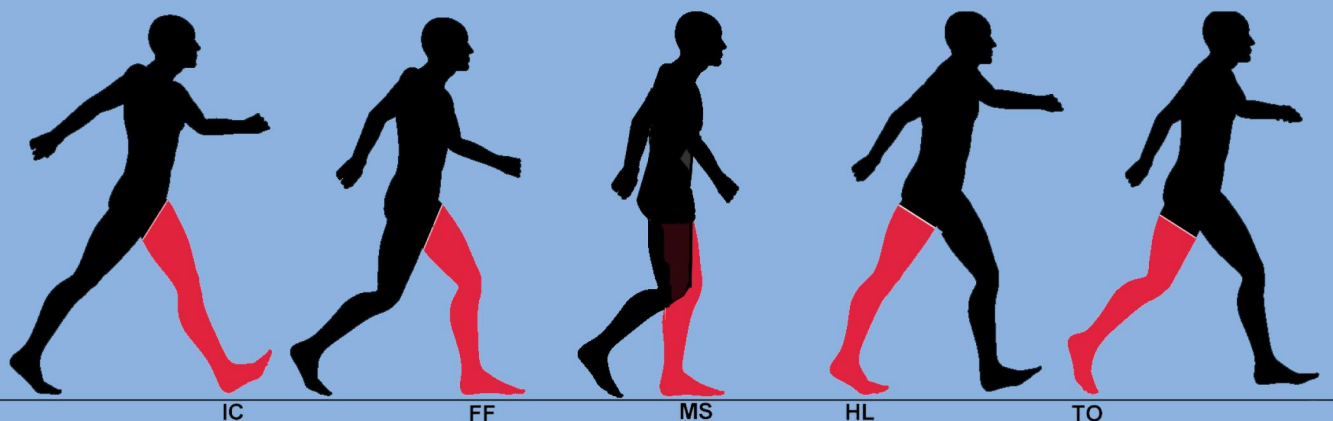
The innovations in the advanced world provide high-quality three-dimensional (3D) data on the kinetics and kinematics of walking and create a sophisticated model.

The use of technology such as computer-interface video cameras to measure patient's motion, electrodes placed on the surface of the skin to analyse muscle activity, and force platforms embedded in a walkway to monitor the forces and torque produced between the patient and the ground.

Essential to the process is the interpretation of these data by an experienced, interdisciplinary team with substantial knowledge in normal and pathologic gait. (Davis, III et al., 2002)

The Motion Analysis Technology (MAT) detects the abnormalities by checking rotation of hips, levelness of shoulders, side tilt of the trunk, and the position of head and neck symmetric swinging of arms. With the development in technology, we can detect abnormalities and help people by taking suitable treatment. The goal of clinical gait analysis is to assist in treatment decision-making for the person with complex walking problems. Clinical gait analysis is a process whereby gait characteristics are measured, abnormalities are identified, causes are postulated, and treatments are proposed. (Hadas et al., 2018)

THE GAIT CYCLE



1. APPLICATION-BASED SYSTEMS AUTHENTICATION

Application-Based Systems Authentication is necessary to avoid violation in secured protected areas, home, public security, etc.. Authentication processes [3] are carried out in three methodologies such as knowledge based (credentials, PIN, MPIN), object or token based (E.g bank card, identity card etc..) and biometric based.

Biometric authentication is used to identify a person by his/her unique features like fingerprints, face, and periocular region of eye, retina, palm, sweat, body odor and gait. These features are unique in all subjects and also remain stable for a specific period. Behavioural features are difficult to imitate. Gait recognition method includes computer vision techniques, signal analysis, motion estimation, processing the video data, and ubiquitous applications.

2. LIFE AND MEDICAL SCIENCES

Gait analysis not only helps to evaluate gait abnormalities but also influences treatment planning. The quantitative information obtained helps clinicians to formulate recommendations such as surgical procedures (osteotomy, fusion, tendon lengthening/transfer/release), tone management, physical therapy, orthoses, prostheses, and assistive walking devices. Furthermore, gait analysis can be used to evaluate the outcome of these interventions.

3. COMPARATIVE BIOMECHANICS

By studying the gait of non-human animals, more insight can be gained about the mechanics of locomotion, which has diverse implications for understanding the biology of the species in question as well as locomotion more broadly.

4. FORENSIC GAIT ANALYSIS

The forensic gait analysis can be defined as "the identification of a person or persons by their gait or features of their gait, usually from closed-circuit television (CCTV) footage and comparison to footage of a known individual." It means the main source of comparison is the CCTV footage and other videos that can be used in the analysis process. In other words, it is the visual comparison of the videos to identify the individual based on gait patterns. This knowledge has been used in the crime scene investigation, particularly to identify the criminal or perpetrator from the characteristics of the gait pattern. Many forensic cases have been solved, and the criminals have been convicted based on forensic gait analysis throughout the world

According to a new story by the Associated Press, police in Beijing and Shanghai are using a gait recognition system developed by artificial intelligence company Watix to identify Chinese citizens – even when their faces aren't visible.

5. SPORTS

Gait analysis is used to assess and treat individuals with conditions affecting their ability to walk. It is also commonly used in sports biomechanics to help athletes run more efficiently and to identify posture-related or movement-related problems in people with injuries.

By,
Mervis Mascarenhas
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87

The Father of Mobility: Ralph Braun

“INCLUSIVENESS” is an aura that enables individuals having different identities and backgrounds to not be excluded but rather, enkindle a sense of belonging wherein, all the group members are highly valued and respected. Inclusion does not only mean they belong to the team but also they are trusted to contribute to the team. Every individual has some creative ideas and many people are successful despite some difficulties in every field, right from Sports to Technology. People face difficulties and still manage to make a difference in the lives of many others. One amongst the great is RALPH BRAUN



Braun was born and raised in Winamac, Indiana. At the age of six, future inventor Braun was diagnosed with Spinal Muscular Dystrophy which refers to a group of more than 30 inherited genetic diseases that cause muscle weakness.

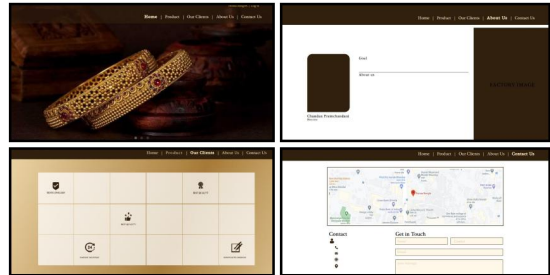
Over some time, muscles start shrinking and become weak, affecting mobility. In rare conditions, the disease can also affect your heart and lungs. The doctors did not think he would survive till his teens.

At the age of 14, Braun had to use a wheelchair which made mobility difficult, but this didn't stop his young mind to limit his ideas and creativity. Thus, at the age of 15 along with his father, he started to create a motorized wagon. When he had to drop out of college because of his difficulty in moving around the campus in a wheelchair, he decided to do things on his own. Having developed a mechanical skill from his uncles, he set out to design a battery-powered scooter. In 1963, Braun built the first motorized scooter in a self-owned manufacturing company Save-A-Step. Everyone told him that his scooter wouldn't work. But, when it came to engineering, he was blessed. He thought it was a God-given ability, and felt that he was sent to help his buddies who are disabled to improve their mobility. He was a quality control technician at an automotive supply factory where he negotiated very well for his scooter. Many people would see his scooter on the job and tell him that someone else also needed one till 1970 he was building it for them.

Up-Skilling

As soon as the pressure of HSC exams was off, lockdown due to the COVID-19 pandemic put a dampener on all our plans. Being confined to the four walls of the house gave me a lot of free time. I spent this time developing my coding skills. I started learning language which was C++ in detail. Since it was done already in 11th and 12th, I decided to take it on to the next level. It was very interesting to learn how C++ works and apply the knowledge by creating a small application based program. Just like that I learned C, Python, JAVA, HTML, CSS. After learning them I realised that these languages were not so difficult to learn but to use them according to our will was difficult.

These efforts paid off as one day my friend requested me to help him out with a client's website design. I jumped at this golden opportunity. This project would help me analyse how well I could handle major responsibility. We had to get the customer's approval by showcasing a demo of the working website.



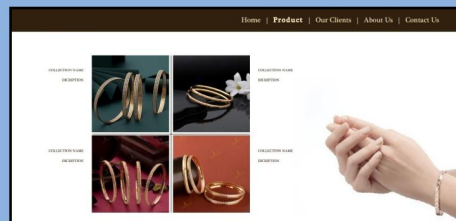
Customer requirement was as follows:-

1. Headers with fixed navigation bars having content about us, contact us, review ,etc. on clicking the page should move on respective content.
2. After the header there was an Image slider. Which will show a new product launched.
3. After Image Slider there was about us.
4. After that contact us
5. At the end in the footer there we placed a map of store location at the left side of the page along with review or feedback form.

To facilitate the front-end, we used HTML and CSS. It was all trial and error as HTML and CSS have no debugging software. This gave me hands-on practice on creating, storing and managing form data, inserting location , handling , creating connection between PHP and the database, sending submitted data to PHP script ,etc . Programming language like CSS was used for every single detail like which element or photo or text should be placed where and it's font size along with the scroll speed which was set on header buttons. A small part of java script was used for the image slider and on the buttons to view more pictures.

The task I faced hard was to do the backend work which was Database. Since I never studied php and SQL. It was a totally new thing for me. To tackle this I started learning and applying php and SQL for Database. And then after all the requirements were met then we finally sent the demo to the customer.

Our demo was rejected by the customer but this was an amazing educational experience for me as I learnt how to communicate with others, how to handle work pressure and stress, responsibility and so much more. This also taught me to value my time and not waste it. And the biggest thing to take away was always moving ahead with correcting the past mistakes. Here are some of the screenshots of the site that we created:



Later, Braun set up the Braun Corporation, his own company which manufactured wheelchair accessible vans and wheelchair lifts. He received the incredible honour “Champion of Change” which recognized him for his leading engineering solutions, education and employment efforts in technology, science, engineering and math (STEM) for Americans with disabilities.

Braun made a great impact in the world of accessibility and also left an even greater mark on mankind that, you may be different amongst people, but those differences are not limiting! Those differences, combined with the passion to succeed, can lead to greatness. Over the years, millions of physically impaired individuals have been able to create their path in life just because of one person who had vision, creativity and courage to make a difference, - Ralph Braun

I am fairly certain that half of the world will be scared and stay in darkness after simply knowing the name of such illness. Well, Ralph Braun didn't lose sight of what he came to this world for. There wasn't much of an effect on what the others thought of him. For a few smiles and for saving those few who he could, he did his part and made a difference. There are many people right here with us whose lives have some real troubles, but who still dare to face the world.

These people serve as an inspiration to all of us who run solo and still are our real heroes of the universe. From Ralph Braun, we must learn to become that bold version of ourselves and to trust ourselves to be the change instead of criticizing because it is undeniable that we can do much more because we are unstoppable. His act has undoubtedly inspired many to pursue their passion without complaining, just by dedicating some effort which will eventually lead to something great if we endure the struggles, even if it is painful now. Then one day you'll say I finally did it and I'm glad I did.

“No matter the obstacle, no matter the challenge, no matter what other people may think about you, you can rise above anything you face” - Ralph Braun

(BraunAbility, n.d.)



By,
Moses Fernandes
SE-COMP



Women In STEM

The study of science, technology, engineering and mathematics is STEM. This field got its due attention during the industrial revolution that helped Britain in the first world war. It also led to the invention of important technologies which have been of great help to humankind and are the bread and butter of millions of people worldwide. Since the inception of these fields in the 18th century during the Age of Enlightenment, scholars and policymakers have alarmingly pointed out the lower participation of women compared to their male counterparts. Many scholars have pointed out that the existence of this disparity is more of a social issue. Hence, they are also figuring out ways to shorten this gap by addressing where this discrimination stems from. The few reasons that inhibit women's participation and growth in the STEM field are as follows:

1. Negative stereotypes surrounding girls who pursue STEM.
2. Lack of encouragement from educators, parents and peers.
3. Undesirable environment in universities and workforce.
4. High expectations from women to balance career and family.

Speaking of the trailblazers in STEM, Marie Curie is widely known to be the only person to have won Nobel prizes in two different sciences. She was the scientist who discovered chemical elements like polonium and radium. Despite her success, many male French scientists opposed Marie and prevented her from profiting from her work. Another icon was Shakuntala Devi who was a revered Indian Mathematician popularly known as the human-computer who didn't receive any formal education growing up. These are the few women in STEM that we know of but there have been many whose contributions have been grossly undermined, stolen and ignored. How many of you all know about Ada Lovelace? Maybe no one, even I did not know about her. If you are using computers today, one of the people you should know about and thank is Ada Lovelace, one of the first women who foresaw the age of computers. She was one of the first programmers of the world to realise that computers could make art, produce music and writings.

She aspired to invent the multi-purpose computer which unfortunately did not come to fruition in her lifetime. Speaking of today's times, since the early 1990s, the number of women in STEM is increasing. India produces the highest share of female STEM graduates, where out of every 100 STEM graduates, 43 are women but also the unpleasant reality is that only 1/3rd of those women enter the job market which is merely 14 per cent. The gender disparity and lack of willingness of the Indian society to confront grassroots realities of it have led to this situation. The gender pay gap is one of the main reasons that deter women from entering the workforce. Even after their ground-breaking research and performance, women are rewarded and paid lesser in comparison to their male counterparts which not only discourages them but also stalls their careers. Faculty positions in science are also skewed by gender as only 15 per cent of them are all constituted by women. This disparity also persists in research programmes where women account only for 33 per cent of all PhD awardees.

This disparity is needed to be changed as all of the population can bring change at a bigger level. More the number of brilliant minds, more is the progress. We can bring change and increase number of women in STEM by exposing young girls to STEM fields and educating them about different opportunities that the world gives. Breaking stereotypes amongst people that only men can have a technical/ scientific/ mathematical mind and only they can excel in STEM fields is a much-needed step. Supporting and encouraging women to participate in these fields can really boost their confidence. Societal pressure on women for marriage, motherhood, balancing work as well as home demotivates them and takes them one step away from entering into workforce. This patriarchal barrier needs to be broken.



Thanks to the various feminist revolutionaries and movements, we women have the right to vote, right to education and the encouragement to enter these fields with our heads held high and the guts to claim what is rightfully ours. I couldn't be more thankful for the women who came before me and paved the way for us. In my lifetime, I will be resilient to make sure that the coming generation of girls have it better than me.



A Timer Circuit

As work from home is becoming the norm, domestic consumption of electricity has skyrocketed and so has power wastage. On average, about 30% of the total electricity generated is wasted which comes to over 3 billion units of power wasted annually. As the world is going all-electric, reckless use of energy is the major problem that we face. The proposed circuit will prove instrumental in tackling this issue.

This design shows how the Timer can be used to measure the pulse width of a simple 555 in monostable mode.

The delay time is decided by capacitor C1 & potentiometer POT that has to be checked either by simulation or by testing first on a breadboard.

When the switch is pressed, the trigger pin is grounded thus activating our timer. The pin 3 signal output is high, the relay is turned ON and the load is connected to the AC supply. After the time completes (capacitor discharges) the IC's pin 3 output goes OFF and the connected load is switched OFF.

The delay time is varied by varying capacitor values and adjusting the Potentiometer POT. If we use 1000µf and adjust the Potentiometer at 1 MegaOhm then the time is around 30 minutes (maximum time with 1MΩ and 1000µf).

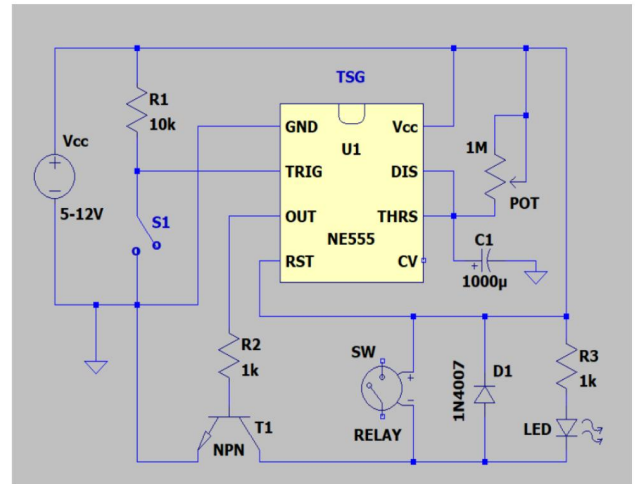
We can achieve the desired time period using the formula:

$$\text{Time}(T) = 1.1 * R1 * C1 \text{ seconds}$$

I used this circuit to turn off my water purifier as the time taken for the earthen jar (Matka) to fill was fixed, there was no need to change the time repeatedly. So, I used a Preset instead of a potentiometer to decrease the overall footprint of the circuit.

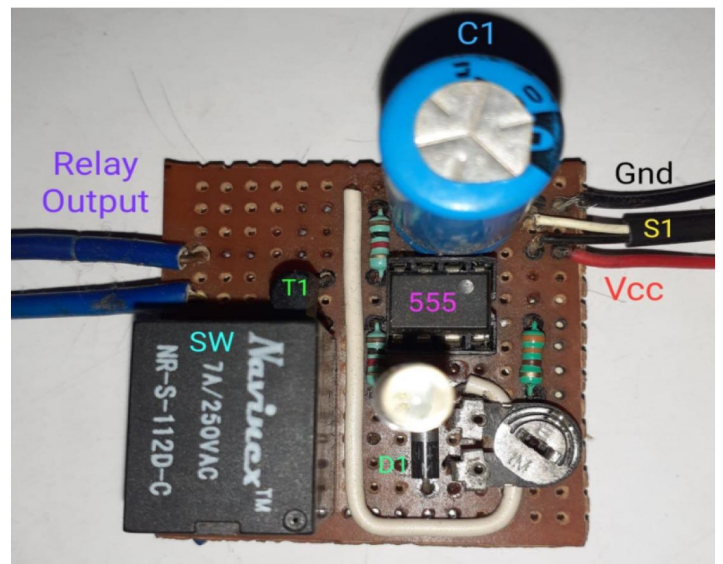
For more details on the monostable mode of 555 IC checkout:

J. S. Katre, "Special Purpose Integrated Circuits" in Linear Integrated Circuits, Pune, TechMax, 2016, Ch. 7, pp. 7.5 - 7.7.



Components List:

NE555 IC	
8-pin IC base	
Capacitor	(1000µF)
Resistors	(2 x 1KΩ, 1 x 1KΩ)
Potentiometer/Preset	(1MΩ)
NPN transistor	(BC547)
Diode	(1N4007)
Relay	(5-12V)



By,
Tanmay Gokarn
SE-EXTC

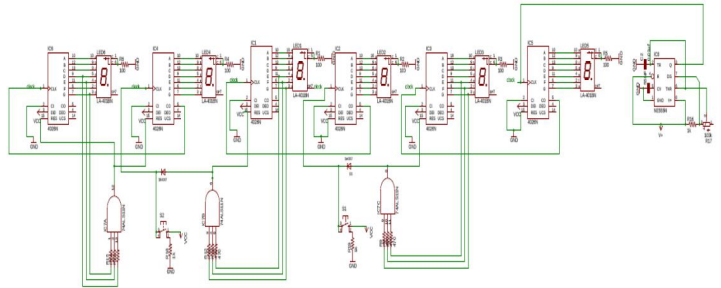
24-hr Digital Clock using IC4026 and 555 timer

Project Title: 24-hr Digital Clock using IC4026 and 555 timer

Components Required: 7 Segment LED Display, IC CD4026BE, NE555 Timer IC, 7411 Triple input AND gate

Project Made by: Aditya Waichol, Abhishek Singh, Rahul Vijan.

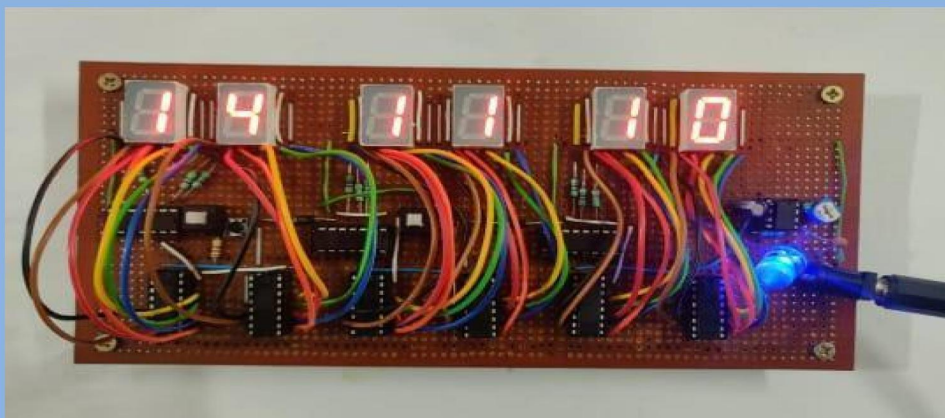
Circuit Diagram:



Working:

1. The working of the circuit starts with the 555 timer where it was wired as a monostable Multivibrator. The 555 timer generates a clock pulse after a second and output of 555 is connected to pin 1 of IC 4026 which is a seven segment display decade counter which is used to drive a 7 segment display with input clock pulse. Here the clock pulse was obtained from the monostable multivibrator and fed into the pin 1 of first ic 4026. Pin 2 was usually grounded since giving a high signal to this pin will inhibit the input clock signal to pin 1 and pin 3(Enable Clock) is always taken High.
2. Initially when the circuit is switched ON the 7 segments will indicate "00:00:00" count and as soon as the negative trigger is given to 555, high pulse will be obtained from pin 3. The high pulse is fed to the first IC and therefore it increments its count with each clock, displaying 1 to 9 in its seven-segment display. As soon as 10 counts are incremented by IC a high to low signal is obtained from its pin 5 which indicates the completion of ten increments.
3. The pin 5 is connected to the clock pin of the next 4026 IC. Therefore, whenever 10 counts are completed by the display, the high to low signal at pin 5 will feed a single clock pulse input to the second IC and therefore the corresponding 7 segment will be incremented by one value. For a digital clock we must reset second IC when it reaches the number 6 because we want seconds count upto "59" therefore we used IC 7411 (Three input AND Gate). Similarly, the fourth IC will count from 0 to 6 and then the value in the fifth IC will be incremented by one. This handles seconds and minutes of clock. Now for hours we must reset the fifth and sixth IC when the number reaches to "23" so we put one more three input AND gate. (Hassan, 2018)

Output:



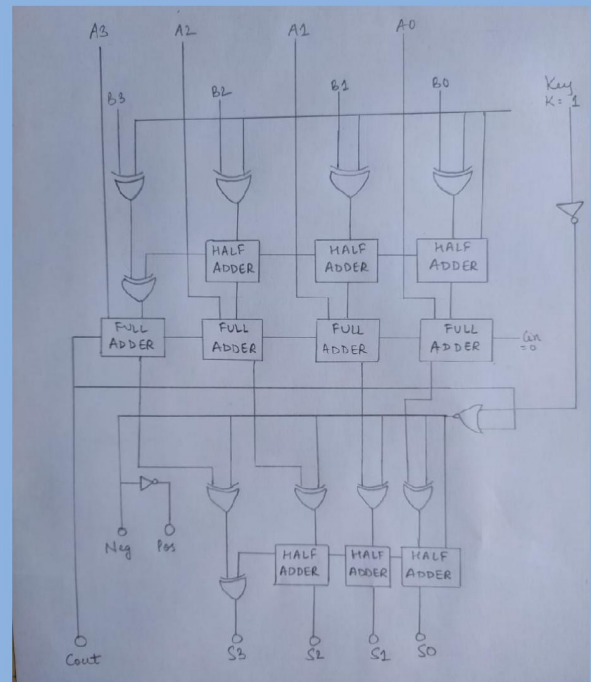
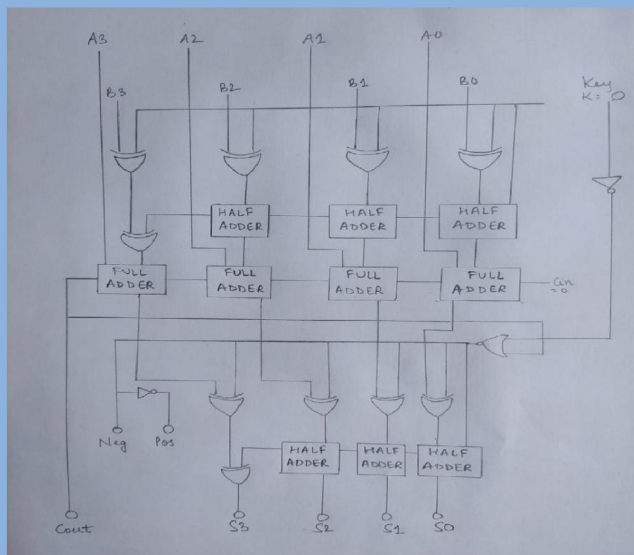
4-Bit Binary Calculator

Project Title: 4-Bit Binary Calculator

Components Required: 74HC08 AND Chips, 74HC86 XOR Chips, 74HC32 OR Chip, 74HC04 NOT Chip, 74HC02 NOR Chip, 4 bits -DIP Switches, 2 bits -DIP Switch, 1kΩ Resistors, LED's, Battery, Connecting Wires.

Project Made by: Adwait Joshi, Pragathi Shetty, Nyuonika Shetty and Tanzila Shaikh

Circuit Diagram:



Working:

1.Addition: Here if $K=0$ then it will perform the addition operation in the circuit. Here we have taken K as the common input to one of the Ex-OR gates. The second input to the Ex-OR gate is taken as the binary numbers (B_3, B_2, B_1, B_0). After the Ex-OR gate, the result is taken into as one input of the half adder. The other input for the half adder is taken directly as an input (A_3, A_2, A_1, A_0). Then the full adder takes both of these inputs and hence then performs the operation of adding two numbers. The input bit we have taken as logic 0 because we want the full adder to depend fully on the Ex-OR operation of its two inputs.

A binary full adder is a multiple output combinational logic network that performs the arithmetic sum of three input bits. Since the half adder cannot respond to the three inputs, the full adder is used to add three digits at a time. It consists of three inputs, in which two input variables represent the two significant bits to be added, labeled as A and B , whereas the third input terminal is the carry from the previous lower significant position and labeled as C_{in} (K in this case). The two outputs are a sum and a carry outputs which are labeled as Sum and C_{out} respectively. (Al-Ebadi, 2017)

For performing the addition of binary numbers with more than one bit, more than one full adder is required depending on the number bits. Since here there are 4 bits, we have repeated the entire circuit three times. So the C_{out} we have taken as C_{in} for the next full adder and so on. The final outputs are presented as final C_{out}, S_3, S_2, S_1 and S_0 .

2.Subtraction: If $K=1$, then it will perform the subtraction operation in the circuit. As done in addition, K is taken as input to one of the inputs of Ex-OR gates. The second input to the Ex-OR gates will be taken as Subtrahend (B_3, B_2, B_1, B_0). This operation will be equivalent to 1's complement of the binary input. Now after this, the 1's complement is further sent as an input to the half adder. Here one of the inputs of half adder is key K (here it is always logic high or 1). So this half adder indirectly does the operation of 2's complement. Now in 2's complement further addition is done by full adder. Here also we have kept the carry input as logic low for the same reason as that in Addition Operation.

Here in subtraction we have two cases.

The output will be positive

The output will be negative.

So here we have added a NOR gate such that it depends only on the Carry generated from the full adder part. For the second case, we have to take the 2's complement for the answer, hence we have again redesigned the same Ex-OR and half adder operation to do that. Similarly, as a 4-bit addition we are doing 4-bit subtraction, we will repeat the entire circuit thrice.

3.Full Adder: For the purpose of this experiment a full adder is used. A full adder consists of 2 Ex-OR gates, 2 AND gates and a single OR gate.

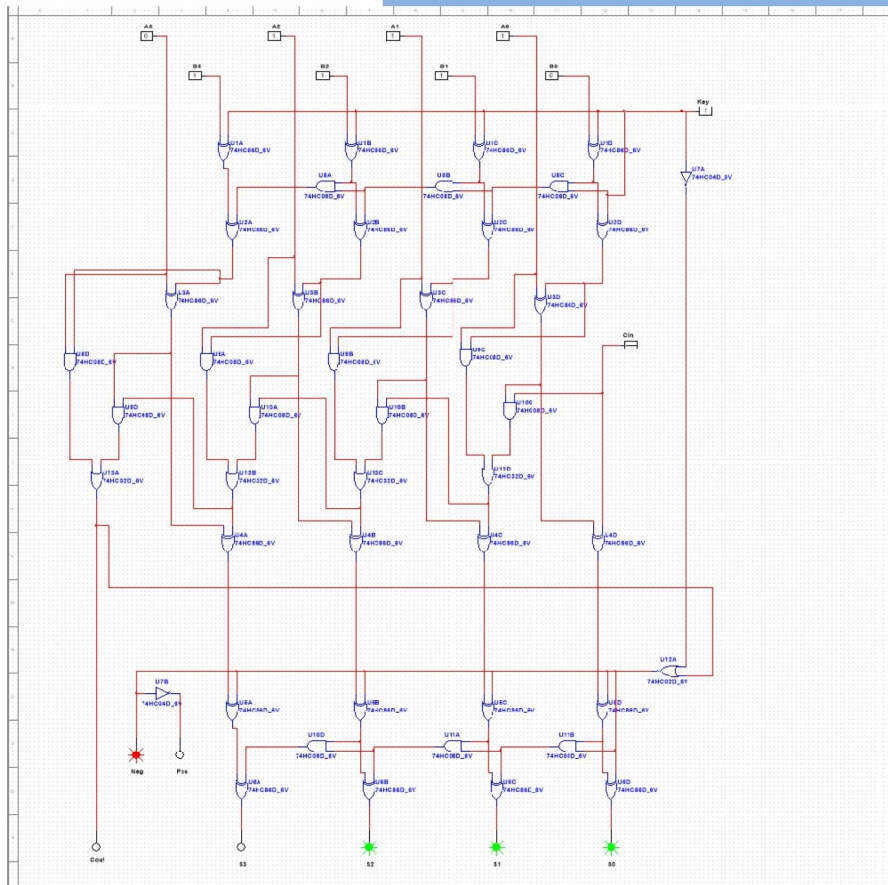
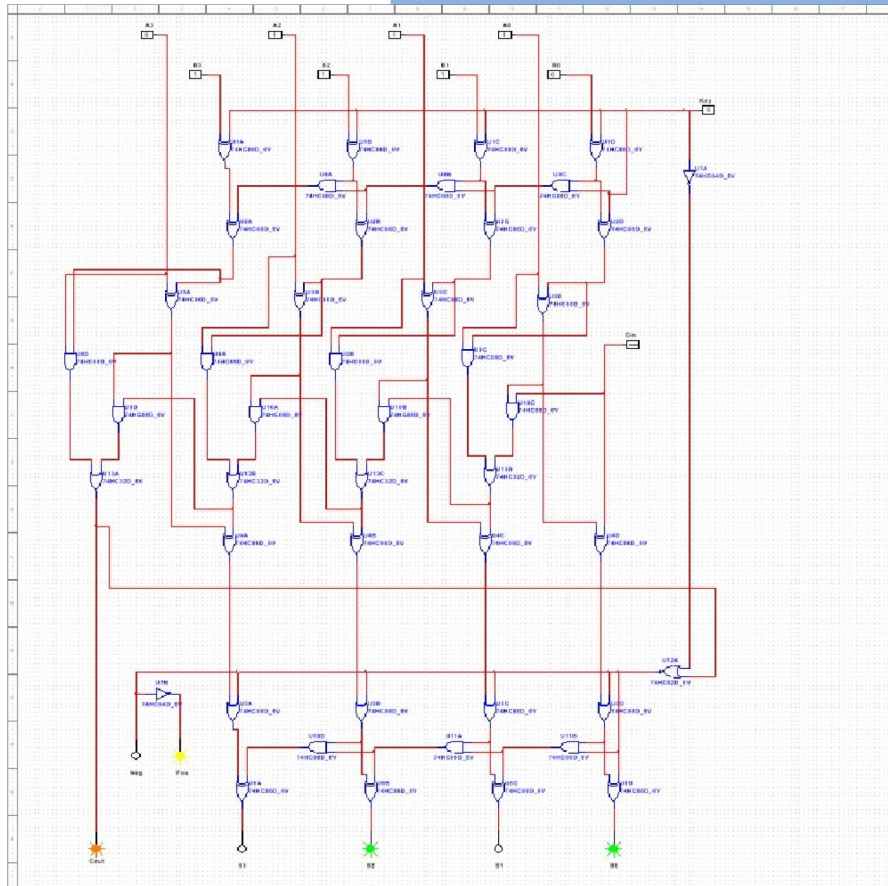
I. Ex-OR gates- The Ex-OR gate is short for exclusive OR. In a regular OR gate, 0 and 0 equal 0, 1 and 0 equal 1, 1 and 1 equal 1. In an exclusive OR gate, 0 and 0 equal 0, 1 and 0 equal 1, 1 and 1 equal 0. This is important because when adding 1 and 1 in binary you get 10, so the one's place has a zero, something that can't be done with a basic OR gate. (Circuit Diagram Of Calculator Using Logic Gates, 2016)

II. AND gates- So now, when you add 1 and 0, you get 1, but when you add 1 and 1, you get 0. In order to fix this anomaly, we need to be able to have 1 and 1 equal 10. This error will be fixed by AND gate. As the name implies, an AND gate equals 1 when $A=1$ AND $B=1$. This is tied in parallel with the XOR gate and is the carryout bit, so that when you add $1+1$, we can get 10.

III.OR gates- There is a random occurrence of 0 and 1 in previous AND operation. So we are ORing it together to get one fixed output.

The full adder works by putting inputs A and B through an Ex-OR gate, then taking the output from that and Ex-ORing it with the Carry-in. This gives you the bit output. To make the Carry-out, you have to put A and B through an AND gate, and put the output of the A Ex-OR B gate and the Carry-in through an AND gate as well. When you put those 2 outputs into an OR gate, you get a Carry-Out bit. (Circuit Diagram Of Calculator Using Logic Gates, 2016)

Output on Multisim:



To-do List

ConneXIEn '22

This application was created to help me solidify my hold on the concepts of HTML, JavaScript, and CSS. It is a bare-minimum to-do list with an overly responsive and animated layout. You can add a task, edit tasks, delete tasks, filter tasks, sort tasks, and finally search for any task. This application supports legacy browsers like Internet Explorer while keeping the layout clean and neat.

This single-page application works on 4 CSS and 2 JavaScript files. Here's an outline of the internal mechanisms of the application.

The structure of the 4 CSS files are as follows:

Common: CSS, used commonly by the entire project.

Targeted: CSS, which targets an element or an aspect.

Animated: CSS, related to animations.

Media Queries: Reactive CSS, based on properties or values.

For the structure of JavaScript files:

Features: JavaScript functions or listeners which add features to the project.

Control: JavaScript functions, classes, and listeners, which control the entire application.

A peek at the functionality of JavaScript files:

Example Feature: Multi-lined text inputs, made possible by manipulating the height based on the font size.

Example Controls:

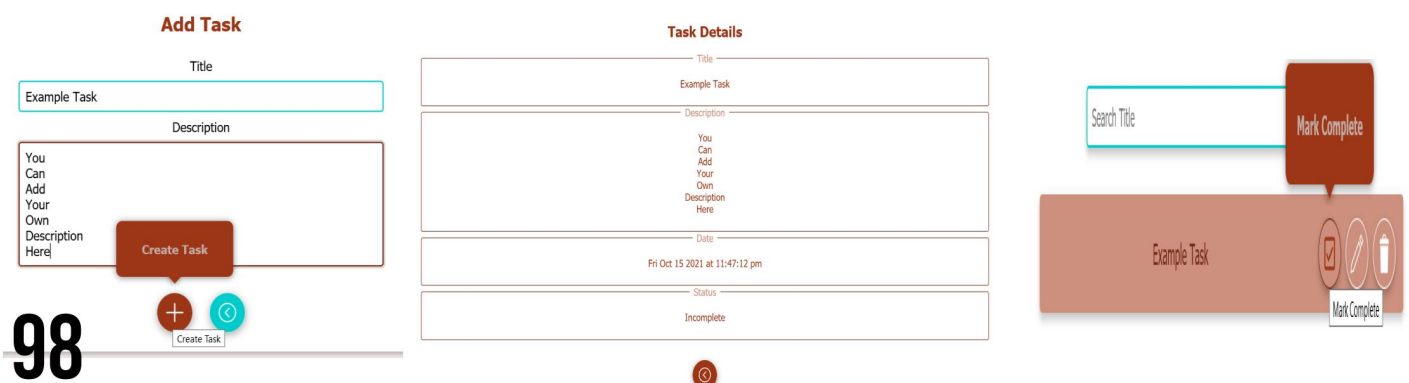
Filter, made by a combination of two functions. One sorts by date and another by type.

Search, compare the To-do contents with the given input and re-render the list.

Finally, the option sets the filter and search settings.

Why use Frameworks and Libraries? To-do List answers this question quite well as an application made using pure HTML, JavaScript, and CSS. The reason we use third-party frameworks or libraries is to save time as well as to make ourselves efficient at the same time. A lot goes into the making of an application. Security, state management, component interaction, layout integration, and much more are crucial in any application design. Using a Library or Framework gives structure to an application. While applications may use raw scripts and files instead of Libraries or Frameworks, the required planning and workforce for management will be significantly higher than using them.

~ Celestyn Kinny



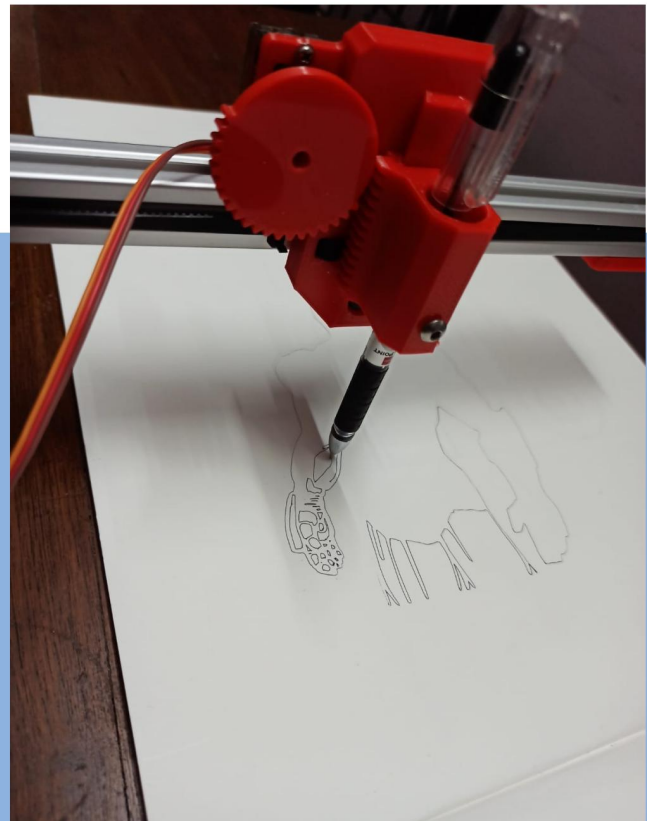
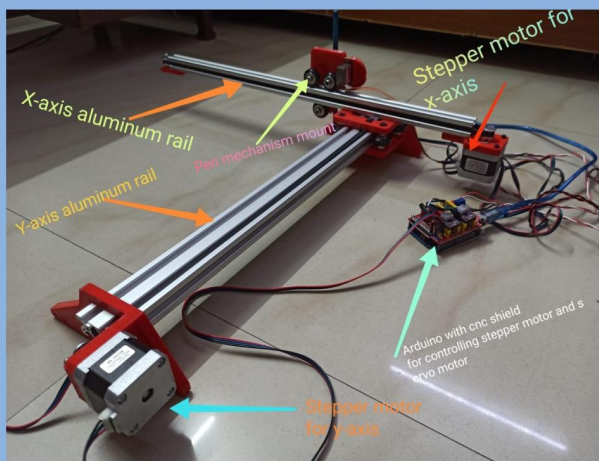
CNC DRAWING PLOTTER MACHINE.

List of components:

1. Aluminium profile 40x20 500mm for the x-axis.
2. Aluminium profile 20x20 500mm for the y-axis.
3. 2x NEMA 17 stepper motors for controlling the back-and-forth movement of the x-axis and y-axis.
4. V-wheels for smooth movement of plates on the rails.
5. SERVO motor for lifting the pen.
6. CNC shield attached on the Arduino (HAT) hardware attachment on top. It is used to control the stepper motors and servo motors.
7. A 12 volt and 5 Amps power supply for running the machine.

Purpose of project:

To demonstrate the automated movement of a pen with XY plotter machine using stepper motors and Arduino microcontroller board which can be used to plot any text or image on paper. To provide exceptional results at a fast rate. The speed and accuracy of the machine are much higher than what we can achieve manually.



Working of CNC drawing plotter machine:

The machine uses aluminium profiles as guides to enable linear movement in the x-axis and y-axis with the help of the stepper motors. A servo motor is used to control the up and down motion of the pen. The working area of the machine is 370mm on the y-axis and 300mm on the x-axis.

Mechanical build:

The mechanical build of the machine includes two aluminium rails of 500mm length each for the x-axis and y-axis of dimensions 20x20 and 40x20 respectively. 2 3D printed gantry plates are used to hold the y axis profile off the ground, two more plates are used as intersection plates to attach the x-axis profile to the y axis profile at 90-degree angle.

The V wheels are also attached to the plate for linear movement.

Furthermore, the stepper motor and movement plates are attached with 3D printed plates. Movement is enabled via a 2mm timing belt and pulleys. 20 teeth pulley is attached on the stepper motors and idler pulley on the opposite ends to have adequate tension in the belt.



Electronics:

The electronics of the machine include 2 NEMA 17 stepper motors controlling the movement of the x-axis and y-axis back and forth.

A servo motor is used which controls the position of the pen.

The main controller used is an Arduino UNO microcontroller board.

A CNC shield HAT (Hardware Attachment on Top) is attached on top of the Arduino UNO to enable it as a CNC Controller.

2 x DRV8825 Stepper Motor drivers are used to drive the stepper motors. These drivers enable 1/32 micro-stepping.

The complete system is powered using a 12V 5Amps power supply.

Software:

The following software and firmware have been used in the machine. The software used is open-source and free to use.

Inkscape

Universal G-code Sender

GRBL

Inkscape is a vector graphics software that is used to convert any text/ image into g-code using an extension UGS or Universal G-code Sender is used to establish a serial connection with the machine. Simply select the COM port of Arduino and connect the machine. Then the G-code is loaded in UGS and a command is sent to the controller to run the G-code.

The Arduino is loaded with an open-source G-code Interpreter called GRBL, which converts the G-Code into movement commands which the drivers receive and enables movement in the x and y-axis.



Lab Bench Power Supply

When I was a rookie, I used AA batteries connected in series to power my electronics. This setup satisfied the basic needs but after a point when I started to make complex circuits, it wasn't just feasible. The batteries couldn't suffice the high voltage and current requirements.

On surfing the internet for a conventional variable lab bench power supply, I realized those were very expensive! So, I started researching for a cheaper alternative and I came across this cheap and efficient solution. The advantage was it had a greater current delivery capacity than the commercial ones.

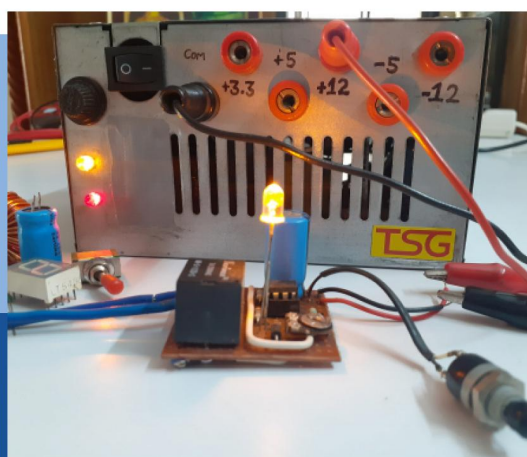
The ATX power supply unit is used in Desktop computer CPU. This unit has fixed voltages for: +3.3V, +5V, +12V, -5V, and -12V. Play with the different voltage combinations to achieve various voltage levels. Adding a Buck/Boost converter at the output will help in achieving specific voltages required for some circuits. A dummy load resistor of 10 Ω 10W is used for steady output for low current usage.

Component's list

- i. 5 x Red Binding post (for +3.3V, +5V, +12V, -5V, -12V)
- ii. 1 x Black Binding post (for ground)
- iii. 1 x 10 Ω 10W power resistor (Dummy load)
- iv. 1 x Switch
- v. 1 x Fuse
- vi. 1 x Fuse Holder
- vii. 1 x 3mm LED
- viii. 1 x 220 Ω resistors (for the LED)

Procedure:

- Identify the different voltage levels of the colour coded wires with the help of the chart provided on the PSU enclosure.
- Add a switch between the power OK wire (green wire in my case) and ground.
- Between the power rail on which maximum power is there (refer chart on enclosure) and the ground, connect a power resistor which will act as a dummy load. (At least of 5 Ω 5W for 5V rail or 24 Ω 5W for 12V rail)
- Segregate the remaining wires according to the voltages and connect them to the binding posts.
- Connect a LED on the 5V USB rail.



By,
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SE-EXTC

ENGLISH SECTION



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*When you write, you taste life twice,
In the moment and in retrospect.
If you wait for perfection,
You would never write a word!
Because writing is always expressible
Even when thoughts are blurred!*

“Mental health in the global pandemic”



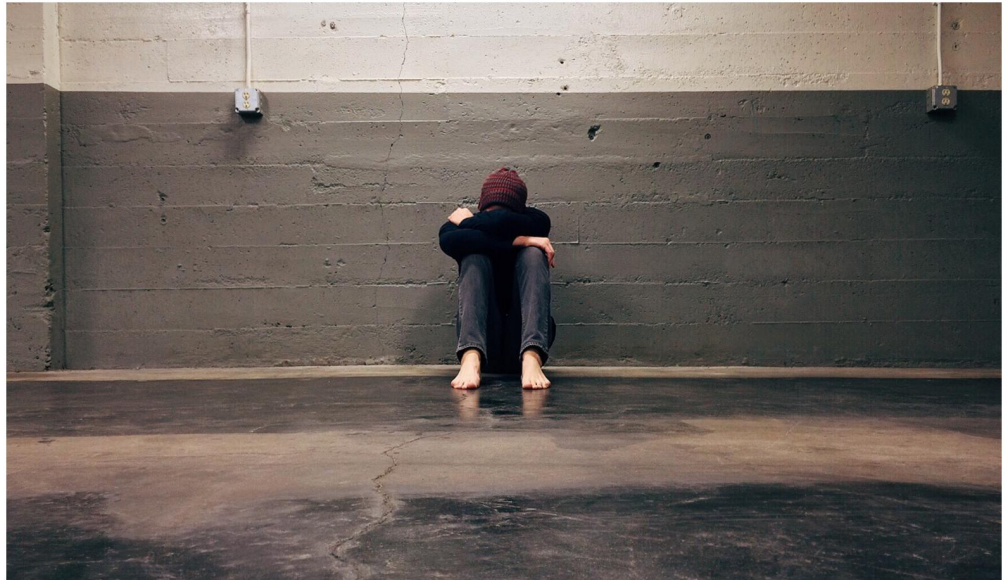
Did you all ever think that a small virus, tinier than the smallest particle of dust can change your life forever? The coronavirus commonly known as COVID-19 hit our lives by December of 2019 and that was the beginning of the historic moment that changed everything. We, the people who were living our lives normally till a day before we were suddenly locked up in our own homes.

22nd March 2020 was when many of us fellow Indians experienced their first-ever curfew followed by the lockdowns and accompanied by section 144. Mumbai Locals were shut down for the very first time in its history and that's when people realised that “it was” a big deal! The government wasn't facing only one problem nor it was the only one facing problems. But out of all the things that were going on, there was one particular thing that demanded attention on an urgent basis, and that was the mental health

of people during this period. By nature, human beings are social animals, and they need to interact with other human beings to survive, which was quite difficult during the lockdown. But lockdowns were the need of the hour in order to stop COVID-19 from spreading like a wildfire. Lockdowns prevented a huge loss of life but with it came other problems at an individual level. These problems were nothing else but trying to maintain mental health on an individual level. During these times, there were many factors that were deteriorating like financial security and health, increasing stress, fear that affected social life as well. Social life at an individual level was affected on a large scale. People were not able to interact with their friends and were spending most of their time on social media platforms like Instagram, Facebook, YouTube which resulted in an increase in stress because of the human tendency to compare.

Generally, we believe what we see and tend to compare ourselves with the same thing causing stress. But what we don't think is that we are always seeing what the other person wants us to see and not what should be seen. Yes, people! That is the description of social media in short. We get stressed and demotivated by seeing different people taking up their hobbies, learning and trying new things but what we don't know is the reason; they might be lonely and hence they would want to engage their time or that they might have lost their job so they wanted to learn something new.

On the other hand, people were really recovering as they got the "much needed" break. Parents started spending time with their children and learning the new things of the new generation, while children started connecting with their parents recounting all the old memories. Families reunited, time was spent together and people definitely learnt the



importance of togetherness. But then there were some cases or some phases where there was stress caused due to the same company. Stress, and by the same company? Yes. We have always been taught that anything in excess is a poison, be it money, food or even the company of people. For more than six months we were stuck with the same people with zero interaction with any other human being. There were differences in opinion which led to arguments and then to fights. As a matter of fact, there were many marriages that took place during this pandemic but there was an equal number of divorces that took place too.

Mental health on an individual level is a pretty huge thing. And in a country like India, talking about mental health is still kind of a taboo. People tend to understand the stress but never realise the anxiety that comes with it. Medication for your brain or therapy for your stress is always considered to be the condition of mentally challenged people. People understand mental illness but don't understand mental exhaustion or mental disturbance. In the end, everything comes down to, "Arey Uska Dimag thik nahi hai". After this global pandemic if there is one thing that we need to learn, focus or truly understand is that nothing is greater than our own peace of mind, our own mental health. The Gen Z of India is more aware of this fact and is working towards its awareness in society too. To conclude in a nutshell, we need to make mental health a priority and talking about it not a taboo.



By,
Priya Harshe
SE EXTC

“Victims of Patriarchy”

As of this moment, many women are in the kitchen doing the dishes or cooking the next meal of the day while men are probably lounging on armchairs reading a newspaper or working on their laptops; their teenage daughters helping out in chopping vegetables while sons play video games. These gender roles are alright if they're carried out by choice. However, if these tasks are done out of obligation to fulfill society's expectations, it certainly reeks of troublesome patriarchy.

Patriarchy is a very real thing that does exist in our society today. In certain families, it shows up in subtle forms whereas in others, every action or decision is underlined by male dominance. A girl child is received into the world with a good amount of negativity from her family. This, I must say, has changed in many modern families but is no doubt still prevalent. A woman is 'under the care of' a man all her life. As a child, under her father's care; when she is 'married off', her husband is expected to take care of her and in her old age it becomes her son's responsibility. Is it because she isn't independent? Certainly not. It is because women, in general, are perceived as dependent on men even if a woman might actually have the capacity to look after herself and raise her children all by herself.

Women are required by society to leave their families behind and move into their husband's homes to live with their in-laws. She is expected to adjust to the mannerisms of her husband's family and have no complaint about having to make sacrifices. The dowry system still exists in India despite being made illegal in 1961. However, the parties do shy away from practicing it openly. The bride's parents give money to their son-in-law's family in the name of a 'wedding gift'. Sometimes it isn't spoken about before marriage and if the bride's parents fail in

giving an amount, they are humiliated to no extent. According to India Today, as many as 21 lives are lost to dowry every day in India.



Men consider themselves to be superior to women and those who do not do so are put down in society. This superiority is exerted in many forms, the worst being rape. Sexual abuse has more to do with the sense of power that the perpetrator achieves than with the sex.

Patriarchy is hurtful to men too. Boys tend to ignore sexual abuse possibilities or any sort of threat to their safety to prove their masculinity. Men are made to think that they are not 'man enough' if they cry or express emotions. Stay-at-home fathers are considered weak for allowing their wives to bring home income.

Most of us are victims of patriarchy with its deeply embedded roots. Do we really want our daughters to be treated as less than by their male counterparts? Do we wish for our sons to be blind to potential danger only to be man enough?



~By,
Merisa Mascarenhas
SE COMPS

“Soldier in Silver Armour”



*Every time the sun goes down
Am I ready for it to disappear yet?
I struggle in the world of highs and lows
And never end this tide of smiles and woes
The worst of them all is the tide I must bear
The tide of who I'm supposed to be
Rather than who I truly am.*

*It takes courage to rise up in my own eyes
Months of weeping to forget my worst tide
Bravery to stand firm in my choices
And deep understanding to listen to my inner voices
Kin often never remember how well I rise
But always remind of 'how hard I fall'
Being raw is always misjudged
Being different is always questioned
But being raw is fun and being different is life's disguised
pun In all this have you ever wondered
What I've wanted to become?*

*I'm a soldier in silver armor
Stronger than any other man
Men don't understand how much I can give
But only focus on what I can't give
I'm misunderstood as bossy
My ideas are too high and unnecessary
My talent is too much and not needed ...*

*But through the worst storm
I speak my mind and hold my ground
Through sleepless nights and tired eyes
I pick myself up and put on my silver armor.
I will be the support I've always needed
I will be the person I never had through my tide
I will walk through this road with my head held high I will
live my life the way it's right
And never forget that things do get bright.
It's beautiful this silver armor
I'm proud to be me
We all have that silver armor
It's only for us to see.*

*~By,
Rachael Manjaly
TE COMPS*



“Holes & Illusions”

For millennia, ships have been sailing across the seas, bringing glad tidings, exotic items, and also armies and death. They continue to be an integral part of today's society, and yet, even a simple tiny hole can sink these magnificent constructions. As it has been famously quoted, “Ships do not sink because of water around them, ships sink because of water that gets into them”. Though the saying may very well be overused, a hole can indeed sink a ship that can sail across the seven seas, and similarly, negativity can destroy even the most well-organized mind. For the sake of convenience, let us consider the broad spectrum of negativity as one single doubt. Simple enough to comprehend, yet this one tiny doubt can wreak large amounts of havoc on our minds. Doubt rarely remains singular, and gradually we have large amounts of worries and doubts all bombarding us until we finally cave in. The culprit was one original doubt, but look at the catastrophic damage it has now caused.

Doubtless, we have our plans and goals which we strive to achieve. We plan and organize and wait patiently, and when the moment comes, we reach forth and grab victory. But if at that crucial moment, this one doubt creeps in, and others behind it, we hesitate for a moment and the moment has passed, the victory lost. All the planning, gone down the drain. Imagine a singer, who mesmerizes with her song, but at that one precious note, falters and ruins the melody. Imagine the athlete, who has spent months preparing for his victory and at the final moment loses focus because of one small insecurity. This is not exclusive to those times. Imagine the painter who spends hours on an absolutely beautiful and captivating painting and in the end, decides that it is not worthy to see the outside world. Sometimes this may even spiral into anxiety, where something as simple as wondering whether you have left a switch on, can morph

into images of your loved ones dying in a fiery explosion.

As Master Oogway put it, we must lose the illusion of control. We believe that we can have control over everything in our life. However, the flip side to doing this, is that we also take on the burden for everything in our life. We try to do everything, even something which is assigned to others, simply because we cannot trust them and their control. We must do everything, or it will not be right. This thinking had shocked Master Shifu for a long time, taking on Tai Lung and his mistakes as his cross. He believed that only he could take care of Tai Lung, even though he might very well die trying, as an atonement for his mistakes. It is only when he relinquished control to Po, that he could finally achieve inner peace. We can draw direct parallels to this from our life as well. The illusion of control is what leads to perfectionism, which implies that we can control the judgment of every single person on the planet.

This is not what leads to inner peace, as you may very well have understood. Yet we insist on continuing this madness, and in the process, keep hammering holes into our ship. When we strive to be perfect, every mistake and blemish creates a new doubt in ourselves, and the holes in the ship keep on increasing until we sink, that is, until we finally give up and walk away.

We have to learn to let things go and to control what we can. We just need to learn the lesson that perfectionism does not exist, and we are but striving for a mirage. Let yourself be bad at something, let yourself be stupid once in a while, and let go of the strict control you keep on your life. Certainly, bad things may happen, maybe you will be affected, but remember that whatever happens, it all happens for a reason in the end, and keep moving on, sailing forward, despite the storms and obstacles in your way.



~By,
Angelica Sebastian,
TE COMPS .

“Superheroes!”

Well, we all know what superheroes are capable of doing, right? A superhero is a person who gives people hope, a fighting chance, a sense of motivation to get through a difficult situation which would otherwise seem bleak! For the past year and a half, we all have been confined to our apartments (homes) which is very depressing, isn't it? We are facing demons like mental health, loneliness, depression, fear, stress and many more! We all are fighting our battles, our struggles but it wouldn't be possible without the people who care for us, the people who lift us while we are down, the ones that give us hope in these scary times, these are our superheroes! I urge you all to find your heroes, appreciate them because they are the ones who will give you hope, the motivation to live life like it's meant to be! If you ever feel lonely talk to someone, share your problems, believe me you will definitely feel relaxed and light hearted and please be a hero in the lives of the people that matter to you, spread the joy and happiness because in the end bringing a smile on a person's face is the most satisfying thing ever, feel free to text me because you never know I could be your hero or you could be mine!

I would like to leave you guys with a quote to ponder upon-

“Life doesn't give us purpose, we give life purpose”

~The Flash

Thank You!

Many people have been my superheroes and I hope I've been theirs too....

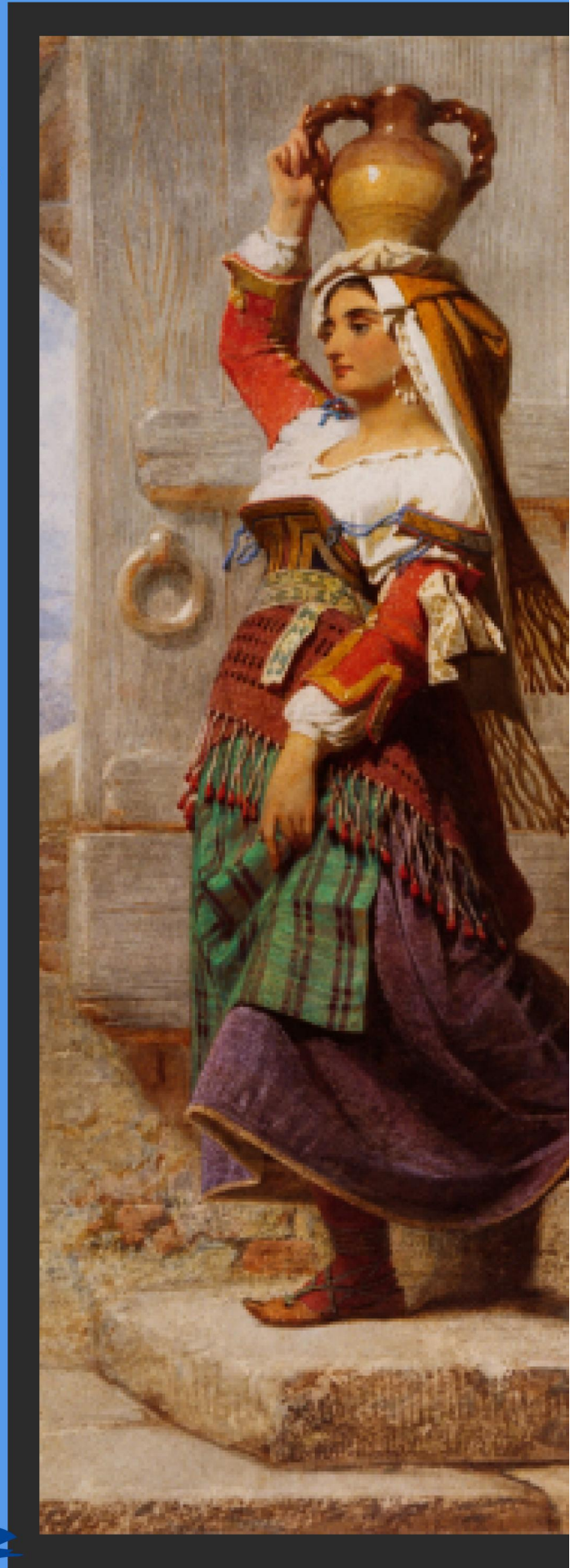


~By
Glenn Peter Pereira
SE- COMPS



Of Life And Art

Life is a surreal series of events,
Mostly unexpected, unlikely planned,
Dreams to thoughts, thoughts to words, words to
dreams again
Some inscribed in scriptures and tombstones,
Some inscribed in the sand
A few billion questions with scarce vague
answers,
And while some love the quest,
The rest are freelancers.
We all get busy,
Seeking fortune, solving mysteries,
Drawing inspiration from past vices and
victories
And not everyone might win,
Some dreams are meant to shatter,
It's the path you forge ahead on,
It's the journey that matters.
The thoughts and words you puzzle along, your
breath and time consumed,
The subtle clues, the trivial doubts, And the
future we presume
'Life imitates art'
And with life is death pronounced
Afterlife and resurrections are mere pretenses
Nothing lasts forever,
Ashes to ashes, dust to dust, we all fall down
But art lives on,
Like the ancestry in our blood,
Within our veins and thoughts and deeds,
Art is the indefinite undertow of the life we lead





MENTAL HEALTH IN AN UNEQUAL WORLD

The present world is unequal. Differentiating people by race, caste, gender, socioeconomic status causes inequality within people. This inequality within people affects their mental health. Mental health is crucial in our life. It affects how we think, feel and act. Therefore, mental health is affected by inequalities.

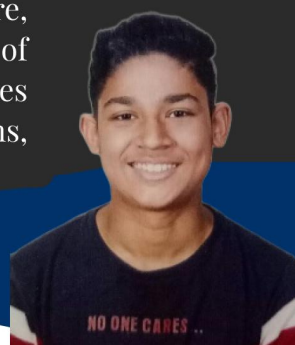
Lack of economical support can influence the mental health of a person. For example, a person having fewer job opportunities or restrictions to resources may suffer from mental disorders such as depression, stress, anxiety, and bipolar disorder. Another economic factor is financial restraints to afford mental health care. Individuals with good economic status can afford mental health services while others are unable to access them. Health care centers should be organized which provide mental health care to the ones having a financial crisis.

Due to the growing level of socio-economic inequality, African Americans are less likely to have access to mental health care. In a study, of all those who received mental health care, minority populations reported a higher degree of unmet needs and dissatisfaction with the services given (12.5% of whites, 25.4% of African Americans, and 22.6% of Hispanics reported poor care).

Many minorities inhabit these poverty-filled neighborhoods due to factors not being in their favor in certain aspects of society. These neighborhoods lack resources such as offices with psychiatrists or health clinics with good doctors to help those in need of mental health care. We can encourage high-poverty neighborhoods to get the help that they deserve by making specific services for them.

The LGBTQ community is facing problems of being denied help by mental health care centers due to their sexuality. In a study conducted by The National Centre for Transgender Equality and the National Gay and Lesbian Task Force, 19% of the LGBTQ sample reported being denied the healthcare they needed. In addition, 28% of the sample reported being harassed or even physically assaulted during the health visit. Denial of treatment and harassment during treatment are the causes of the disparities in mental health care quality, and lack of knowledge is also of concern among the LGBTQ population. The most notable predictor of mental health illnesses among the LGBTQ population is social acceptance. Those members who receive little or no support are three times more likely to have thoughts of suicide than ones with a social support system behind them. This problem can be solved by treating them equally with support and positivity.

There are many inequalities between men and women that affect the mental health of women. Women are twice as likely as men to be diagnosed with forms of depression. On the other hand, men are thrice as more likely to be given a diagnosis of a social anxiety disorder than women. Treating men and women equally will help to solve this problem.



~By
Mervis Mascarenhas
FE

“How did I do a Digital Detox which you should do too”

The founder of companies like Cred and Freecharge, Kunal Shah believes that Digital Detox is good for you.

There are a million things to do on our phones that we often forget that there are a million things to do outside of our phones. I needed a break from my phone and when an opportunity for lakeside camping presented itself before me, I could not say no.

On the weekend of my 31st birthday, I took a tech detox trip along with six close friends and a furry buddy. We went to Roamy – Bhandardara Lakeside Camping. We booked a Tempo Traveller to cover the 350km round trip since that is more comfortable for a labrador than a car.

We left Mumbai at 7 am on Saturday. We took multiple stops to eat along the way and reached the campsite two hours before sunset. Since there was no cell coverage, we had to find the place the old school way. The instructions were “to look for a small tapri and go off-road towards the lake; two village-house-like structures should be visible (which were the kitchen and restroom) and to follow the soil road to find the tents and the campsite area.”

Our campsite was delightful. We saw our tents set up right at the lakeshore. A few chairs and the remnants of a campfire were all there was on the ground. We were at the edge of the world with no signs of civilization for miles around us.

The silence around us was almost deafening. Living in a city, our ears get accustomed to a high decibel background noise that it took us some time to appreciate nature’s quiet sounds. We enjoyed a tranquil Sun setting on the lake. We were served delicious kanda bhaji and tea.

The temperature began to fall rapidly post-sunset. The staff set up some lights and a campfire. We huddled around the fire’s warmth as it started to get cold. Dinner was barbecued chicken, roti, and vegetables.

With no network or phones to distract us, we could have deep and meaningful conversations about anything under the sky quite literally. I realized that while I love technology, I have become so dependent on it that it has become my crutch.

Being away from the city lights, we were able to truly appreciate the blanket of a sky of stars. We also grabbed this opportunity to do some wicked Astrophotography. Each photo took several minutes to set up the shot and the long exposure meant each click lasted thirty seconds. The results were worth it. This was the only exception to the tech detox.

It was way past midnight when the campfire began to die out and it was time to sleep. The tents were comfortable enough to lie down and sleep on. The sleeping bags kept us cozy.

Breakfast was poha and tea. The morning was so peaceful. None of us wanted to leave the place. It was a long journey back home. This one-night trip was a much-needed reset on my technology-dependent life.



~By
Avinash Bangera
(ALUMNI)

Innovation



The Concept of Innovation is a very important factor in any business environment. It serves to determine the sustainability of business operations and also the profit-making initiatives for the involved organization. This 21st-century business environment is characterized by aggressive competition, and that shows the relevance of innovation in Technology. There is an increase in the ratio of the number of businesses per given industry. Businesses that fail to adopt innovation as a strategy are most likely to succumb to the competition within the involved industries.

The advent of technology has led to the enhancement of innovative ideas and also activities. This has made organizational growth increasingly challenging. To remain relevant in the market, they need to engage in innovation as an internal growth strategy and Innovation refers to the ability to modify, improve, or create a product to serve or sustain the operations of the subject of the company. It refers to the constant improvement of the products and their services offered by any given organization.



~By
Chintakindi Akash Prakash
SE(EXTC)

The Golden Sparrow

Hello everyone, my name is Tanmay Gokarn and today I am going to share a story of The Golden Sparrow.

Last year around this time while watching the re-telecast of the Ramayana and the Mahabharata, I noticed that the protagonists were laden with gold ornaments. There aren't many gold mines here but still, we had a colossal amount of gold. Which got me thinking, why was Bharat called The Golden Sparrow?

Then I started researching and I found out that we were great thinkers. We excelled in every sector, be it metallurgy or shipbuilding. If anyone in the world wanted zinc, they had to come to us. Bharat held the sole knowledge for extracting zinc from its ore and we kept it a secret for 4000 years! The zinc separates from its ore at 997°C and escapes the vessel by vaporising at 1000°C . That's just a 3-degree narrow window to extract zinc. The typical furnace has a fire at the bottom. So, we inverted it, put the fire at the top, and added a cold bath at the bottom. So, as soon as the zinc separates and flows to the bottom of the vessel, it cools off and voila, we get zinc!

We were 'the traders' of the world. We all know who Vasco-da-Gama was and how he supposedly discovered India. He had set out to find India with the biggest ship in Europe at that time. At the Cape of Good Hope, he met a Gujarati named Kanha. This story is there in Vasco-da-Gama's journal which is in Lisbon today. He doesn't mention Kanhabhai's surname. Possibly Patel! He writes that Kanhabhai had ships 12 times the size of his ship. Twelve times bigger compared to Europe's biggest ship. We were such great traders. As Vasco-da-Gama was too chicken to sail out in the open sea, he was escorted to Goa by 3 gigantic ships of Kanhabhai encircling Vasco-da-Gama's ship.

Roman emperor Vespasian had banned trade with Bharat as Rome was becoming bankrupt importing luxury goods from us and we didn't want anything from Rome in return. Bharat was 35% of the total world's GDP. Even the USA is just 20% of the world's GDP today. We weren't just rich; we were filthy rich! This was due to centuries of trade surpluses, for which we were paid in gold.

Many of the Indians who believe that India wasn't a nation, the Britishers came and civilized us which is erroneous. The Vishnu Purana, which is more than 2000 years old, says

Don't worry, I'll explain. To the north of the sea and the south of the Himalayas lies the noble nation of Bharat and there resides the descendants of Bharata. We are a young nation but a very old civilization. The Britishers also told us that we were a spoken culture which is fallacious. Great Indian universities like Takshashila were 3600 years old while Oxford was just 925 years old. In 1202, Bakhtiyar Khilji destroyed the Nalanda university and burnt nearly 9 million manuscripts and the books were aflame for a long haul of 3 months! Imagine the plethora of knowledge that was lost. Greek, the mother culture of Europe, has 20-30 thousand manuscripts surviving till today. Can any one guess how many manuscripts in Bharat have survived till today? Whopping 3 million manuscripts.

We introduced the world to the coinage system. From Kohinoor to Kamasutra, from fertile land to mountains to holy rivers to deserts, from money to gold to animals to beauty, Bharat had it all. We were the wealthiest land in ancient times in terms of spirituality, sciences, maths, sociology, economics and hence it was called 'The Golden Sparrow'. But how did we lose the title of the golden sparrow? I agree that the Turkish and European invasions clipped the wings of the golden sparrow. But somewhere something went wrong in our own house. We weren't strong enough to defend ourselves. We segregated our community into various sections. There were numerous internal conflicts among us which the

invaders took advantage of. Once Sardar Vallabhbhai Patel, one of the greatest leaders India has seen, was asked if he believed that Britishers used the policy of divide and rule, to which he replied "No, we divide ourselves and they rule". Every student's dream today is to leave India and settle in western countries. Every other student wants to land in the USA. There is a saying that I heard somewhere that the Britishers left us and then we accepted the Americans, but we never truly became Indians!

My Greek friend told me that the financial situation of Greece is very bad, but they are trying their best to save their country. They believe that 'when your house is on fire, you don't find another place to stay. Rather you try to put out that fire'. In the same way, students that want to leave the country due to brain drain should try to ameliorate our nation. I agree that brain drain can be frustrating but stay back, analyse the problems and find solutions. Many of you might know the infamous joke that engineers in India land unremunerative jobs or worse, no jobs at all. But we can resolve this by creating more jobs in India.

In this short span that I have known my fellow students, I can see many entrepreneurs here, in XIE. I see great leaders, thinkers, founders, and CEOs. We, the youth, are the future of India. We Xavierites are some of the top engineering students in India and looking at us, the future of India seems extremely bright to me. All the Harry Potter fans will get this reference. Similar to how a phoenix obtains new life by arising from the ashes of its predecessor, we will transcend the old Bharat and be reborn as the wealthiest and the most powerful of all nations. We won't be the pusillanimous and wimpish sparrow we once were. But rather we will embellish Bharat with the stupendous title of 'The Golden Phoenix'.

The difference between dreams and reality is action. So, I want every one of you to ask yourself this. What can I do to make Bharat great again? With this burning question in your hearts, I take your leave.

~By
Tanmay Gokarn
FE

Art to Me



116

*Art to Me
Is Something I Seek Comfort in
That gives me a Sense of Belonging
The Feeling of Finding a Familiar Face in the Crowd
A Crowd Which is a Mix of Elements like Words, Tunes,
Colours, and Movement
A Crowd that is an Artist's Paradise
A Paradise they Nurture with Skill and Love
While Experimenting with Different Elements
Using Mindful Permutation and Combination
To Give Birth to Masterpieces.*

*Masterpieces
Which Our Hungry Souls Devour
While Seeking Shelter in Amalgamation of Various
Elements
Brought to Life by Almighty Artists
While the Words, Tunes, Colours, and Movements are
Churned to Make the Perfect Potion
That Leaves Us Awestruck in Daze
We Inevitably Let Art
Occupy its Space in Our Heart
It Cannot be Controlled Even Though it's Our Own
It Recognises Better than You What Embraces it Like Home*

*Each Masterpiece Being a Home
With Familiar Walls
Which We've Never Stepped into Before
But Poses an Intimacy that's Already Shared
In the Emotions of the Maker
Who Pours it Into the Foundation
That Allures You and Leaves You Enchanted
For it Consists of the Very Emotions
That Your Heart Already Has Planted.*



~By
Lysandra D'Souza
TE COMPS

GUILTY PLEASURE

Guilty of something I loved experiencing

While whole world was upset about that thing

I enjoyed, learned, cried, loved, hated with full swing

Things I thought I was right at

this pretty lockdown showed me a mirror for that.

My heart says "You don't need to be guilty my dear."

But the fear of ostracism that is what you want to

hear

I feel my dear Lord has given me second chance

To learn, decide, think, act and dance

And that's why my mind loves to leisure

That this pretty lockdown is my guilty pleasure.



~By
Lekha Ladhe
TE IT

Hey Corona... You Paused us

The World that never stops,
Now it only has closed shops.
The city which never sleeps,
This sudden virus caged people with thoughts deep.
The streets which are always on the run,
are now totally quiet for everyone.
The city which is full of rush,
Has now become totally silent and hushed.
Rich people are relishing the lockdown,
And some of the needy are struggling in small towns.
Some are dying in dearth of resources,
While some are facing the brutal corona causes!
Most of the people are waiting to step out of their houses,
And some are just helping out their spouses.
Few are just waiting for the earlier routine mornings,
While some are just having fun with their family and
siblings.
Introverts were already waiting for this break,
While extroverts want to skip this phase.
Some just want to go back to their office cubicles,
While some are already working 24/7 in hospitals and
medicals.
Everything has just changed in a couple of days,
This minute virus is exasperating in different ways!



118



~By
Ganesh Bakshe
TE EXT C

The Apparent New Normal



Normalcy, a word that has been discussed quite often in the last two years with people having various ways and ideas to attain it, but did these discussions really make a difference? Not really, because fate had its own plan and whatever plans we had or thought or dreamt in the start of 2020, the start of a new decade, the point where we could use the quote “changed into a new leaf” all was thrown out of the window when the pandemic started, and those dreams were shattered into a million pieces. With jobs being lost, loved ones gone and the fear of the unknown, this small microbial virus had the capability of bringing us humans, the supposed invincible down to our knees. There was despair in the air with people not knowing what to do, how to be locked up in their own homes, how to continue living on when almost nothing is the same. Yet now almost at the end of 2021, we have somehow survived two huge waves in the pandemic, economic crisis, various natural disasters such as forest fires, cyclones. Humans showed resilience, kindness, and determination no matter where we were from, which religion we followed or what beliefs we had because at the end of the day it didn’t matter as we all helped, supported, and took care of each other in these troubling times. Now we may never view life with the same lens that we did before, but it may be for a better cause because the way our lens has been positioned now, shows that we are all the same regardless of any difference and that even though we hit rock-bottom we all floated above together. This should be our normal or the “New Normal” not the old normal before.



~By,
Sharon Sebastian
SE COMPS

Our Moment In The Universe

Our problems are so insignificant when compared to the vastness of the universe, we humans form an infinitely tiny fraction of this endless cosmos. Yet, to us, the challenges we face and the hurdles we encounter shape our views on the world. Throughout our lives we constantly face various challenges, some we conquer while some we don't. But every challenge teaches us a life lesson, which proves to be a useful experience for the future. There is something about the universe that draws our curiosity, perhaps the nature of time, which is said to be the fourth dimension. Apart from problems, the only other constant in life is the constantly changing time.

Time is linear, time is omnipresent, time is omnipotent. Time has always been around even before the dawn of the universe and will be even after its doom. Ever since the universe was formed, time has flown past the birth of countless stars, galaxies, and solar systems. It is extremely daunting to realize how little time we have experienced. The past two years have been an exact representation of how unpredictable life can be. Despite constantly being surrounded by negativity and uncertainty, the ray of hope in our hearts never diminished. As the famous quote rightly goes "Time is like a river. You cannot touch the same water twice, because the flow that has passed will never pass again", we have learned to find happiness even in the darkest of times, with hopes of a better future. We have embraced the truth that life goes on, regardless of any circumstances and with this epiphany, we have achieved one of the greatest enlightenment. Now, we have started appreciating the beauty of little things in life and live each moment rather than looking at the big picture. We have understood the duality of life, when there exists bad there shall be good and vice versa. In the infinite universe, this is the moment we exist and for us, this moment is our universe, and that is incredibly beautiful!



~By,
Sushree Nadiminty,
TE COMPS.

“Nothing is small, nothing is big, just believe in your talent you can succeed at any age”

During this pandemic, a lot of students and teachers have had a hard time due to the education rules or online sessions. I work as a voluntary mentor where I guide small kids with IoT, Digital literacy, 3D printing, basic programming, and much more. These small kids lead with lots of technical projects or participate in many events, despite the pandemic today. These young kids show their indomitable spirit during the pandemic and nothing stops them in doing so. Since many areas suffer due to lack of education, Atal Tinkering Labs by AITM took an initiative under Niti aayog so that children from the school level learn about various skills taught in the 21st-century

We as MOCs (Mentor of Change) volunteer for municipal schools, where the teachers are not able to teach these children about electronic devices, equipment or provide them training. We also train the teachers on these modules so that they can utilise the equipment and components provided to them by Govt. Our main motto behind this article is to motivate teachers and professors to adapt to such teaching techniques online so that students can easily learn. Even though our doctors and policemen are frontline warriors, teachers and professors are the ones who guide and make them who they are today so that they can be useful to society in every way possible. This article is for teachers or student ambassadors who help those who require guidance in their path to achieve something in life. Here are a few pictures of the events which were featured in newspapers; where the children we worked with; participated in various events.



*By
Vaishali Shelar
&
Christopher
(Alumni)*



Video Games: A Part of Life

Don't we love our video games? Be it Candy Crush or PUBG on our handheld mobiles or games like Valorant and Purple Place on our computers, God Of War, and Call Of Duty on consoles. Video games are not only a way to pass our time but they intrigue us to the limit and take us on a journey of realistic action, breath-taking scenarios, and fascinating storylines.

What Is A Video Game?

Wikipedia defines video games as an 'Electronic game involving interaction with the user interface using an input device like a joystick, controller, keyboard, or motion-sensing device which generates visual feedback on a display device. But ask a gamer, and you will understand that it is a way to escape the real world into the much more exciting virtual world where the word "Failure" doesn't exist and we are always on the verge of an "Epic Win". The emotion is constant, be it the world-renowned classic "Mario" or the world's most played game "PUBG" or the game with the largest online community "World of Warcraft".

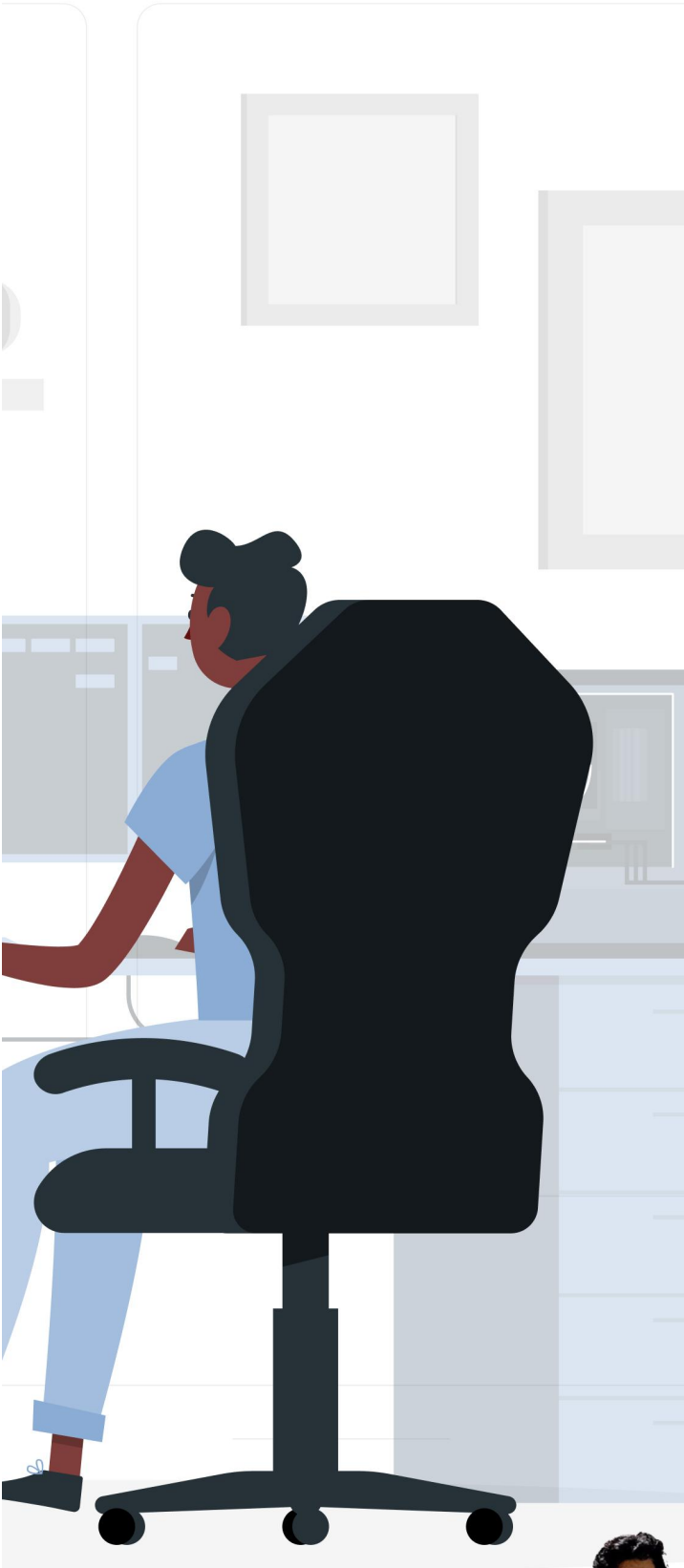
The term "gamer" is used by many people who enjoy video games, but it can also refer to someone passionate about them.

As multiplayer and online capabilities in video games become more social, gamers are finding themselves in expanding social networks.

Electronic sports, a new trend in gaming, is proving that gaming can be both entertaining and competitive. It's no surprise that in the 2010s, you'll see a lot of video games and talk about video games, including trends and topics. The COVID-19 pandemic in 2020-2021 brought attention to video games as a socially isolating pastime that can be enjoyed online with friends and family as a means of social distancing.

Video games haven't always had a good impression all over the world; Since the 1970s, video games have sparked debate. Concerns have been raised by parents and children's advocates that violent video games can influence young players to commit violent acts in real life, and events such as the Columbine High School massacre in 1999, in which the perpetrators specifically alluded to using video games to plan their attack, have added to those concerns. Medical and mental health professionals have expressed concern that video games may be addictive, and the World Health Organization has included "gaming disorder" in the 11th revision of its International Statistical Classification of Diseases.

Aside from their entertainment value, appropriately designed video games have been shown to provide educational value across a range of ages and comprehension levels. Learning principles found in video games have been identified as potential reform techniques for the World's education system.



It has been observed that gamers adopt an attitude of such high concentration while playing that they do not realize they are learning and that if the same attitude could be adopted at school, education would benefit significantly. While playing video games, students are found to be "learning by doing" and fostering creative thinking. Video games are also thought to be beneficial to both the mind and the body. Action video game players have better hand-eye coordination and visuomotor skills than nonplayers, such as

resistance to distraction, sensitivity to information in the peripheral vision, and the ability to count briefly presented objects.

A study of gamers' attitudes towards gaming which was reported in 2018 found that millennials use video games as a key strategy for coping with stress. In the study of 1,000 gamers, 55% said that it "helps them to unwind and relieve stress ... and half said they see the value in gaming as a method of escapism to help them deal with daily work pressures".

New media subculture built around video games and game playing exists all over the world. Computer and video games have had a significant impact on popular culture as they have grown in popularity. It's no surprise, then, that video game culture has evolved along with internet culture and the growing popularity of mobile games.



हिन्दी अनुभाग



Hindi Editor
KHUSHBOO CHAUDHARI

जिदगी मानो जैसे थम सी गई,
पल ही पल के मोहताज़ हुए ।
दिल ने बातें बयां करना चाहा,
तब लफ्जोंने मुंह फेर लिए ।
उम्मीदें सब छोड़नी चाही उतने में,
कागज़-कलम ही उम्मीद बन गए ।

चाहत तेरी

चाहत में उनकी मैं ना जाने क्या क्या कर बैठा,
 वो अपनी दोस्ती निभाती रही,
 मैं पागल इश्क समझ बैठा,
 ये जानने पर की वो इश्क है मेरा
 उसने मुझे खूब डाटा,
 पर क्या करू पागल हूं ना,
 मैं तो उनकी डाट पर भी दिल हार बैठा ।

प्यार के चक्कर में ना जाने क्या
 क्या बवाल कर बैठा,
 हालचाल पूछते पूछते उनके खुद
 बेहाल हो बैठा,
 जब उन्होंने बताया उनका हाल,
 उनका जवाब मुझपे कमाल कर बैठा,
 पर जब मेरी रुह ने मेरे दिल से पूछा
 की तू खुश है क्या,
 ना जाने मैं खुद खुदके लिए
 एक सवाल बन बैठा ।



यादी

हर गम में साथ जीने का वादा करेंगे ,
 हारे चाहे जीते एक-दूसरे का साथ हमेशा दिया करेंगे ,
 कभी तुम हमसे, हम तुमसे रूठ जाया भी करेंगे ,
 फिर एक दूसरे को मना लिया भी करेंगे ,
 एक दूसरे की कदर खुदसे ज्यादा करेंगे ,
 हर पल कुछ नई शुरुवात करेंगे ,
 हमेशा मिलकर कुछ न कुछ खास करेंगे ,
 हम अपनी दोस्ती पर हमेशा इतराया करेंगे ,
 आगे जाके सबको अपनी दोस्ती के किस्से बताया करेंगे ,
 मैं सोच भी नहीं सकता की हम कभी बिछड़ जायेंगे ,
 तू कही भी चली जा बस एक बार बुलाना
 तुमसे मिलने तो जरूर आया करेंगे ,
 हर पल दोस्ती निभानेका झूठा वादा न करेंगे ,
 बल्कि इसे कर दिखाके सबके सामने साझा करेंगे ,
 एक दूसरे को याद बनकर भी रह लिया करेंगे ,
 दूर होकर भी पास रह लिया करेंगे ,
 हो जाए कुछ भी बुरा या सही हम तुमसे कभी शिकायत न करेंगे ,
 बस अपनी दोस्ती की इन कामों को हमेशा दिल में रखेंगे ,
 और विश्वास है हमारी इस दोस्ती पर जब भी तुम्ही दिल से याद करेंगे ,
 तुम्हे अपने पास पा लिया करेंगे ।

- Shivam Dubey
(BE-IT)

127

वह तीन शब्द

लफ्जो से छिपकर दिलसे बयां होते है

वह तीन शब्द...

रिश्तों की भीड़ में एक गहरा नाता बनाते है

वह तीन शब्द...

जिंदगी के अहम वक्त में अक्सर साथ देते है

वह तीन शब्द...

खुदमे एक अलग एहसास जगाते है

वह तीन शब्द...

जान कर भी अनजान बन जाते है

वह तीन शब्द...

न जाने क्यों पर कई ख्याब दिखाते है

वह तीन शब्द...

प्यार की असली परिभाषा सिखाते है

वह तीन शब्द...

एक पल में रुह को छू जाते है

वह तीन शब्द...

हम सब के लिए कुछ खास होते है

वह तीन शब्द...

मैं तो बात कर रही हूं Believe In Yourself की

पर अबतक की आपकी सोच को भी सलाम करते है

वह तीन शब्द...

मैंने नहीं छीननी चाही....



- Aditi Pathare
(BE-IT)

मैं नहीं थी खुश मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीकी प्रसन्नता नहीं छीननी चाही ।
मैं नहीं थी सौभाग्यशाली मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीका भाग्य नहीं छीनना चाहा।
मैं नहीं थी सही मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीकी सच्चाई नहीं छीननी चाही ।
मैं नहीं थी समझदार मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीका यकीन नहीं छीनना चाहा ।
मैं नहीं थी खामोश मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीकी शांती नहीं छीननी चाही ।
मैं नहीं थी आज़ाद मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीका बहुमान नहीं छीनना चाहा ।
मैं नहीं थी साहसी मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीकी ताकद नहीं छीननी चाही ।
मैं नहीं थी सफल मेरे ज़िंदगी में....
लेकिन मैंने कभी किसीकी जीत नहीं छीननी चाही ।
बहुत कुछ नहीं बन सकी मैं मेरे ज़िंदगी में....
लेकिन मैंने कभी किसी से उनका अस्तित्व नहीं छीनना चाहा ।

बचपन

वो बेपरवा बचपन
वो बे मतलब के रिश्ते
ना सपने,ना ख्वाहिशे
मासूमियत से भरा चेहरा और छोटे से ख्वाब

ना कल की फिकर,ना लम्बा मुश्किलों का सफर
वो माँ कि गोद, पापा कि बातें
ना जिंदगी की परिक्षा,ना सपने पूरे करने की
आशा....

बड़ी सी दुनिया में छोटी छोटी खुशियाँ,
ना अपने पराये में कोई फरक,
पल भर में आसूं,पल भर में झगड़े
कभी थोडासा रुठना तो कुछ पल में सब भूल
जाना....

ना जाने कहा गया वो जमाना
बचपन ही है एक सफर सुहाना
वो दिन भी क्या दिन थे...



मराठी विभाग



Marathi Editor
RADHIKA VICHARE



Marathi Editor
PRIYA HARSHE

“जगू शकलात तर च
'दनासारखे जगा, स्वतः जिजा
आणि इतरांना गंध द्या.”

कुटुंब

ही काही पहिली वेळ नाही जेव्हा कुटुंब ह्या विषयी चर्चा झाली असावी. परंतु आज ह्या अनोळख्या नात्याबद्दल मला माझंही मनोगत व्यक्त करावसं वाटतंय कारण ,ह्या कोविड च्या काळातच कुटुंब आणि त्याचे महत्व मला कळून चुकले आहे.

ह्या कोविड च्या काळात माणसाला एक वेगळ्याच मनस्तापातून जावे लागले होते. घराचे टेन्शन,नोकरीचे टेन्शन, शिक्षणाचे टेन्शन आणि अनेक वेगवेगळी डोकेदुखी. सुरुवातीला घरात पूर्ण वेळ त्याच व्यक्तीं बरोबर राहणं सुद्धा कठीण झालेलं. भांडण म्हणा, कटकट म्हणा आणि आजकाल च्या मिलेनिअल शब्दात म्हणायचं तर ऍडजस्टमेंटचा त्रास व्हायचा. साधं घर पण “बिगबॉस” चा कैदखाना वाटू लागत होता.

पण प्रत्येक क्षण माणसाच्या जीवनातला त्याला काहीतरी शिकवण्यासाठीच असतो . त्याच अनुवादाने हा कोविड चा काळ ही एक कठीण परीक्षाच होती आणि त्याचा धडा प्रत्येकाने कोणत्या ना कोणत्या प्रकारे अनुभवला आहे.

घरात जर एखाद्या व्यक्तीची परीक्षा असेल तर त्याची आई-वडील जसे त्याची काळजी घेतात ,पाठीशी उभे राहतात , बंधू-बहिणी , मित्र मंडळी जसे प्रोत्साहन आणि विश्वास वाढवतात, ते सर्व कोविड मधून जाणाऱ्या प्रत्येक व्यक्तीने अनुभवलं आहे .

हे कुटुंबच होते जे आपले म्हणून उभे राहिले. आणि कुटुंब म्हणजे फक्त घराचे व्यक्ती नव्हे तर मित्र,सहचारी,किंवा धावून मदतीला आलेली अनोळखी व्यक्ती सुद्धा. हेच कुटुंब आपल्या दुःखाच्या वेळी अश्रू टाळण्यासाठी खांद्या बनला आणि सुखाच्या क्षणांचा साथी बनला. घरात घालवलेले छोटे छोटे हास्याचे आणि आनंदाचे क्षणं सुद्धा इतके मौल्यवान असतील ह्याची आजतागायत माहिती नव्हती आणि ज्यांनी त्यांच्या जवळच्या माणसांना गमावले आहे त्यांना त्यांची आठवण आजपेक्षा जास्त कधीच आली नसावी.

कोविड आणि लोकडोळून च्या कठीण काळातून वर येण्याची नवीन आशा आणि ताकद जर कोणी दिली असेल तर त्यात कुटुंबाचा वाटा सर्वात जास्त आहे. आणि एकत्र कुटुंब म्हणून आपण जर कोविड ला मात देऊ शकतो तर मग पुढे आपण कोणत्याही तुफानाला सामोरी जाऊ शकतो.

हे सर्व विचार ध्यानी-मनी ठेवून मी माझ्या कुटुंबियांशी कृतज्ञता व्यक्त करते आणि मी सर्वांना प्रोत्साहित करू इच्छिते की तुम्ही सुद्धा आपल्या घराच्या मंडळींना, नातेवाईकांना आणि मित्रांना एक मोठा थँक यु आणि जादूची झपायी द्या. ही छोटीशी का होईना कृती आपले कुटुंबीयांचे नाते अजून घट्ट करेल आणि आपल्या माणसांना अजून जवळ आणेल.



- Janhvi Mathkar

(BE-IT)

133

खरा साथीदार

खरा साथीदार
 तू आहेस म्हणून ,मी आहे
 ह्या खडतर प्रवासात तुझी साथ आहे
 आशा ,अपेक्षांचे ओझं आहे ,
 समाजात टिकून राहण्याचे दडपण आहे ,
 अपयशी , अपमानित , पीडित असे कपड्यांवर
 टॅग आहे ,
 खचलेल्या या मनाला फक्त तुझीच साथ आहे ,
 दररोज आरशासमोर स्वतःचे प्रतिबिंब पाहून
 पुन्हा नव्याने तुझी ओळख होते.
 फसवा फसवीच्या या जगात तूच माझा खरा
 साथीदार आहेस.
 तू आहेस म्हणून ,मी आहे
 ह्या खडतर प्रवासात तुझी साथ आहे.



-Sayali Mane
 (COMPS - Faculty)

कोरोनाचा संसर्ग

कोव्हीड - 19 या विषाणूचा संसर्ग प्रामुख्याने फुफ्फुसांना होत असल्याचे आढळते. कोव्हीड - 19 विषाणूच्या भोवती कट्यांसारखे भाग असतात, तर फुफ्फुसातील पेशी वर ए.सी.इ नावाने ओळखले जाणारे भाग असतात. विषाणू त्याच्यावरील कट्यांच्या द्वारे पेशीं वरील ग्राहींवर चपखलपणे शिरतो. विषाणू पेशींवर चिकटला की तो पेशींना त्यांचा मित्र वाढतो त्यामुळे त्याला पेशीत सहज प्रवेश मिळतो आणि पेशीच्या विनाशाला सुरुवात होते.

विषाणू पेशींच्या कार्यावर नियंत्रण मिळतो व स्वतःच्या आतील आर. एन. ए. नावाने ओळखला जाणारा घटक पेशीत सोडतो. त्यात विषाणूच्या प्रतिकृती किंवा प्रति निर्माण करण्याची आज्ञावली असते. एक ते चौदा दिवसांचा काळ तसाच जातो. त्याला उबवण काळ असे म्हणतात. तेव्हा विषाणू शरीराच्या आत असूनही विषाणू बाधेची बाह्य लक्षणे दिसत नाही.

ह्या काळात पेशींच्या आत विषाणूंच्या असंख्य प्रती निर्माण होत असतात, त्यामुळे पेशी फुगत जाते. विशिष्ट मर्यादेनंतर पेशी फुटते आणि लक्षावधी विषाणू बाहेर पडतात. ते इतर अनेक पेशींवर हल्ला करतात. आता आपल्या शरीरातील रोग प्रतिकार यंत्रणेला चालना मिळते. विषाणूंना मारण्याच्या प्रयत्न शरीराचे तापमान वाढणे, घशाला कोरड पडणे, श्वास घेताना दम लागणे, नाकातून द्रव पाडणे, कोरडा खोकला येणे, घसा खवखवणे, पदार्थांची चव व वास न समजणे अशी प्रतिकूल लक्षणे दिसून येतात. आपल्या शरीरातील ज्या पेशींवर ए.सी.इ. ग्राही जास्त प्रमाणात असतात, तेथे हे विषाणू त्यांचे नियंत्रण मिळवण्याचा प्रयत्न करतात.

फुफ्फुसांप्रमाणे ए.सी.इ. - जास्त प्रमाणात असणाऱ्या श्वसन मार्ग, लहान आतडे, टेस्टी कल्स, मूत्राशय, हृदय, रक्तवाहिन्या यांच्या पेशींना विषाणू संसर्ग जास्त होत असल्याचे आढळते. आपल्या शरीरातील रोग प्रतिकारक यंत्रणा या विषाणूला नष्ट करू शकतील अशा अनेक प्रतिपिंडांची निर्मिती करतात. ही प्रतिपिंडे विषाणूच्या बाहेरील कट्यांवर जाऊन चिकटतात आणि विषाणू पेशींसोबत बंध निर्माण करणे व आत शिरणे यात असमर्थ होतो.

- Siddesh Navghare
(SE-COMPS)

135

ही वेळही

निघून जाईल

अदृश्य जरी असला तरी
मनसाप हा होत आहे
क्षणाक्षणाला भीती एवढी
एकेक श्वास मोजत आहे

काय कोणी तुझे वाईट केले
प्रत्येक कुटुंब तू असे घेरले
नियतीचा खेळ म्हणता म्हणता
शेवटच्या भेटीला ही तू रोखले

दर तुझी उडवता उडवता
तुझे भयानक रूप जाणले
एक अश्रू तरी सुखू देते
त्याआधीच दुसरे आणले

कोणाचे आईबाप,
लेकरं कोणाची
नेले सवंगडी,
भाळूबहीन ही आमची

महत्व तुला एवढे भेटले
होस तुझी फिटत नाही का
कितीक हाय घेशील आमची
आल्या पावली तू परत जा

अजूनही आशा आहे
ही वेळही निघून जाईल
बघतोय तो सर्व
या पापांचा घडा तुझ्याच माथी भरील



-Khushboo Chaudhary
(TE-IT)

कोविड योद्धा

स.न 2020 च्या फेब्रुवारी मार्च दरम्यान अचानक एक साथीचा आजार आला. बघता बघता त्याने सर्व जगाला ग्रासण्याचा प्रयत्न केला आणि तो आजार म्हणजे कोविड. विज्ञानाच्या पुस्तकामधे थोडीशी तोंड ओळख या आजाराची झाली होती जी आज या आजाराने आपली खरी ओळख दाखवून दिली आहे. कुठलेही क्षेत्र अस नाही की त्याला कोविडचा फटका बसला नाही. ज्या-ज्या वेळी देशावर संकटे आली, त्यातून सावरण्यासाठी योद्धे पुढे आले. या महामारीतून देशाला सावरण्यासाठी जे योद्धे पुढे आले त्यांना आपण कोविड योद्धा असे नाव दिले. या आपत्कालीन परिस्थितीत कोरोना योद्धा देशाच्या सेवेत सज्ज झाले. डॉक्टर, परिचारिका, सफाई कर्मचारी, पोलीस, सामाजिक कार्यकर्ते यांच्या रूपाने कोविड योद्धे आपल्याला भेटले. कोरोनाला घाबरून सामान्य माणूस स्वतःला घरी बंद करून बसला, परंतु कोविड योद्धे स्वतःच्या जीवाची पर्वा न करता समाजाला यातून बाहेर काढण्यासाठी सदैव कार्य करत राहिले. माणूस डॉक्टरला तर देव मानू लागला. कोरोनाग्रस्ताला नातेवाईकांनी दूर सरले परंतु आरोग्य कर्मचार्यांनी त्यांना मायेने आधार देउन या आजारातून बाहेर काढण्यासाठी अथक प्रयत्न केले आणि आजही करत आहेत. अनेक कोविड योद्धे या महामारीशी लढता लढता कामी आले. अनेकांची कुटुंब उध्वस्त झाली. तरीही न डगमगता हे योद्धे आपले काम करतच राहिले. आपले पोलीस रात्रंदिवस रस्त्यावर उतरून आपली सेवा बजावत होते, बजावत आहेत आणि बजावत राहणार आहेत. तसेच महत्वाची कामांमिठी बजाविणारे आपले सफाई कामगार कोविड सेंटरची साफसफाई करणे, परीसर जंतुनाशक करणे यासाठी त्यांचे प्रयत्न आजवर चालूच राहिले. परिचारिका तर आपले कुटुंब विसरून कोरोना ग्रस्तांशी नाते जोडून त्यांची सेवा बजावत आहेत. रात्रंदिवस रुग्णवाहिका चालवून रुग्णसेवा करणारे चालक हे ही कोविड योद्धेच आहेत. एवढेच काय तर या महामारीमध्ये जे रुग्ण मरण पावले त्यांना अग्नी देणारे स्मशानामध्ये रात्रंदिवस काम करणारे कामगार हे ही कोविड योद्धेच आहेत. दूध, भाजीपाला, वर्तमानपत्र इत्यादी साठी सामान्य नागरीकांची गैरसोय होऊ नये म्हणून लॉकडाऊनवेळी आवश्यक वस्तूही पुरवठा करण्यासाठी योग्य प्रकारे व्यवस्थाही केली होती. म्हणून आपल्याला कोणत्याही प्रकारची गैरसोय झाली नाही. हे शक्य झाले कारण कोरोना योद्धा बनून सर्व लोकांनी आपल्याला सुविधा पुरवल्या. कोरोनाने मानवाला धडा शिकवला, शुध्द सात्विक आहार घ्यावा, बाहेरचे खाऊ नये, योगासने, व्यायाम करावा आणि आपली रोगप्रतिकारक शक्ती वाढवावी, निसर्गाच्या सानिध्यात राहावे. या सर्वासाठी कोविड ग्रस्ताना मदत करणारे आहारतज्ञ, योगशिक्षक, मानवाला सकस आहार पुरविणारे शेतकरी आणि आपल्या कुटुंबाच्या आरोग्यासाठी सतत सबणारी मृहिणी यांनाही कोविड योद्धा म्हटले तर वावगे ठरणार नाही. आजच्या बदललेल्या जीवनशैली मुळे मानवाला वरील सर्व गोष्टींचा जणू विसर पडला होता. या आजारामुळे या सर्व गोष्टींना आयुष्यामध्ये किती महत्व आहे याची जाणिव या कोविड योद्धांनी करून दिली. अशा या सेवाभावी वृत्तीने रुग्णसेवा करणाऱ्या कोविड योद्धांना माझे शतशः प्रणाम!

- Swarashree Salvi

(SE-EXTC)

137

कशी असते ही शांतता

कशी असते ही शांतता...

एकटेपणाच्या आयुष्याला कुशीत घेणारी,
विचारांचे अनेक पैलू पडणारी,
अशी ही शांतता ..

आयुष्यातले धोके सहज मांडून ठेवणारी,
मनाचे ठोके अलगद ऐकवून जाणारी,
अशी ही शांतता ..

कोऱ्या कागदावर नवीन स्वप्नांची छबी उमटवणारी,
तर कधी स्वप्नांच्या रिकाम्या गाभाऱ्यात आशेची किरण भरणारी,
अशी ही शांतता ..

रात्रीच्या चांदण्यातही भयान रूप दाखवणारी,
चेहऱ्यावर हसू आणि मनात दडून बसणारी,
अशी ही शांतता ..

दुसऱ्याचा बोध घेऊन स्वतःचा शोध लावणारी,
जळत्या देहाची राख बनवणारी,
अशी ही शांतता ..

खरा आवाज तर शांततेत असतो फक्त आपल्याला तो अनुभवता आला पाहिजे
मार्ग तुमच्या समोर असेल ..



- Rohan Vichare
(Alumini)

आपुली माणसं....

सुखात विसरतो, पण दुःखात आठवून,
धावून येणारी असतात आपुली माणसं....

कुठलेही संकट असेल तरी पाठ न फिरवता,
सावरणारे हात असतात आपुली माणसं....

गर्दीत शोधणारी अन् बरोबर ओळखून,
नाती सदैव टिकवणारी असतात आपुली माणसं....

त्रास देऊन ही नात्यातले प्रेम कमी न होता,
आपल्यासह सदैव राहणारी असतात आपुली माणसं....

वाट चुकल्यास हक्काने कान पकडून आपले,
मार्ग दाखवणारी असतात आपुली माणसं....

कुणी कितीही बोललं, गैरसमज करू पाहिला,
तरीही पाठीशी राहणारी असतात आपुली माणसं....

वर्षानुवर्षे दूर राहणारी अन् न बोलता-पाहता सुद्धा,
आपल्याला न विसरणारी असतात आपुली माणसं....

अर्धवट साथ अन् दिलेली वचनं अनेक जण सोडतात,
पण मरेपर्यंत सोबत असणारी असतात ती आपुली माणसं....

आयुष्यात येणारी वळणं ठरवणे तर शक्य नसतं,
पण वळणावर सोबतीत समजावी आपुली माणसं....

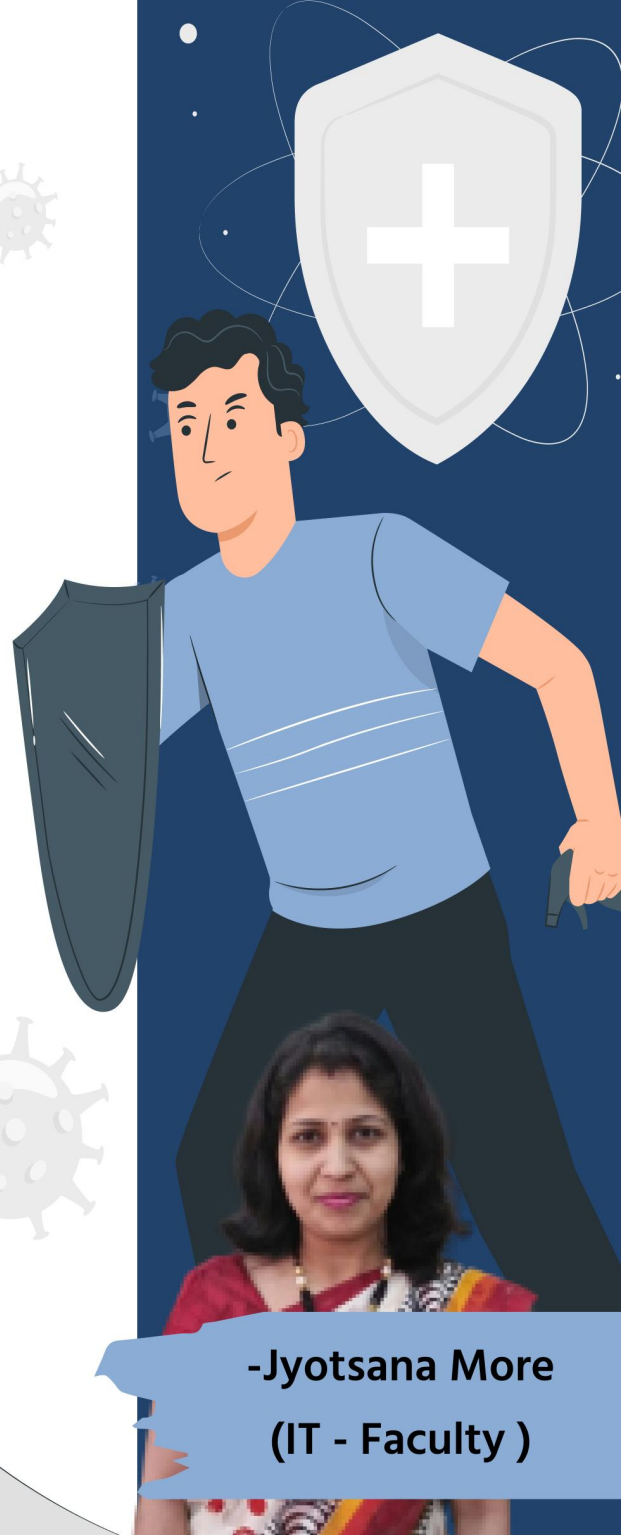


- Aditi Pathare
(BE-IT)

139

गरिबांचा कोरोना

कोरोना, कोरोना केली तु गरिबांची दैना
 रोगराईच्या भितीपाई कुणीहि शांत झोपेना
 दोन वरिस झाले बंद काम आणि धंदा
 शांत बघत बसलाय रयतेचा पोशिंदा
 हतबल सारे कुणी काहिहि करेना
 डॉक्टर, शास्त्रज्ञ ह्यांच्या चिंता काहि कमी होईना
 लसीचे दोन डोस देवून होईल का सारे आलबेल
 जगाच्या पाठिवरचे संकट का हे टळेल? .



-Jyotsana More
 (IT - Faculty)

मी

'मी' कोरी पाटी बनून जगात आले,
कल्पना व कल्पकतेच्या रंगांनी ती भरवी-
- अशी स्वप्ने पाहू लागले.

ओल्या मातीला आकार द्यावयास पहिले
घरच्यांचे हात लागले,
विचार, भावना, श्रद्धा जरी शिकवल्या ग
ल्या

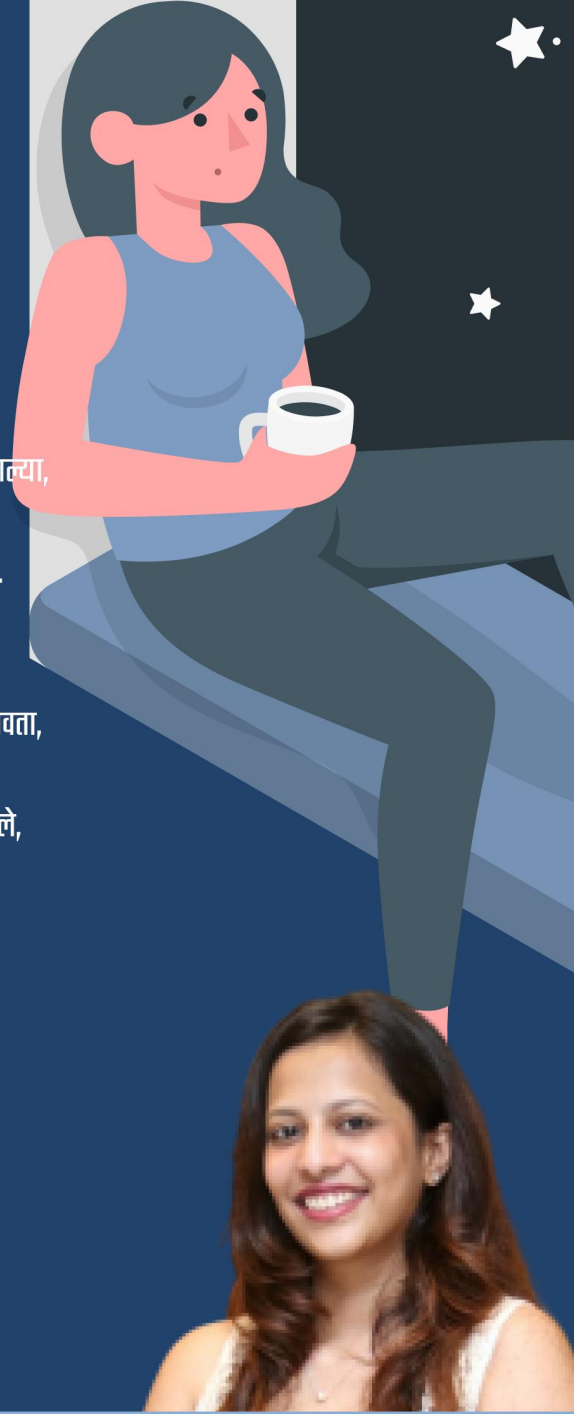
तरी एक वेगळेपणाची ज्योत तेवत होतीच-
-माझं म्हणून स्वतःचा स्वातंत्र्य व्यक्तिमत्व
असावं
- हीच आस मनाशी होती.

पण स्वप्न आणि निर्णय;
-जीवनाचे मार्ग
मात्र कुटुंबाने निवडले,
कुटुंबाच्या त्या छायेत वाढता-
इवलीशी ज्योत ती-
लुकलुकत व डगमगत राहिली.



तारुण्याच्या उंबरठ्यावर-
वाटलं आता जगावं जसं येईल मनी,
आता तर स्वतःहून जगण्यासाठी
होती साथ युवा-जिंदीची,
पण इच्छा, आकांक्षा,
-मनातील आवाज;
कधी जगाच्या रितींशी गुंतले गेले-
- ते कळायला चुकले,
जगाच्या निवडी आपल्याशा वाटू लागल्या,
जि ट्रेंड्स, स्टर्डिल्स चा नाद धरता;
पुन्हा 'मी' कोण आहे ते विसरून गेले.

पाहिलं इतरांची स्वप्ने सामावून घेता,
मग संसारीक जीवनाच्या शर्यतीत धावता,
'मी कोण आहे?' 'मला काय हवंय?'
फक्त एकदा विचारायचं सुद्धा राहून गेले,
मतं इतरांची-
-जागली आणि जगवली मी,
माझी म्हणून मी-
फक्त एक अंशच होते-
ते ही जगास हरवून बसले.



-Saniya Gonsalves
(FE - Faculty)

141

कोरोनाचं चक्र

कोरोना आला, सर्वत्र पसरला लॉकडाऊन ची आली वेळ,
इवल्याश्या त्या विषाणूने बदलून टाकला सारा खेळ.
हिडणं बंद, फिरणं बंद, शाळा कॉलेजांवरही लागले टाळे,
सारे जग ज्यात अडकून पडले असे या कोविड ने विणले जाळे.

फास्ट धावत्या आयुष्याला अचानकच लागला ब्रेक,
घरात कैद झाले सारे, एका मागोमाग एक.
रेल्वे बंद, बस बंद जणू ठप्प झाली वाहतूक,
या साऱ्या गोंधळात मात्र निसर्गाला मिळाले भरपूर सुख.

माणसाला ही सवय झाली तो ही क्षणभर थांबायला शिकला,
गर्दीत हरवलेला प्रेमाचा क्षण, त्याने आता पुन्हा टिपला.
कुटुंबाची वेळ वाढली, ऑफिसचीही व्यवस्था केली,
गाऱ्या मारून, मनसोक खेळून, घरकामात मदतही झाली.

अर्धविराम लागला होता जणू, क्षणभर ही विश्रांती मिळाली,
पुन्हा सगळे सुरु होण्याची, वेळ आता जवळ आली.
वर्षभरात समजलेले धडे, कायम आता मनामध्ये राखू,
जुन्या आयुष्याच्या 'new normal' मध्ये, पुढचे पाऊल जोमाने टाकू.



-Priya Harshe
(SE-EXTC)

SKETCHES

&

PAINTINGS



Graphics Editor
Michelle Macwan



Graphics Editor
Leron Patel



Graphics Editor
Bryan Anthony



Graphics Editor
Rohit Prasad

*"Drawing is not what one sees
but what one can make others
see."*

MERIN REJI SE IT

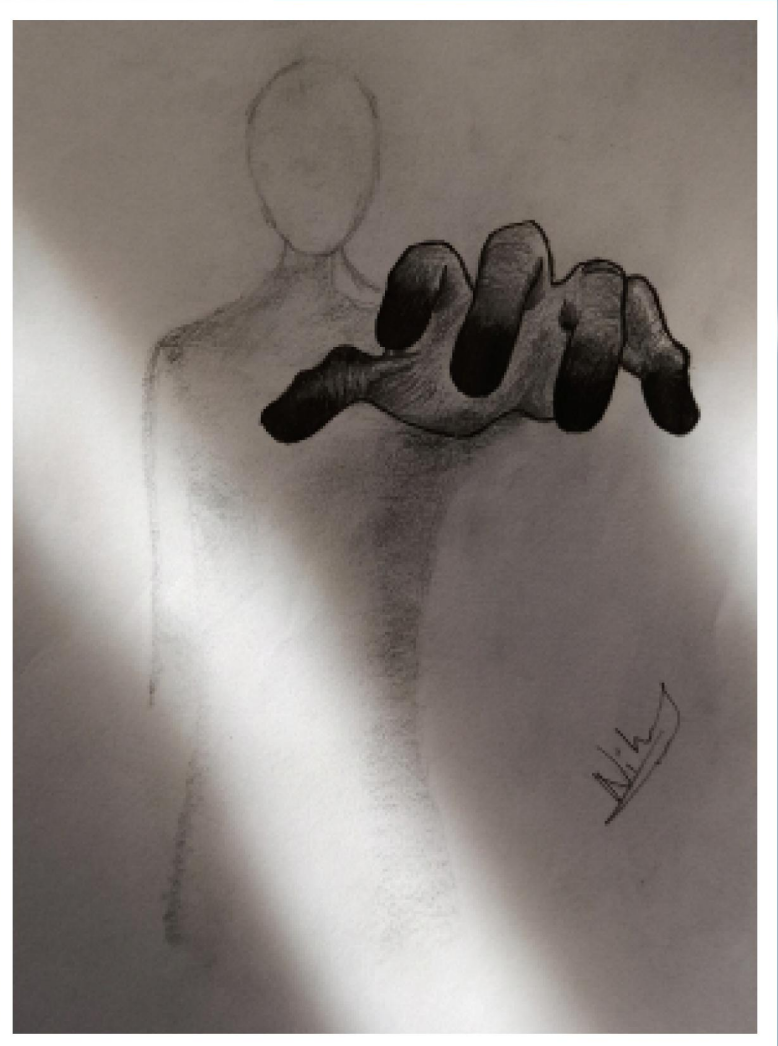


MERIN REJI SE IT





LERON PATEL TE COMPS

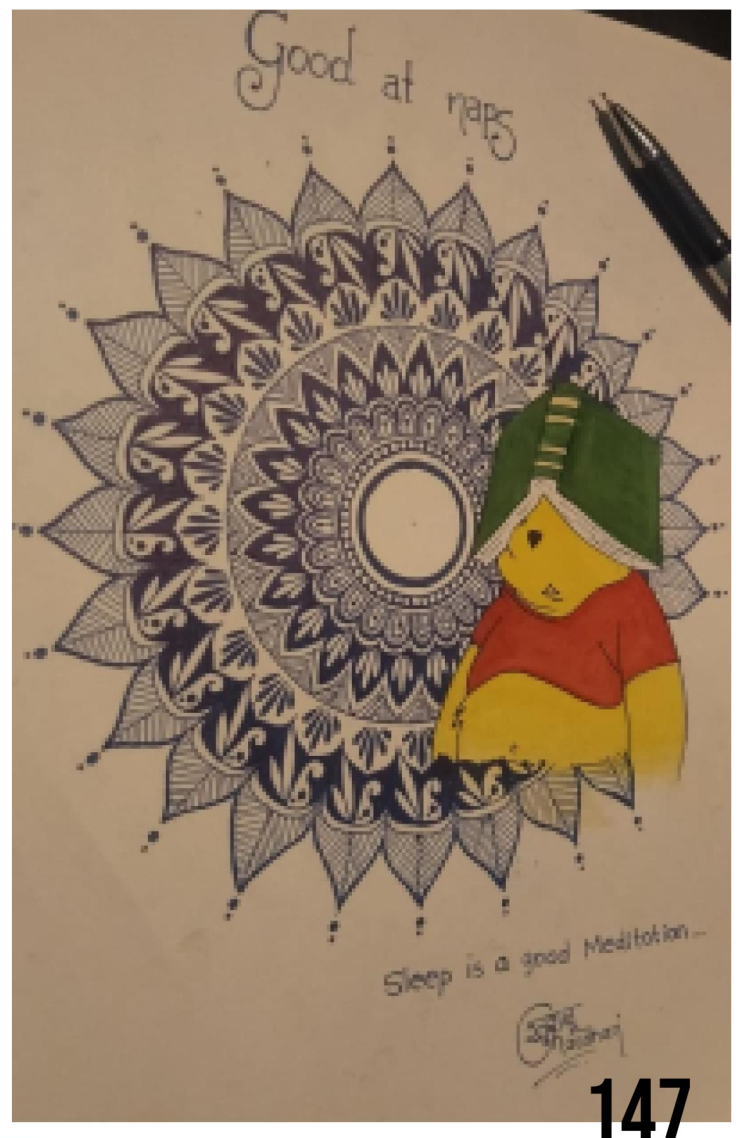


NIHAL SHAH TE IT

MELITA LEWIS TE COMPS



KHUSHBOO CHAUDHARY TE COMPS





FLORINE LOBO SE COMPS

148



DIGITAL ART



Graphics Editor
Michelle Macwan



Graphics Editor
Leron Patel



Graphics Editor
Bryan Anthony



Graphics Editor
Rohit Prasad

“Design is thinking made visual.”



Extraterrestrial Love

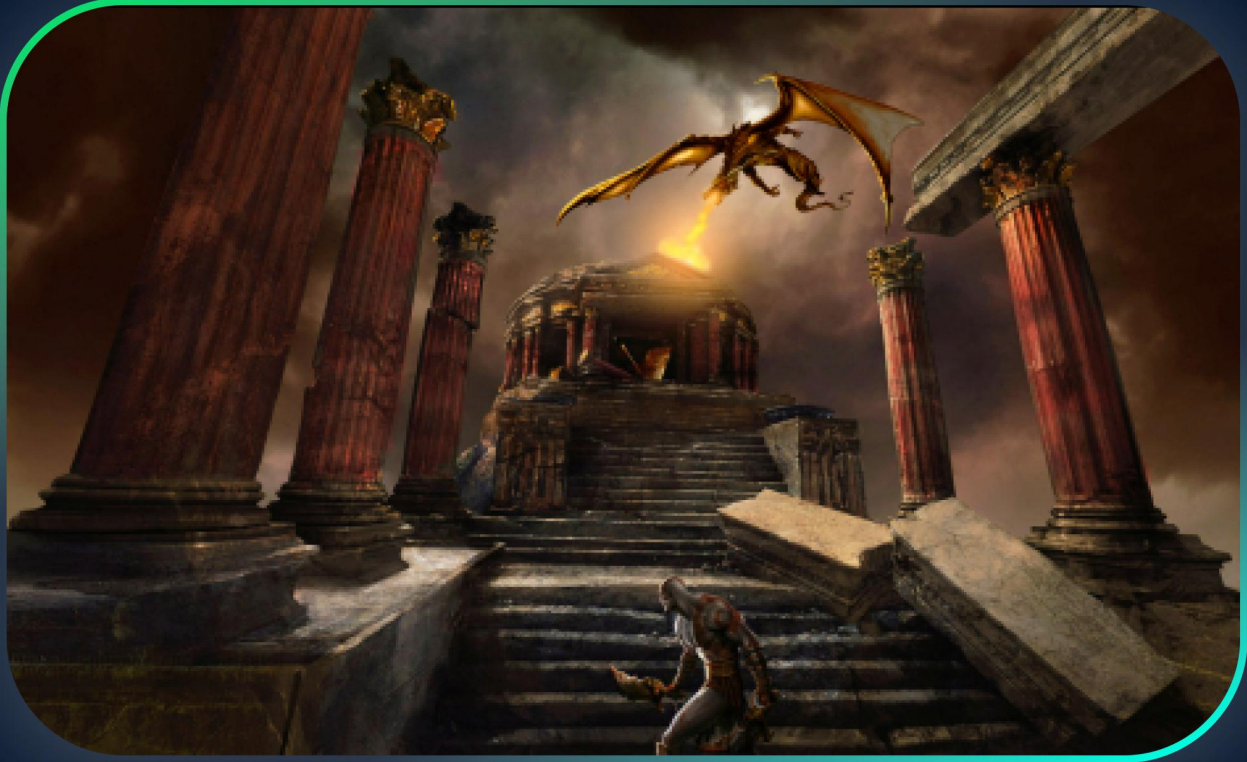
10.8585 ETH

2 Days



Bryan Anthony
SE-COMPS

151



Cyber Kratos

 69.420 ETH

 4 Days

152

Rohit Prasad
SE-COMPS





Sinking Space



8.4987 ETH



6 Days



Bryan Anthony
SE-COMPS

153



Rhythmic Silhouette



17.4987 ETH



85 Days

Chinmayee Patil

SE-COMPS





Imaginative Island



69.420 ETH



23 Days

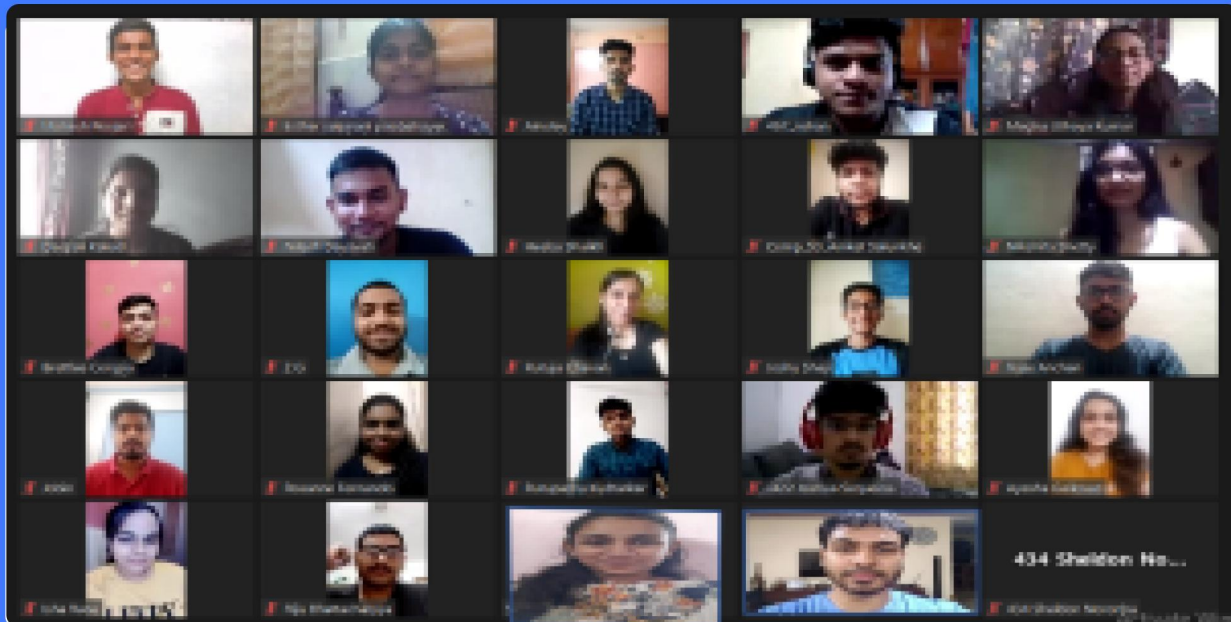


Rohit Prasad
SE-COMPS

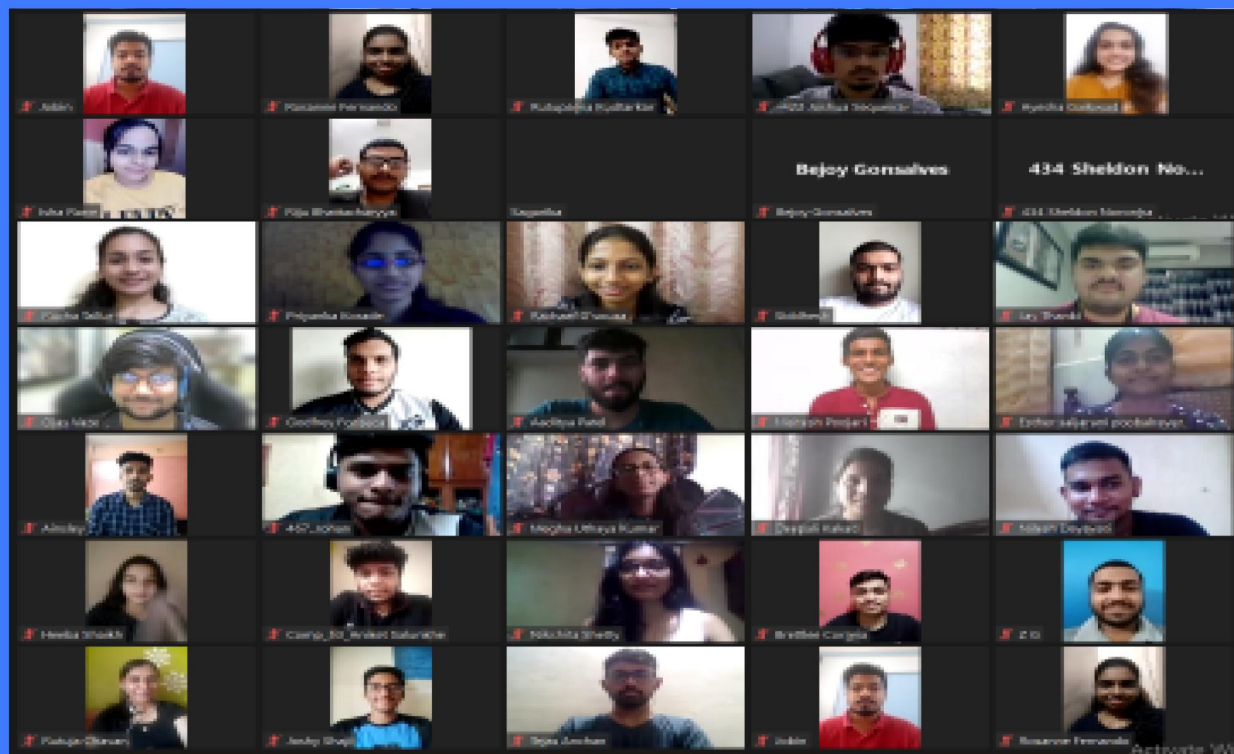
155

Photo Gallery

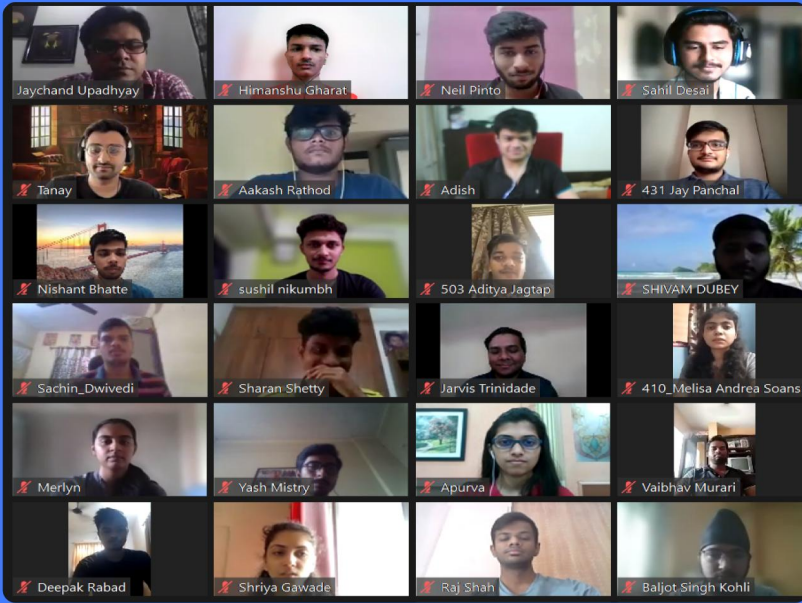
B.E. COMP



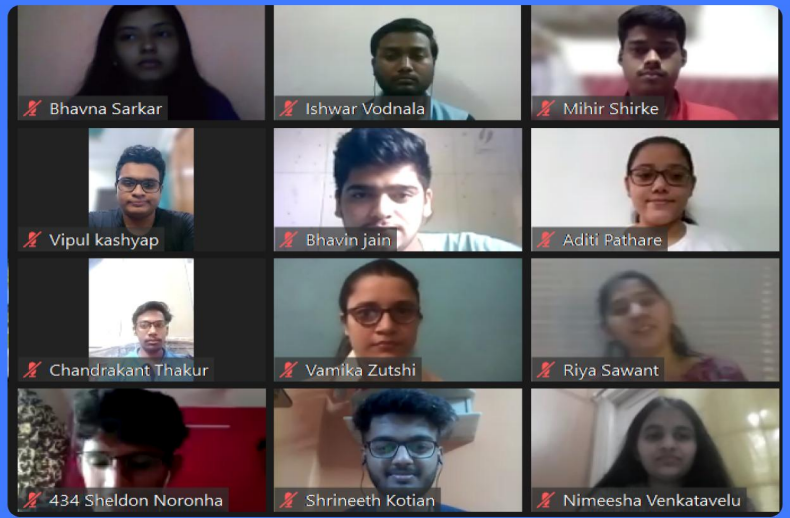
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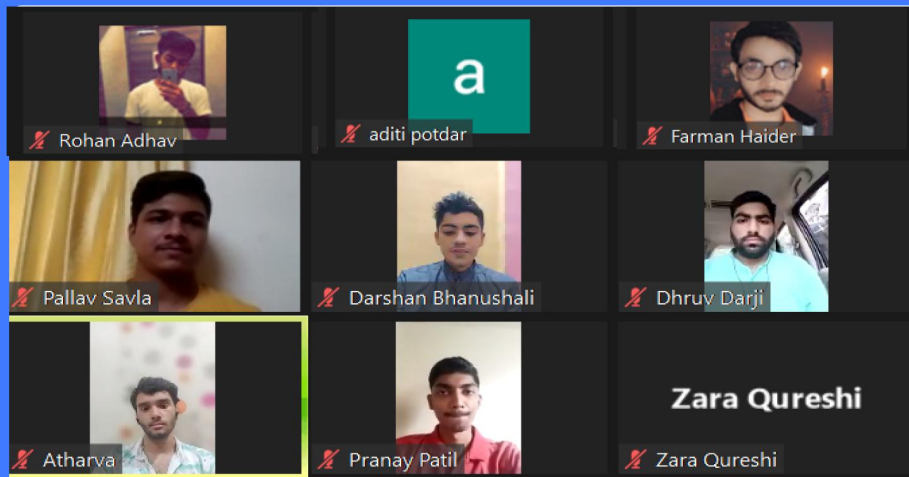
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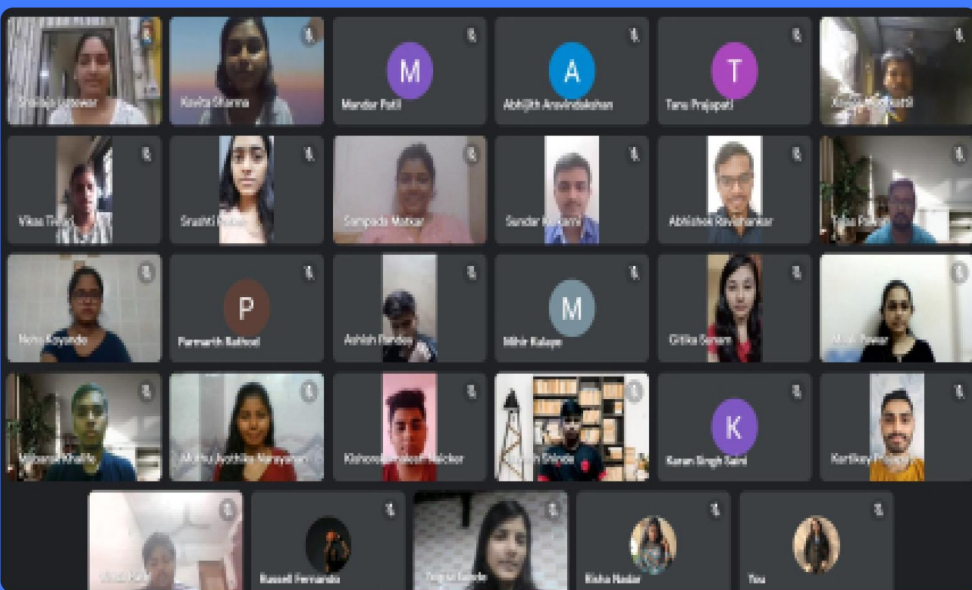
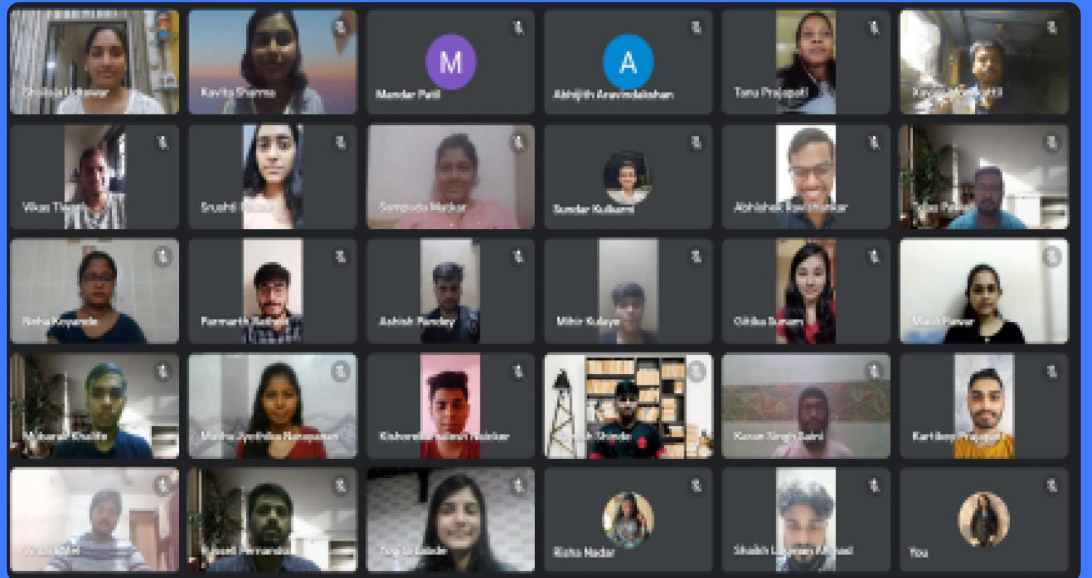
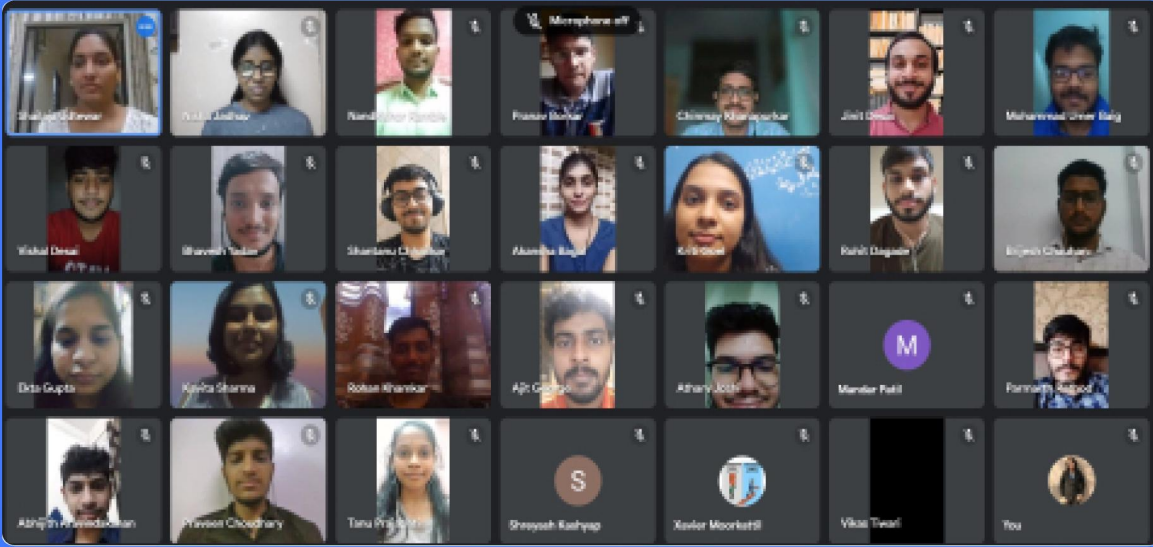
B.E. IT



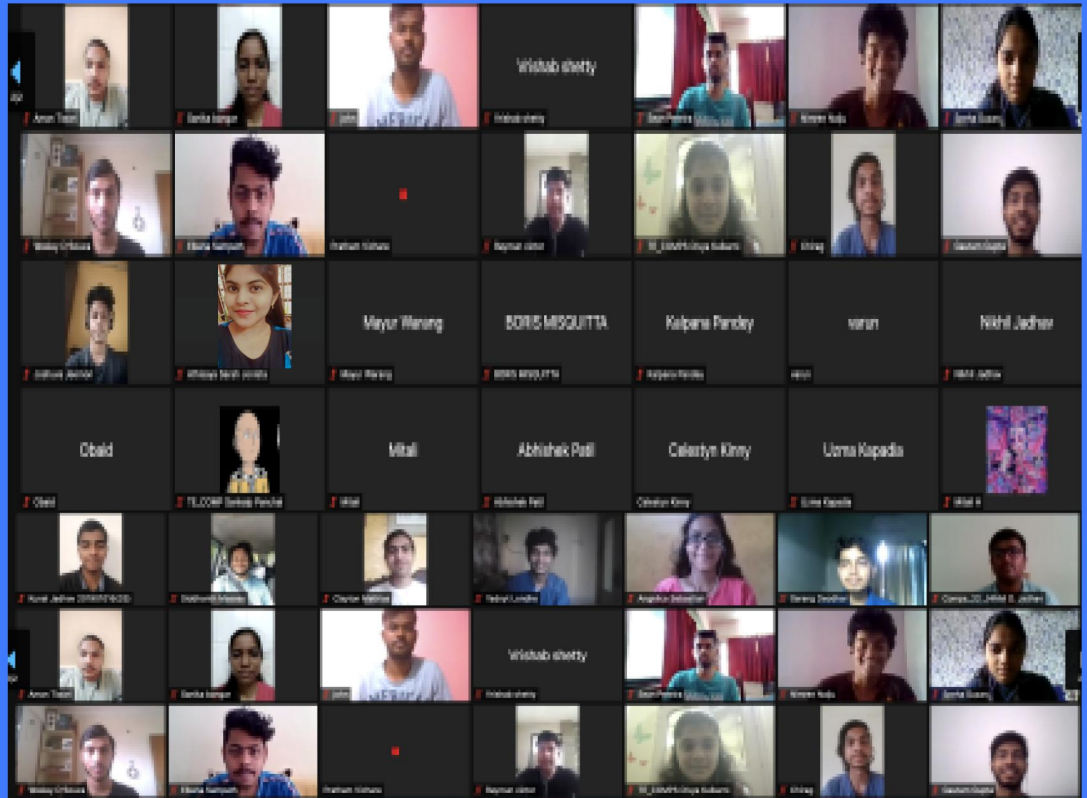
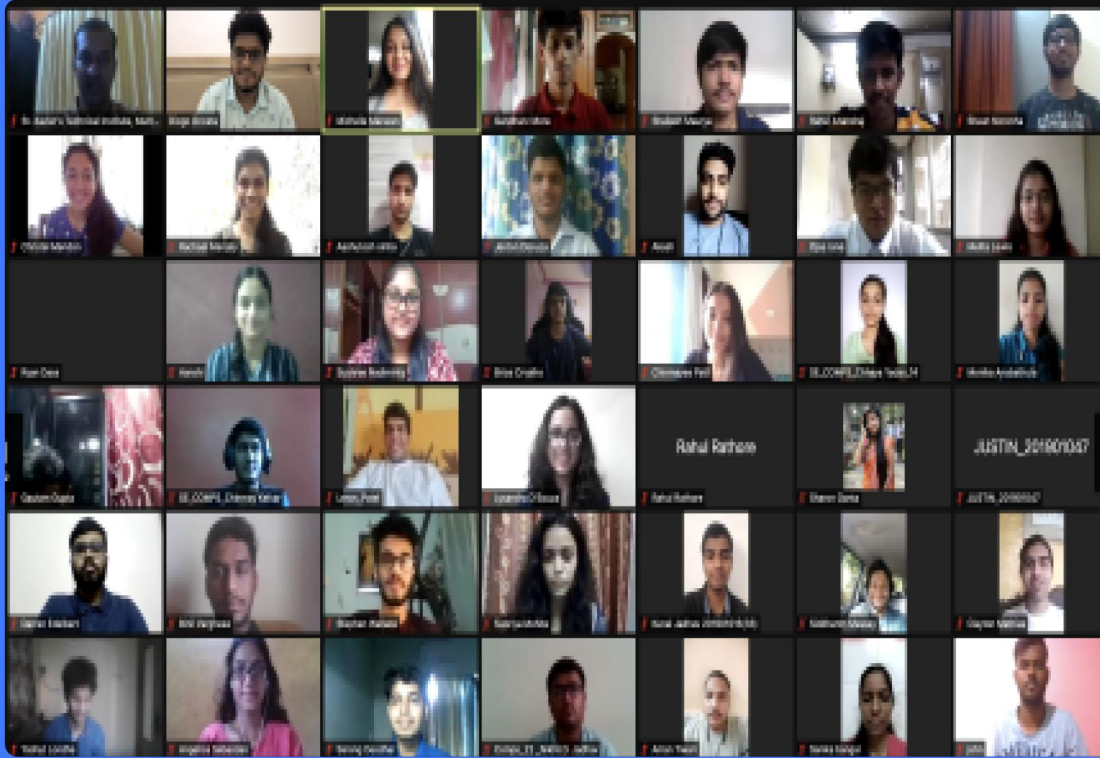
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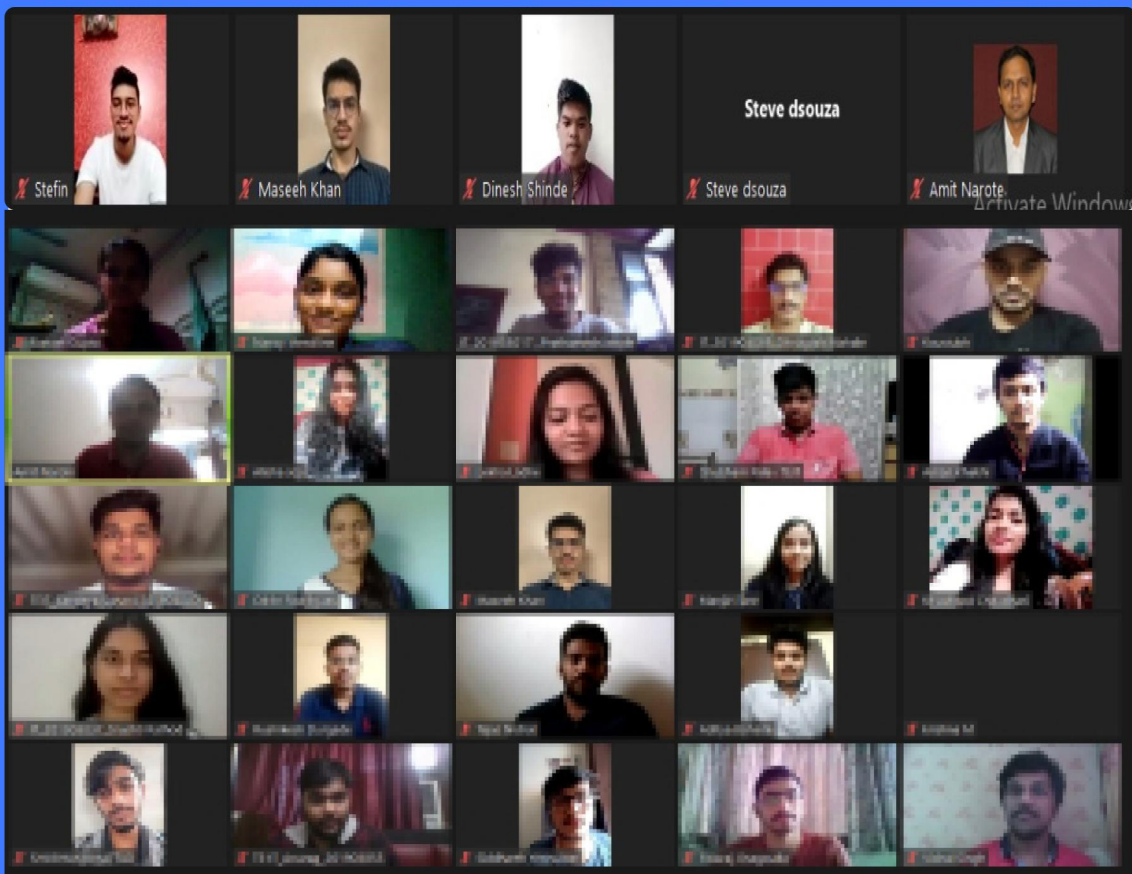
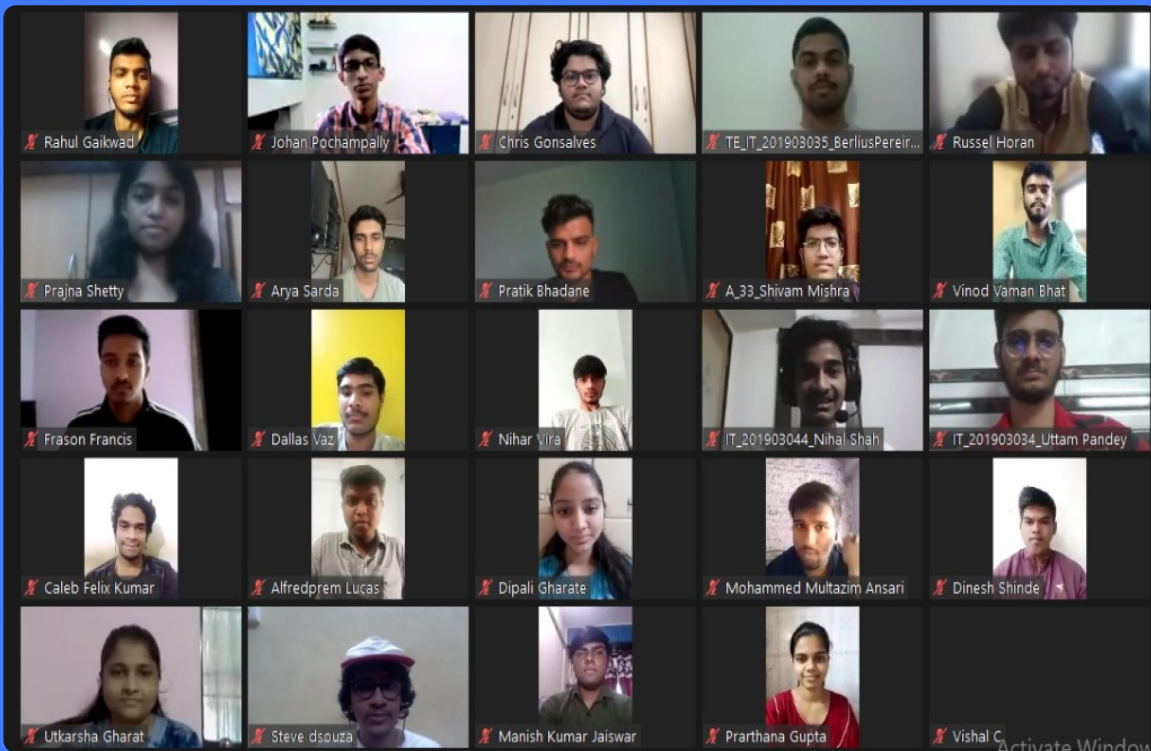
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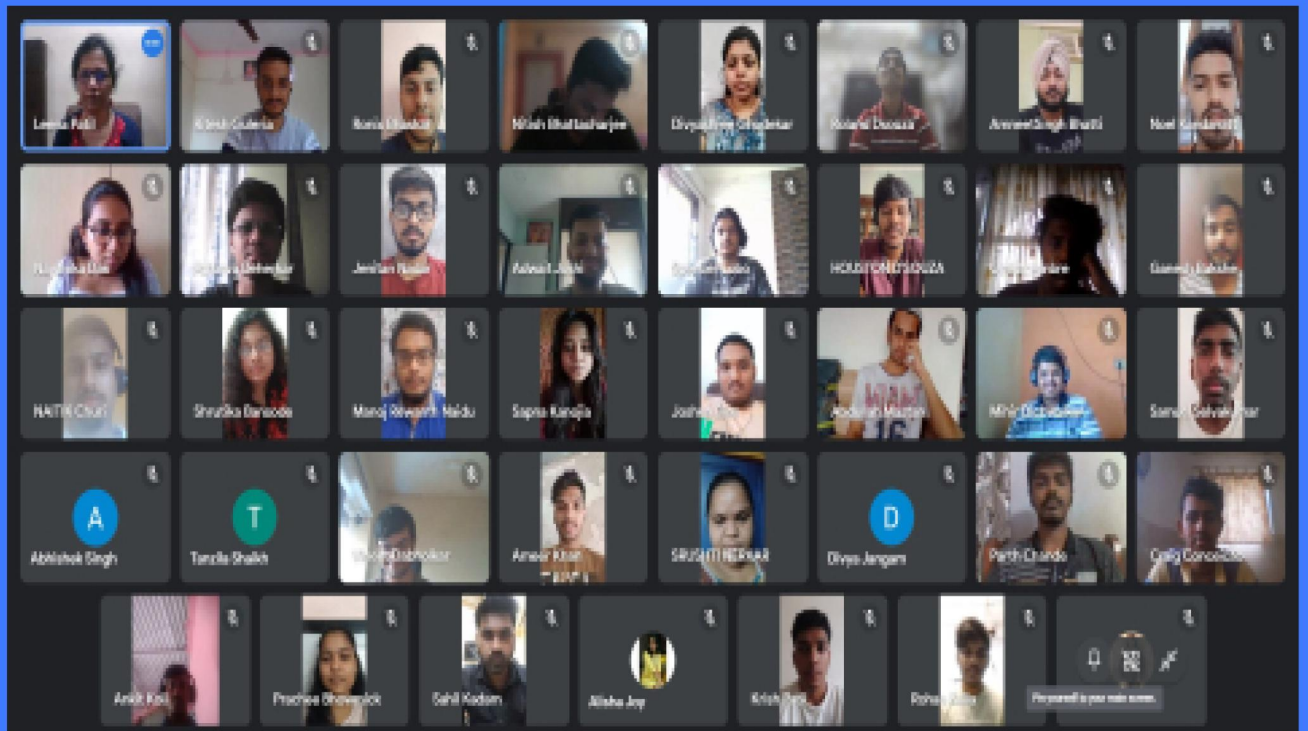
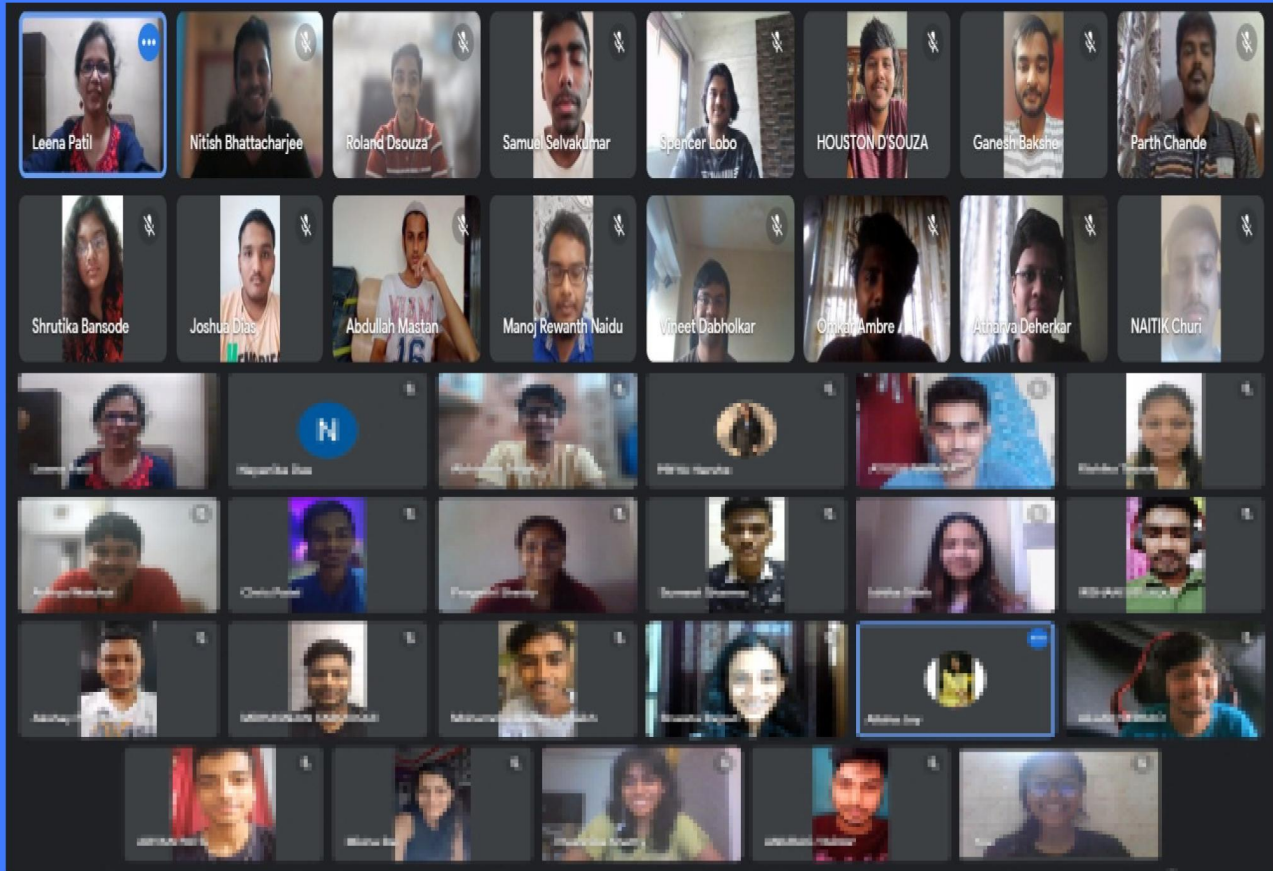
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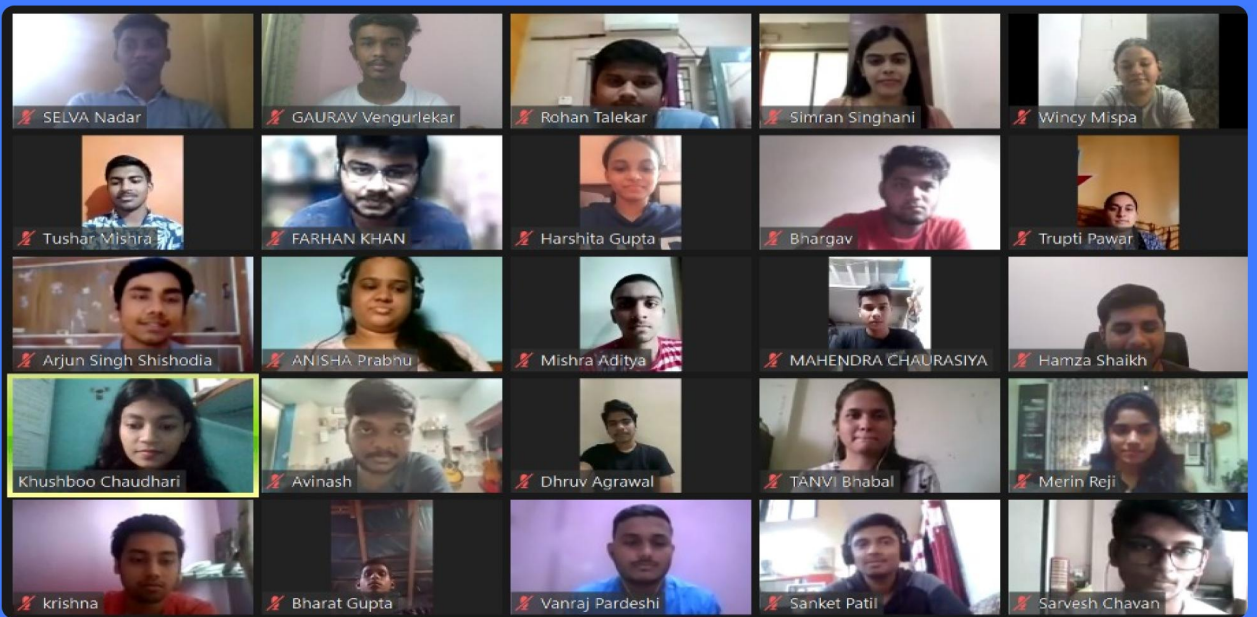
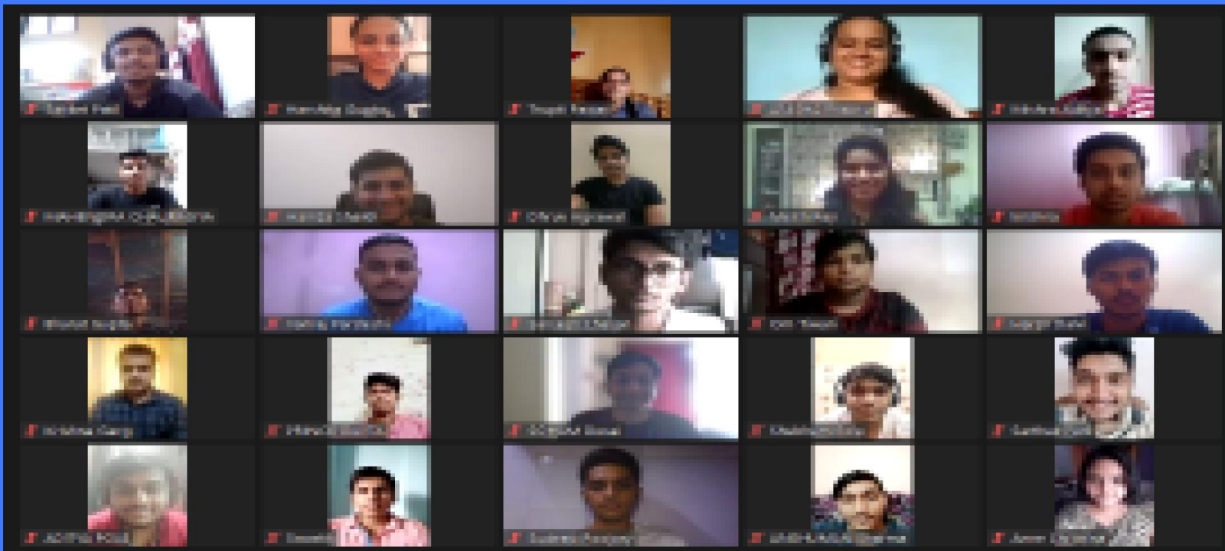
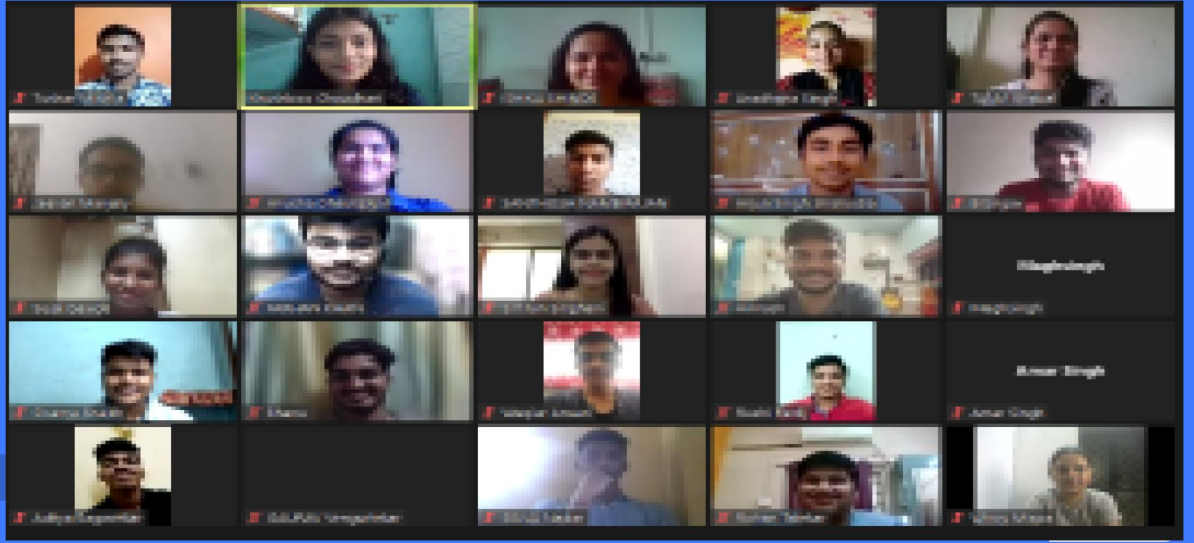


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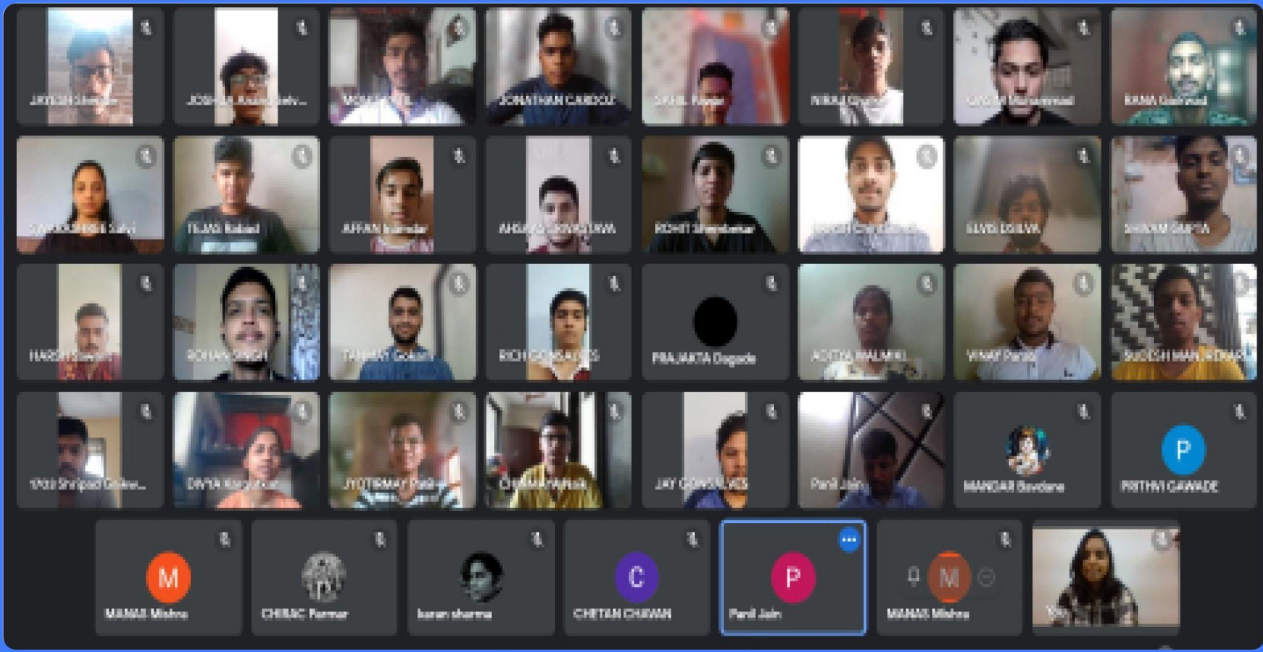




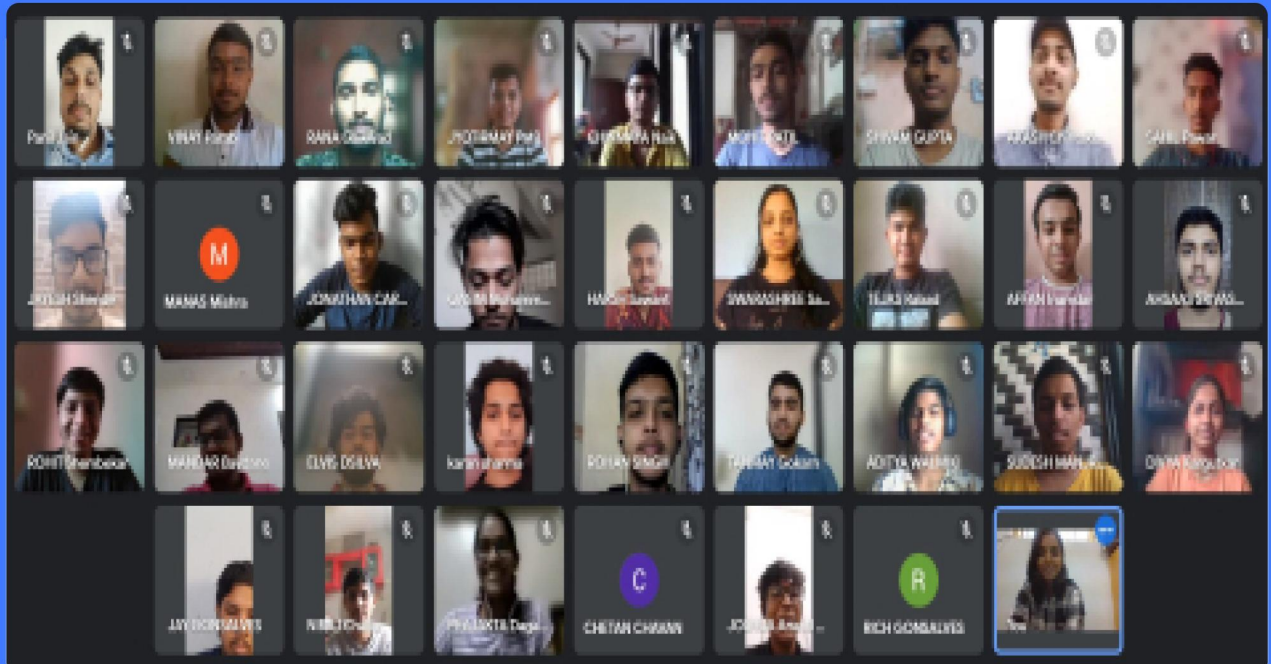
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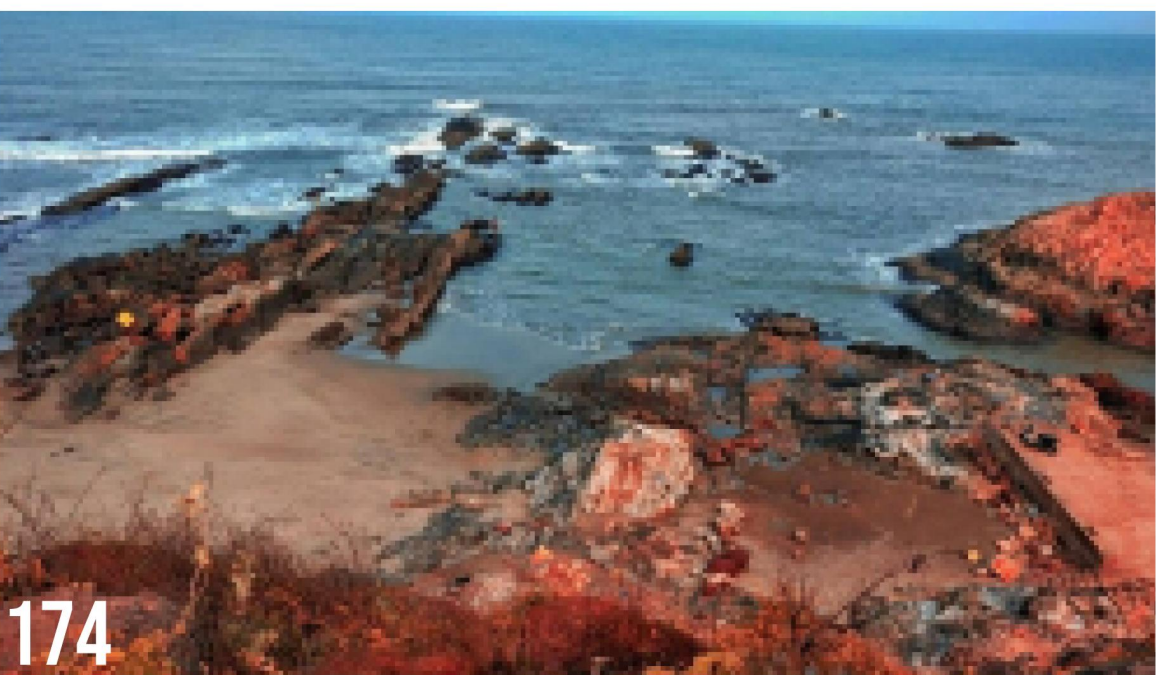
Graphics Editor
Rohit Prasad

“The soul never thinks without an image.”



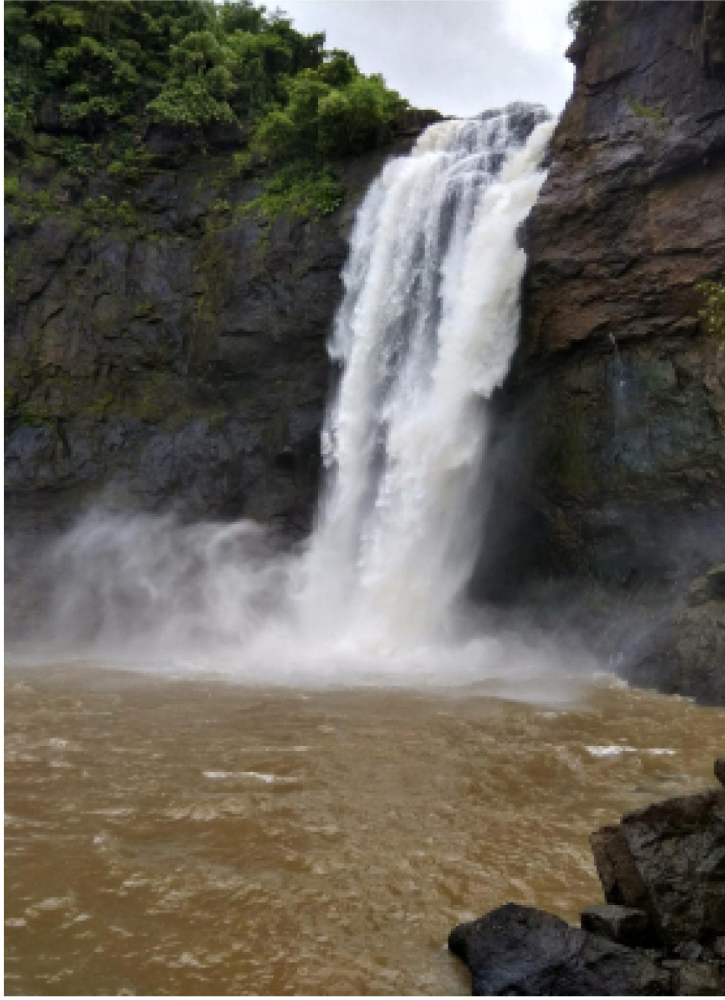
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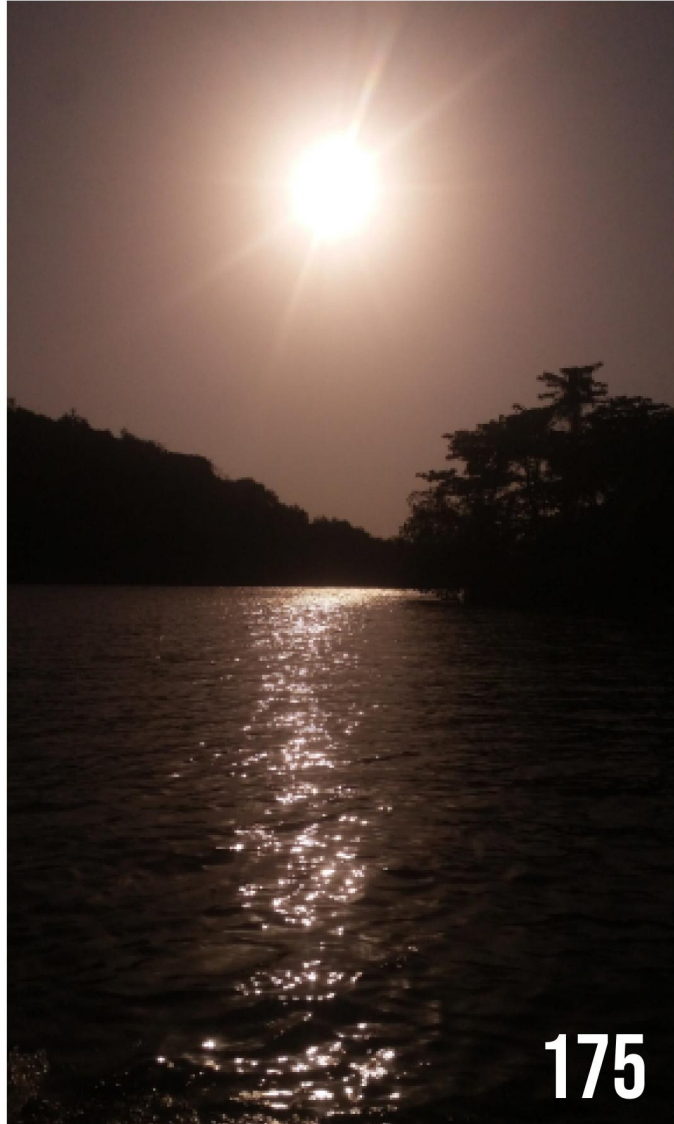


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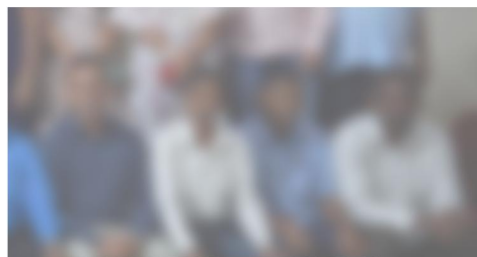
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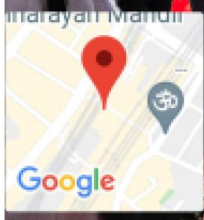
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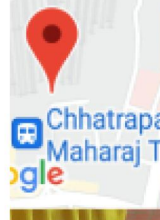
XMAS CELEBRATION



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 Long 72.842924°
 25/11/21 09:39 AM



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 Terminus Area, Fort, Mumbai, Maharashtra 400001,
 Lat 18.940589°
 Long 72.835972°
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Gratitude

Life is a voyage that's meant to be cherished. It sure could have a fair share of uncertainties but there's always beauty in the unexpected. Only our ability to embrace and adapt to it truly makes it a 'Buoyant Voyage'

"You can never make it past the stormy seas until you have the courage to lose sight of the shore"

The quote in itself is a testament to the trials and tribulations we were exposed to in the form of the pandemic's 2nd wave. Although numerous obstacles came our way, we Xavierites were only driven to make the most of the situation. Xavierites never found these dangerous waters an excuse to remain ashore as our ship was guided by Valiant Captains who only brought about the best in each Sailor. ConneXIEon 2022 is proof of that.

As the saying goes, 'A ripple in the sea is felt by every drop'. Likewise, it was not the effort of an individual but the cooperation and commitment combined that was put forward by determined sailors. It's their contribution that pulsates throughout the magazine that furthered its successful completion.

I would like to extend my sincere gratitude to our Director, Rev. Fr. Dr. John Rose SJ and Principal, Dr. Y.D. Venkatesh for their unwavering support and confidence at every step of bringing to you this magnificent magazine. I am immensely grateful to our Head Curator, Prof. Saniya Gonsalves for constantly believing in me and being my pillar of support while also ensuring only the best be brought forth from the team as well as the magazine. I express my earnest appreciation towards our Ombudsman, Rev. Fr. Dr. Lance Prabhu, SJ who helped us with the process of editing.

As it's known the best, 'Life is a product of editing'- this is true in terms of evolving where our Teachers play a key role. We thank our faculty members Prof. Saurabh Dadasaheb Patil [COMPS], Prof. Shilpa Dingankar [COMPS], Mr. Mustaq Shaikh [IT] & Prof. Saniya Gonsalves [ASH] for proof reading and bringing forth outstanding excellence from the Technical, Marathi, Hindi & English section respectively.

It's not the ship alone that braves the various tones of the sea but its proficient sailors! The best teamwork comes from like minded and determined people working in unison, towards a common goal. Special thanks to the Graphics team for their artistic dedication to their craft as exemplified by the ethereal aesthetic touch they have given our magazine. A huge vote of appreciation to the Reporters who vigilantly documented the brilliance displayed by our Xavierites throughout the year. We have all been up-to-date with the happenings of ConneXIEon 2022 and that wouldn't be possible without the keen efforts of our Publicity team. As we are familiar that 'Content is Value', I sincerely thank the Faculty Members and Students for sending in their noteworthy work! Our Technical, Hindi, Marathi and English Editorial Teams have left no stone unturned to provide this edition with only sheer excellence. They have indeed outdone themselves in the most commendable way. More importantly, I'd like to genuinely thank our XIE family whose brimming enthusiasm always encouraged us.

Lastly, my experience as the Editor in Chief has been nothing short of a dream come true. Words fail to express how grateful I am to our Director, Fr. Dr. John Rose SJ and the Principal, Dr. Y.D. Venkatesh for entrusting me with this prestigious position. I cannot thank our Head Curator, Prof. Saniya Gonsalves enough for appointing me for the post and always being my guiding light. No matter how rough the obstacle ridden storms got, she was my anchor which made me believe that I can take this post on, single handedly, contrary to the previous years. With the help and confidence of everyone at XIE, the Voyage of the Magazine Committee has only been Buoyant. I hope ConneXIEon 2022 radiates a sense of Buoyancy within all of its readers that they incorporate in their Voyage too.

Bon Voyage!



~Lysandra D'Souza
Editor in Chief.

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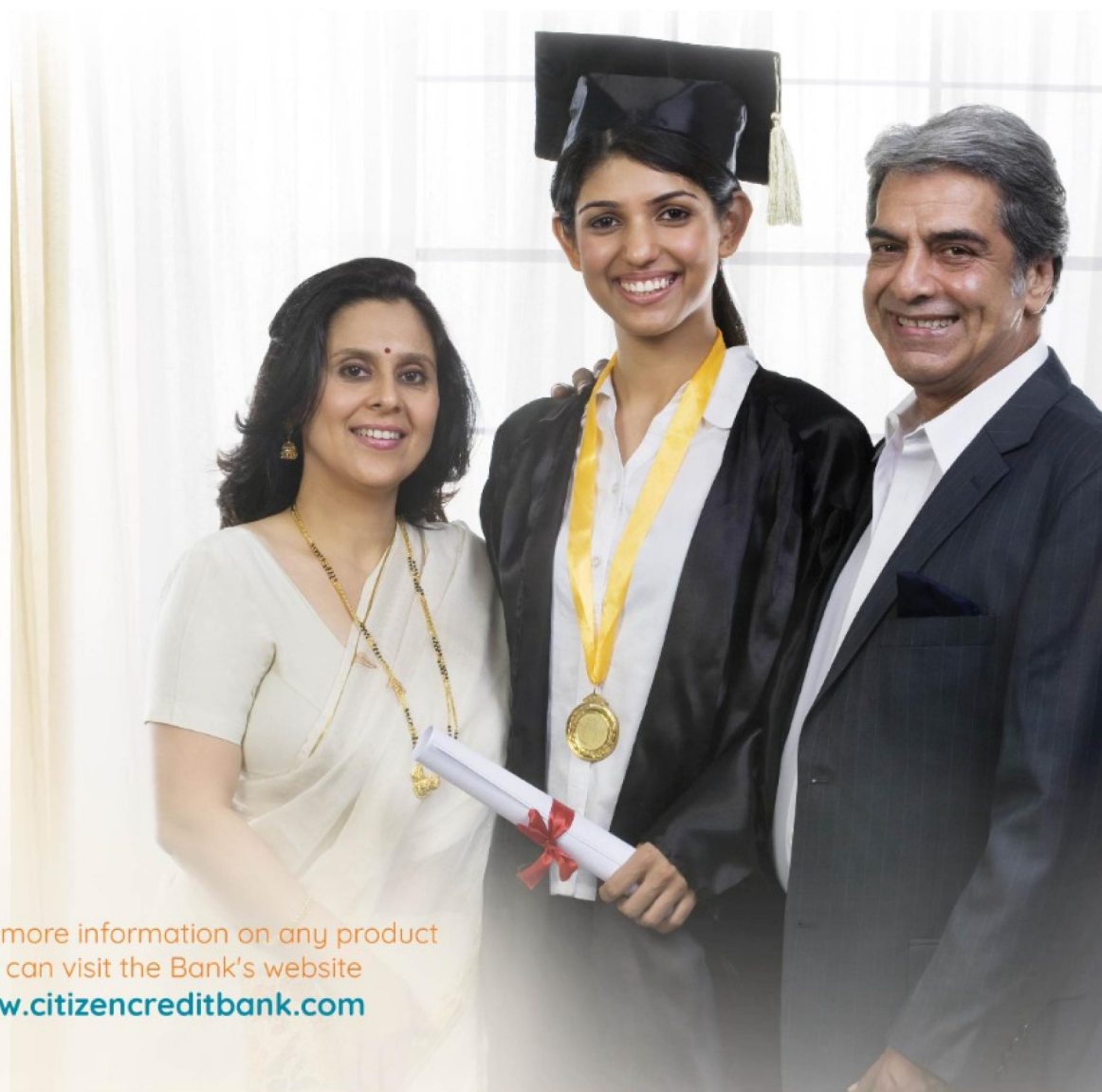
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