



XAVIER
INSTITUTE OF ENGINEERING

XAVIER INSTITUTE OF ENGINEERING

CONNEXIEON '23

ENCHANTING CHRONICLES

AD Majorem
Dei Gloriam

Cura
Personalis
Magis



XAVIER INSTITUTE OF ENGINEERING

CONNEXIEON '23

XIE VISION

TO NURTURE THE JOY OF
EXCELLENCE IN THE 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 LIFE

PREFACE

We are happy to bring you the eighteenth edition of XIE's annual college magazine, 'ConneXIEon'. With great efforts and unparalleled dedication, we, the Editorial Team, have managed to put our minds together to bring to you this enchanting, inspirational, fun yet informative magazine. While curating ConneXIEon '23, we have managed to create something that not only the students of XIE will love, but also anyone and everyone who has ever been a part of XIE!

In this year's issue, we decided to capture the magic of newness and inspiration through the theme, 'Enchanting Chronicles'

Retaining the magic of each section, we also bring out a uniqueness with a distinct sub-theme for each one. The progress of technology is dynamic and awe-inspiring. Our technical section tries to encapsulate the recent trends in technology and exhibits the various perspectives of ideas of projects of our budding engineers. Tales of grit and determination are always inspiring and up-lifting, and the English Section commemorates this resilient spirit through its theme, 'Rising from the Ashes'.

There is something magical about childhood, the simplicity of it, and quest of curiosity embedded in it was almost enchanting. The regional section of Marathi lauds this innocence of childhood with its nostalgic theme of काळासोबत हरवलेले छोटे मंत्रमुग्ध क्षण. The realm of magic is incomplete without the fables of bravery and grit. This theme is perfectly developed by the Hindi section paying an ode to inspiring stories and people through 'क्रांतिकारी दास्ताए'. Not forgetting the importance that a setting plays in any story, our art and photography section captures the essence of 'Vintage Architecture'. Finally, one can look back to the wide array of events that have occurred in the institute that have only furthered the growth of each individual who decided to be part of them, which in turn benefitted them immensely.

We would like to express our immense gratitude towards our beloved Director, Fr. (Dr.) John Rose, our kind Principal, Dr. Y.D. Venkatesh, and everyone at XIE, for providing the necessary help and encouragement in the creation of this magazine.

Finally, we would like to add that the views and opinions expressed in this magazine belong to the authors and owners of the articles and do not, in any way, represent the official position of the college or of the editorial team.

With that said, Happy Reading!

-The Editorial Team

EDITORIAL TEAM



PROF. SANIYA GONSALVES
HEAD CURATOR



EDITORS IN CHIEF



PUBLICITY TEAM



REPORTS TEAM



HINDI EDITORS



GRAPHICS TEAM



MARATHI EDITORS



TECHNICAL EDITORS



ADVISOR



ENGLISH EDITORS

EDITORIAL TEAM



PROF. STELLA J.
STAFF CO-ORDINATOR



MR. NAVEEN KUKREJA
STAFF CO-ORDINATOR



PROF. SHILPA DINGANKAR
STAFF CONSULTANT



DR. VAISHALI GAIKWAD
STAFF CONSULTANT



PROF. ZEBATASNIM ANSARI
STAFF CONSULTANT



PROF. MARTINA D'SOUZA
STAFF CONSULTANT

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DIRECTOR'S MESSAGE

DR. FR. JOHN ROSE SJ



Dear Students and Friends of XIE,

A lot of things happen at XIE and there's no end to them. It's intriguing what I see. Professors seem serious when they stream in through the reception gates in the morning and out of them in the evening, all the while their lips curved up, never down.

The students, male and female, paired or otherwise, come in jauntily yet, despite the rapt attention given in class and brains much exercised in the lab, their gait doesn't change when they make their way back home. And the office and working Staff, early risers to clean up and cook the basic home meals of the day, and then just able to catch the train and travel mostly standing to get here, when accosted in the corridors or met on business in the office, they do their work without a frown and give the necessary information in a manner that is both succinct and cheery. I am reminded of an old popular song, "Some Enchanted Evening," but at XIE the whole day seems enchanting. How come?!

I'll run down a few factors. Since its origin in the 1930s in South Mumbai and arrival in Mahim in the 1950s and notwithstanding Covid and post-Covid, XIE has continuously upgraded itself, au courant with all that happens in the scientific and moral and spiritual disciplines. All the computers on campus have been propped up with 16 GB RAM. An Apple Mac Lab has been set up. Classrooms and labs are both equipped with interactive 75-inch Smart Boards.

A new BE course on Computer Science and Engineering with specialization in Cyber Security, IoT and Blockchain Technology has been started. Digital displays have been fixed strategically so that information, important notices, and fresh news are immediately made known. The Gait Lab has been gifted with an expensive Force-plate that makes it easier to calculate the inertia of bones and muscles. The College canteen has the outdoor food-court. As the ancient Romans used to say: "Mens sana in corpore sano," that is, the mind functions well only in a healthy body.

And, we can add, the mind and body do their job only with the proper spirit. XIE is a Jesuit institution, and therefore it has an ethos, originating with St Ignatius of Loyola and St Francis Xavier, which directs everything towards the greater glory of God. There's no better way of doing that than being fully alive, developing professionalism not so much for personal advance as for rendering better service to people. What sustains the spirit of XIE is not only excellence in studies but also, more importantly, its NSS doing a lot of social work, like obtaining blood donations and adopting a rural village, Nagzari, in Thane District, teaching its students maths and science and teaching them coding in Python, and helping its seniors to repair roads and do water harvesting. Soon XIE will have a modern Basic Electrical and Electronics (BEE) Lab, a Solar House for the Students' Council, a Gymkhana. These will not be seen as opportunities for relaxation and "time pass," but for broadening hearts and relating to others in a happily charged and charmed atmosphere.

PRINCIPAL'S MESSAGE

DR. Y.D. VENKATESH



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 and Computer Science Engineering. All the four 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.

The recent accreditation from NBA for our IT and EXTC department was a huge success and teamwork of all the wonderful faculty we have in XIE. 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.

It has been an exhilarating experience and I am proud that our magazine, 'ConneXIEon' is a milestone that marks the growth, which unfolds the imagination of the students and gives life to their thoughts and aspirations, making it a treasure trove of knowledge and fun. It unleashes on a wide spectrum of student's creative skills ranging from writing to editing and designing the magazine. It also envisions the achievements of our students in various fields of their studies. I congratulate the entire Editorial team for their hard work and dedication in uncovering and encouraging creative talents and in bringing out this magazine which reflects itself in myriad ways.

This year's theme 'Enchanting Chronicles' speaks about finding magic and hope in day-to-day life. Right from the heart-breaking situations to the amazing events the students of XIE try to find magic in small things and incorporate it into their life being a better being. Just like that, they try to find and give hope to everyone else by simply making everyone else look for moments of magic in their own lives. Every morning the students and staff of XIE embark upon a long mystical and vibrant journey of their own with their lips curved upwards till the journey ends by the end of the day. That is enchanting. That is the real magic.

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 this 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 to 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.

ADMINISTRATOR'S MESSAGE

**FR. ALBERT
MENEZES SJ**

Post-Covid but before the Monsoon ended there was bustle again at XIE with the return of the SEs, TEs, and BEs who looked relieved to be out of online education and back into normalcy. They gave rapt attention in class and between classes they had noisy banter in the corridors or gossip over teacups in the food court. But sometime in late September the whole Staff, whether academic or office or maintenance, efficiently carrying out duties as usual with a quiet and joyful demeanor had, what appeared to a newcomer like me to XIE's administration, a sudden change of gear. They were all serious, though without tension, replying to queries quickly without lessening the information required, and working overtime even on Saturdays and Sundays, having to carrying out hukums from higher authorities like this one: "All Faculty & Staff are requested to stay back & complete all the files today. If required you have to stay up late at night & do it." The story behind this exigency goes back to 2017 when it was realized because of new Government notifications that XIE could not function without proper accreditation. Immediately mind and muscle were set to obtain it, and by 2019 NAAC gave it to the whole of XIE with the proviso, as is customary, that it had to be renewed every five years.

What remained to be done was the accreditation from the NBA for the different Departments of XIE. The approval of the cadre-ratio was first obtained from the All-India Council of Technical Education (AICTE), and by 2020 the required Self-Assessment Report (SAR) was submitted to it for the IT and EXTC Departments. The high processing fees were paid to the NBA and the preparation for the visit of its Inspection Team began. Files and documents connected with the Department facilities had to be readied and made easily available; classrooms with smart boards and labs with their accessories were scrutinized; research and development projects were given the once over; and all activities, even those reaching down to sports, were fine tuned to produce the best results. But there was no hurry or worry, and none of those involved lost their cool.

The D-Days finally arrived on 4, 5, and 6 November. A team of five, including its Chairman, from the NBA arrived on schedule and it lost no time to start its loaded programme at 9:00 am with introductions demanded to be brief by its Chairman, and with a succinct presentation by the Principal about XIE. During the next two days the NBA team, singly or together, visited and checked the central facilities and labs and library, sat through presentations by HODs, attended lectures and lab sessions, met with the programme Faculty and with students in the classrooms, studied the Budget accounts and paid a visit to the Placement Office, met with Alumni, Parents, and employers, and shared the findings among themselves for at least half-an-hour before lunch and after tea and, when back to their hotel, after dinner. No one was privy to the Team's deliberations and to the reports they had to submit to the NBA authorities, but it was observed that their strict demeanor at the beginning soon gave way to contented looks. On the last day mid-morning, the final short meeting was advanced by an hour, due to the Team being in a hurry to pack up and head back, and its "exit comments" were made quickly but in a generally satisfied manner. What was utterly unexpected is that, despite the hurry it was in, the Team obliged by being prominently present with broad smiles for the many photoshoots that were sought by many. This present Chronicle of XIE, which will end in about three months' time with the final evaluation results of the NBA, is bound to be even more enchanting.

OMBUDSMAN'S MESSAGE

Fr. Lancelot Prabhu SJ

Our life and our world is full of mystery, wonder, beauty and delight. As children we are naturally enchanted by the magic of the world, thrilled by its wondrous delights and marvels. Unfortunately, as we grow out of childhood we get used to the marvel of the world. We take its beauty for granted and close our eyes to its wonder and mystery. Our capacity for wonder perceptibly tends to decline as we begin to see the world through a screen of images, ideas, concepts, beliefs, memories and knowledge. We don't anymore perceive the world directly as children do but indirectly. The dimming of wonder and awe also inevitably takes place because our adult mind tends to view the world more and more through the lens of the self, its myriad interests and concerns. This distortion of our perception empties the world of wonder and mystery. The poet William Blake declares, "If the doors of perception were cleansed everything would appear to man as it is, Infinite." For us in the world modern world today, this is the big challenge: to "cleanse the doors of perception" so that we can see our enchanted world afresh as it is, in all its pristine beauty and grandeur.

Sources of enchantment abound in our world. There is the miracle and mystery of the natural world that surrounds us: the breathtaking beauty of hills, mountains and deep ravines, the expanse of green countryside and forests, the vast ocean stretching towards the horizon and the starry night. In the presence of these, our incessant inner chatter ceases for a moment, as we remain transfixed in awe and amazement.

In such self-transcending moments, we are led to exclaim as the poet William Wordsworth did, "And I have felt a presence that disturbs me with the joy, of elevated thoughts; a sense sublime. Of something far more deeply interfused in the light of the setting sun, and the round ocean, and the living air, and the blue sky, and in the mind of man, a spirit that he believes rolls through all things."

Experiences of enchantment and wonder also confront us when in the presence of the mysteries of life: the birth of a new life, the death of a loved one, discovering who we are, and the presence of great love and heroic sacrifice. In encountering the mystery of the natural world and the mysteries of life, we may also be blessed, sometimes, with a glimpse of something sublime and transcendent: the ultimate source of enchantment which is part of our life and our enchanted world and yet is beyond it.

We cannot miss, too, the enchantment of the marvelous creations of human intelligence and ingenuity that distinguish human life and history. These are a perpetual source of wonder and enthrallment. Among these are the awe-inspiring discoveries of modern science, the constantly evolving products of today's technology, the captivating beauty of art, painting, sculpture, architecture, dance and music, and the last, but not the least, the never-ending charm of literature including poetry, myths, fairy tales, novels, drama and the entire range of creative fiction.

HEAD CURATOR'S MESSAGE

PROF. SANIYA GONSALVES



Life's full of battles, but your zealous spirit to bravely face them has the potential to turn them into 'Enchanting Chronicles'. 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.

'Enchanting Chronicles"- our theme is an ode to the stories all of us have to tell. We pass through life, all engrossed in our own journey. On the way, we're inspired by many. Some stories that we'd love to emulate, some that ignite a spark, and some that serve as lessons to learn from. While some tales live to boast of their grandeur, some never make it to the limelight, lying low hidden in a corner. Nonetheless, each one has its own potential to inspire and shine! It is these told and untold stories that we wish to celebrate this year. Because every tale, with the right amount of magic- can be enchanting!

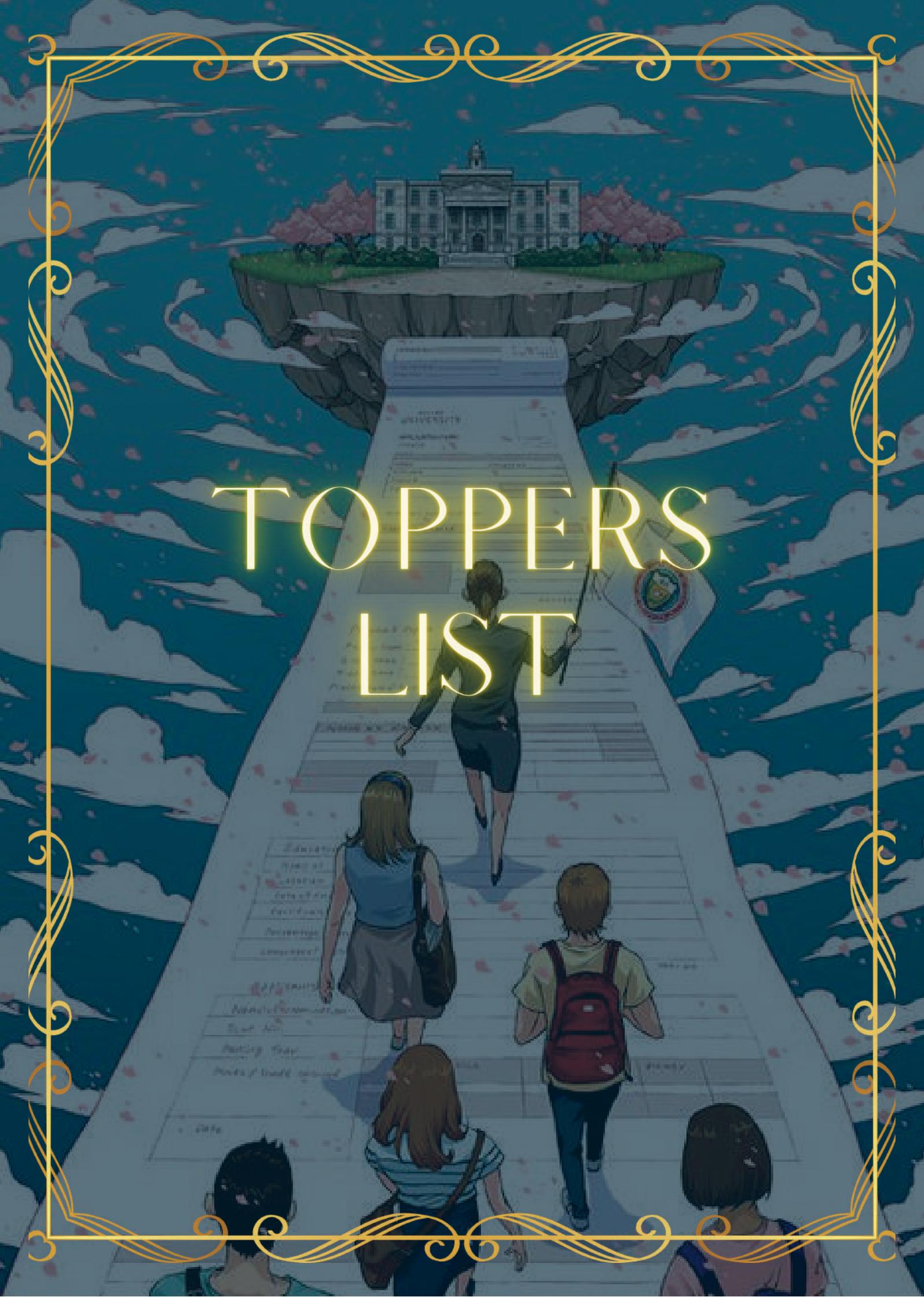
ConneXIEon 2023 strives to be instrumental; with the theme of 'Enchanting Chronicles' beautifully brought out together through a melange of all its sections. From 'Rising from the Ashes', to taking you on a nostalgic trip of 'Childhood Dreams and Stories', the 'Marvels of Science and Technology', as well as the creative touches of picturesque architectural grandeur. And a look back into the past year perfectly encapsulating the Chronicles of XIE!

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 a successful culmination ConneXIEon 2023's story. Heartfelt gratitude to the students, staff, and all the contributors to the magazine for enriching this year's edition. Kudos and cheers to my fantastic team- the ConneXIEon Committee; who channeled their best potential to write this fulfilling Chronicle!

Many thanks to everyone for helping write ConneXIEon 2023's enchanting chronicle.

TOPPERS LIST



FE TOPPERS

RANK	NAME	FE (SEM. II) SGPA
EXTC		
1	PATIL ARYAN VIKAS SUJATA	9.90
2	LOPEZ JOSHUA BRIAN CHRISTINA	9.85
3	PAWAR SAKSHI SANTOSH SANDHYA	9.30
COMPS		
1	ADITYA AKHILESH PATEL RITU	9.90
2	MISHRA NILESH AWDHESHKUMAR KANCHAN	9.70
3	NADAR MAHESHWARAN GANESHAN DHANALAKSHMI	9.55
IT		
1	SARAP RAKSHITA RAHENDRA RASIKA	9.60
2	JAIN HARSHIT OMPRAKASH KUSUM	9.55
3	VISHWAKARMA SUMIT LALLAN SHAKUNTALA	9.45

SE TOPPERS

COMPS	RANK	NAME OF THE STUDENTS	CGPA
	1	AGARWAL VANSH AANCHAL	9.75
	2	GUPTA YASHIKA KAMLESH SUJATA	9.58
	3	ALVARES YULETTE ROSELLE BLOSSOM	9.50
	4	GOSWAMI SHIVAM PR SUNITA	9.25
	5	BANKOTI AMAN GHANSHYAM SARITA	9.17

IT	RANK	NAME OF THE STUDENTS	CGPA
	1	PAWAR TRUPTI CHANDRAKANT	9.87
	2	SHARMA ANSHUMAN SHYAMPHAL DEEPSHIKHA	9.74
	3	MISHRA ADITYA RATAN MEENA	9.52
	4	SABAT KRISHNA RAJENDRA SANJUKTA	9.39
	5	PARDESHI VANRAJ SURESH MEENA	9.35

EXTC	RANK	NAME OF THE STUDENTS	CGPA
	1	SALVI SWARASHREE RAJEEV RADHIKA	9.00
	2	SHENVI AISHWARYA RAVINDRA RUTVIJA	8.58
	3	DAGADE PRAJAKTA RAMESH RUPALI	8.38
	4	BAVDANE MANDAR SANJU LAXMI	8.25
	4	CHINTAKINDI AKASH PRAKASH GEETA	8.25

TE TOPPERS

	Rank	Name of the Students	CGPA
COMPS	1	KULKARNI DIVYA PRAKASH REVATI	9.87
	2	MACWAN MICHELLE JOHN ARPANA	9.61
	3	ANABATHULA MONIKA GOVARDHAN MADHAVI	9.35
	3	SINGH AANSHI SANTOSH	9.35
	4	BANGAR SANIKA MADHUKAR MEENA	9.30
	4	KHANDEKAR ANIRUDDHA VINAY MRUNAL	9.30
	5	PATIL CHINMAYEE PARAG ANUPREETA	9.26
	5	WARANG MAYUR MAHADEV MAYURI	9.26

	RANK	NAME OF THE STUDENTS	CGPA
IT	1	REGE MITESH PARIMAL AMRUTA	9.86
	2	GUPTA PRARTHANA SURESH KUMAR VANDANA	9.73
	2	GUPTA SONAM BABULAL USHA	9.73
	3	BHATTAD SHUBHAM SAMPAT LALITA	9.55
	4	SUNNYMON STEFFIN ANNAMMA	9.50
	5	SARDA ARYA SHARAD SONALI	9.45
	5	YENNUWAR SIDDHARTH VIJAY	9.45

TE TOPPERS

	RANK	NAME OF THE STUDENTS	CGPA
EXTC	1	DABHOLKAR VINEET PRASHANT TEJASHRI	10.00
	1	DICHWALKAR MIHIR MAHESH MANSI	10.00
	2	BHATTACHARJEE NITISH RUPAK SUJATA	9.86
	2	SHAIKH TANZILA SHAMEEM SHAMEEMA	9.86
	3	DSOUZA ROLAND ROSHAN THERESA	9.45
	3	JOSHI ADWAIT SHEKHAR MANISHA	9.45
	4	GULERIA RITESH ASHOKKUMAR ANJNA	9.41
	4	SHETTY PRAGATHI KARUNAKAR SUMAN	9.41
	5	WAICHOL ADITYA SUNILRAO PRITI	9.23
	5	/ DAS NAYANIKA DEBOBROTO SRABONI	9.23

BE TOPPERS

BRANCH	RANK	NAME OF THE STUDENTS	CGPA
I.T	1	GHARAT HIMANSHU MAHENDRA HEMLATA	9.90
I.T	2	GUPTA REETIK BALGOVIND RADHIKA	9.75
I.T	3	SHAH RAJ JIGNESH RINA	9.48
I.T	4	SHETTY SHARAN ASHOK POORNIMA	9.43
I.T	5	HAIDER FARMAN SHABIH NAAZ	9.39
COMPS	1	PATIL ABHIRUCHI ABHINANDAN ARCHANA	9.77
COMPS	2	RANE SRUSHTI RAVINDRA SAMAPDA	9.69
COMPS	3	SHAIKH HEEBA AZHAR AFROZ	9.67
COMPS	4	MATHKAR JANHVI ANIL HARSHADA	9.64
COMPS	5	FERNANDES KEVIN PETER ANNIE	9.60
COMPS	5	POOJARI MAHESH YELLALINGA SHIVNGAMMA	9.60
EXTC	1	SHARMA KAVITA TAPESHWAR KEWLA	9.47
EXTC	2	MATKAR SAMPADA DEEPAK ALKA	9.17
EXTC	3	LABDE YOGITA NETARAM SUMAN	9.16
EXTC	3	MUTHU JYOTHIKA NARAYANAN SELVI	9.16
EXTC	3	YADAV BHAVESH VIJAYKUMAR KAMLA	9.16
EXTC	4	NAICKER KISHOREKAMALESH RAMDAS MADHESWARI	9.12
EXTC	5	JADHAV NISHA SUNIL ASHA	9.06



COUNCIL
INTERVIEWS

COUNCIL MEMBERS

SHAUN MASCARENHAS

GENERAL SECRETARY

How do you see your role in the council and its significance?

I am honoured to be appointed general secretary for the current year. I perceive myself as a team leader who guides the council to better our institute. As the link between the faculty and students, I strive to achieve coordination between the students and the faculty. I listen to the qualms and ideas of the students to assist them and actualize their wishes. My role as a general secretary allows me to be associated with distinctive individuals, understand them, and try to assist them.

We have been seeing you take on responsibilities since the beginning. How have you managed to maintain a work-life balance?

The role of general secretary comes with various responsibilities. It ranges from interacting with individuals to managing events. The role of a GS shouldn't affect one's academics, and hence it is essential to keep a healthy work/life balance to avoid burnout. Before applying for the position, I tried to understand what responsibilities this role would encompass and how to manage my curriculum around them. After figuring this out, I was able to divide my time between both. I found balancing my work and life very easy as I have a strong and innovative council team supporting me throughout my journey.



ROHAN SINGH

ASST. GENERAL SECRETARY

You have been managing these colossal tasks along with our GS. So what motivated you to take up such an important challenge?

I have previous experience in the Student Council as the red house captain of my school. Being a part of the council has helped me develop and hone different skills like leadership, teamwork, personal management, goal setting, communication, and public speaking. All these qualities have helped me boost my confidence and improve my decision-making process in my day-to-day life. Furthermore, the support from my friends, seniors, and teachers encouraged me to apply for this post.

What are some of the new ideas that you intend to bring to the table?

Being the assistant general secretary, I will help the students in every possible way by planning and organising seminars regularly to develop different qualities and the required skill sets for the future.

I would like to lead on some major campaigns, strategic development projects, and events for the benefit of our institution, using the leadership and teamwork skills that I have gained during this time.

COUNCIL MEMBERS

SHREYA WADKAR

CULTURAL SECRETARY



What is your take on culture and its significance in our lives?

Culture is an intrinsic value that provides important social and economic benefits. Participation in cultural life is necessary for young people to gain an understanding of their own culture and that of others, which in turn broadens their horizons, strengthens their ability to peacefully resolve conflicts, fosters respect for cultural diversity. Culture is something that has been embedded in our lives for a number of past generations, and it will continue to be for years to come.

What were some of the good things implemented by your predecessor, and what new ideas are you bringing to the table?

One of the recommendable qualities of my predecessor was the ability to face the challenges that came with online events with grace. This inspired me to face challenges head-on and manage to think outside the box. XIE being a technical institute, we wanted to develop cultural activities that provide a channel for reinforcing the lessons learned in the classroom, offering students the opportunity to apply academic skills in a real-world context. We have focused on bringing students, together in ways that stimulate lifelong learning and community interaction by promoting a vibrant campus experience through numerous activities.



KARAN SHARMA

JOINT CULTURAL SECRETARY

As recent as it is, you have been given many responsibilities in a short amount of time. So what challenges have you faced from them, and what advice would you give to your council members?

The challenges I have encountered are the numerous changes I have had to make to my working method or the way I execute things in order for others to be in tune with it and understand me fully for a better outcome. One piece of advice I would give my council members is that the more we speak, the better we will be able to communicate our ideas to each other.

We know that you were recently appointed as the joint cultural secretary, but we would like to know about your experience so far.

It amazes me that people approach me for quick-fix solutions. I stay on my feet to perform better than last time and to complete my work quickly and in a more polished way. Overall, this experience challenged my ability to make decisions and my team management skills, which was very helpful and insightful not just for me but for my entire team.

COUNCIL MEMBERS

PRATIKSHA SARVANKAR

ASST. CULTURAL SECRETARY



What are some of the major qualities that are required of a person handling your role?

One of the most important characteristics is the ability to make decisions and have good management skills to put those decisions into action. It's also important to have good conversational and problem-solving skills so that you can handle any situation with ease. It is essential for team members to work well together and have solid time management skills so that everything is completed on time.

What advice would you give to the future holders of positions in the cultural sector?

My advice to future cultural sector employees is to develop event management skills while also coming up with innovative ideas. It is important to maintain transparency among team members and acknowledge everyone's opinions within the team along with the efforts that they put in. When you are in this position, you are able to build a lot of knowledge in terms of cultural events, and you also receive feedback from the audiences, which provides you with a lot of experience.



GAURAV VENGULREKAR

SPORTS SECRETARY

What areas in the field of sports do you currently think need improvement?

The foundational requirements for developments in the area of sports are the availability of high-quality sporting equipment and well-maintained gymkhanas. The athletes that compete in different sports need to assess their sportsmanship and respect for everyone, including their opponents, as the most crucial area for growth.

How important do you think an athlete's public image is?

Outward appearance is a reflection of who they are while they stand on and off the ground. The character and confidence of an athlete on the field are impacted by his public image. No matter how skilled a player is, he needs to maintain a positive attitude.

COUNCIL MEMBERS

CHRIS GEORGE

JOINT SPORTS SECRETARY



What's the best piece of advice you have gained in your sporting career?

I've had an inclination towards sports ever since I can remember. The piece of advice from my school coach that has really stuck with me since the beginning is "Passion first, and everything will fall into place." It's well known that practice makes perfect and that good things take time. If we really want to be good at something, we need to be dedicated and give it our best.

What's your view on gender inequality in sports?

In today's world, sports are somewhat of a religion. Although sports bring people together, they also create a gender divide due to the bias and stereotypes that are portrayed for each gender. There is not just inequality in participation and opportunity but also in pay. Female athletes are proving our society wrong time and time again, and although they're playing and fighting for what they believe in, our society needs to change their mindset. We are still incredibly behind in achieving equality between men and women, but if we raise our voices and take a stand, we can bring about change.



ATHARVA GHODKE

ASSISTANT SPORTS SECRETARY

What are you going to change tomorrow to be a better sports secretary or player than you were today?

In order to work independently and in a team setting when need be, A love of sports is required. The athlete must be creative, self-motivated, proactive, and responsible. Supporting the team in programme scheduling, promotion planning, execution, and documentation is extremely essential. These are a few initiatives I would take to be a better player and sports secretary than I am today.

If you had to choose one skill to improve, what would it be and why?

My advice to aspiring athletes is to have a strong passion for sports. A strong foundation is advantageous, but whether organizing or participating in an event, charisma and energy levels should always be high. Keeping strong ties with your fellow council members and administrators is another crucial part. Just enjoy yourself and your work!

COUNCIL MEMBERS

AHSAAS SRIVASTAVA

TECHNICAL SECRETARY

What are some of the recent technical innovations that have amazed you and that you would like to be a part of?

As a tech-savvy individual, new technologies pique my interest.

The James Webb Telescope has recently amazed me. I'd like to be a part of the team that processes the telescope's images. I'd also like to be a part of the ISRO's Gaganyaan Mission and NASA's Artemis Program. As an engineer, I want to help design space capsules and powerful engines. I'd also like to work on projects that use machine learning technology to create intelligent systems that mimic the human brain.

What are the various challenges that you have faced, and what advice would you like to give to the future technical secretary?

My team and I have already held a few events but there were several stumbling blocks we had to overcome. Along with my ATS, Mervis, I assembled a fantastic team of technical administrators and HODs to assist us in organizing and managing our work. My advice to future technical secretaries is to stay calm and pay attention to what their peers and classmates want. Also, conduct hackathons and coding marathons to help students improve their academic profiles and skills.



MERVIS MASCARENHAS

ASST. TECHNICAL SECRETARY

How has this role impacted you on a personal level?

Being appointed as assistant technical secretary has significantly altered several aspects of my daily life. One of my biggest accomplishments is overcoming the obstacle of managing my employment and my education. Additionally, I've learned time management skills and I'm quite delighted to have this position.

Tell us the gist of your dream project.

Making a website and app that aids students in their academic performance, attendance, and submission is one of my dream projects. It's an efficient tool for keeping track of attendance so the student may monitor the number of hours missed. Additionally, it determines whether the student is on the list of defaulters. Daily quizzes on the subjects are given so that the students can discover their areas of weakness and can receive feedback from the teachers. The ability for parents and instructors to see the student targets and track their progress is another advantage of this tool.



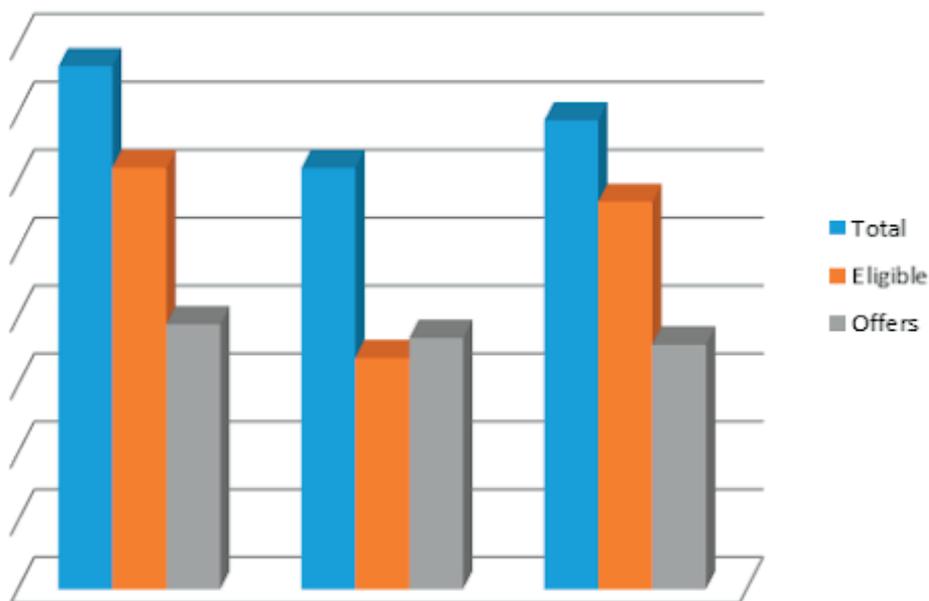
REPORTS

TRAINING AND PLACEMENT CELL

It's with great Zeal I'm presenting the placement report for 2022-23 batch. We started with placement for current batch in the month of July 2022.

The Placement for the year 2022-23 has been moderately good. Amidst a year of big tech layoffs and looming global recession, the batch of 2023 Xavier Institute of Engineering has bagged 66 total offers till now for the 153 eligible students. Out of these 5 offers are for INR 12 LPA, 22 offers of INR 8.5 LPA and about 33 companies have visited so far. The Results of the companies like TCS / Infosys who are the mass recruiters are still pending and expected in near future.

Placement Statistics 2022-23



MR. NAVEEN KUKREJA

NATIONAL SERVICE SCHEME

The NSS unit of Xavier Institute of Engineering encourages students to participate in various government-led community service activities and programs. The motto of the National Service Scheme is "NOT ME, BUT YOU."

TOTAL VOLUNTEERS: 29

Dadar railway station is located.

Summary: This activity was organised on the occasion of Independence Day, Azadi Ka Amrut Mohotsav. It was conducted under the auspices of XIE and Parmarth Seva Samiti Mumbai. The aim was to collect 200+ blood units, and 233 units were successfully collected, creating a record unmatched in the past.

Parmarth Seva Samiti honoured the XIE NSS Unit on October 7, 2022.

BLOOD DONATION DRIVE



MONORAIL STATION CLEAN-UP

LOCATION:

Dadar East monorail station and Ambedkar Nagar monorail station

SUMMARY:

The volunteers were divided into two groups and actively participated in cleaning dry waste, with brooms, safety nets, and gloves on hand to complete the task successfully.

TOTAL VOLUNTEERS: 33

LOCATION: XIE

SUMMARY:

The NSS unit of XIE organised the Independence Day Program on August 15, 2022, to celebrate the completion of 75 years of independence, Azadi ka Amrut Mahotsav. On this occasion, certificates and mementos were awarded to the outstanding students and alumni (2021-2022) of XIE.

INDEPENDENCE DAY PROGRAM (15 AUGUST)



BEACH CLEAN-UP DRIVE

Location: Worli Koliwada

SUMMARY: The NSS-unit of XIE organised a beach clean-up drive in collaboration with the Indian Coast Guard and "My Green Society" on the occasion of "International Coastal Cleaning Day." The NSS volunteers helped collect plastic waste totalling 457 kg of litter.

This activity made the NSS volunteers understand how the disposal of plastic affects the natural surroundings and why it is necessary to dispose it off properly.



NATIONAL SERVICE SCHEME

"Breast Cancer Awareness Month."

TOTAL VOLUNTEERS: 33

LOCATION: XIE

SUMMARY: A webinar on 'Breast Cancer Awareness' was organized via Google Meet. The webinar conveyed the importance of good health and the risk involved in breast cancer and its prevention and care. The speaker of the event was Dr. Daxa Thakkar, a senior medical officer at the Asian Cancer Institute in Mumbai, India. The speaker talked about the Breast cancer symptoms, causes, stages, diagnosis and treatment.

BREAST
CANCER
AWARENESS
MONTH."



Financial Literacy Webinar

TOTAL VOLUNTEERS: 50

LOCATION: H.R. College of Commerce and Economics

SUMMARY:

The speaker of the event was Ms. Riya Naithani, who aimed to educate and sensitise youth about financial concepts that will help them manage their money better. The audience got to know how investment can be done smartly. Everyone was advised to keep a tab on the articles of money control to know about the changes in the financial markets.

FINANCIAL
LITERACY
WEBINAR

"Webinar on 'Challenges faced by today's girls'

TOTAL VOLUNTEERS: 200

Location: Government Law College, Mumbai

Summary: The Government Law College organised a webinar on 'Challenges Faced by Today's Girls' in collaboration with the NSS Unit on account of National Girl Child Day on January 25, 2022.

The session was conducted as a webinar through Zoom and was an attempt by the college to enrich the audience with the importance of the challenges faced by today's girls and how we can overcome them and to reaffirm the commitment and further strengthen the ongoing efforts to empower the girl child

"WEBINAR ON
'CHALLENGES
FACED BY
TODAY'S GIRLS'



CAMP ORGANIZED
BY THE NSS CELL
OF THE
UNIVERSITY OF
MUMBAI



COMPUTER SOCIETY OF XAVIERITES

The Computer Society of Xavierites (CSX) allows students to exchange information and share ideas of current technology among themselves. It includes activities such as guest lectures, workshops, project exhibitions, competitions etc.

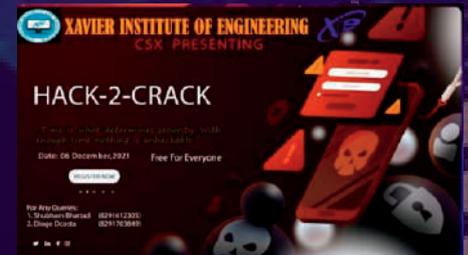


Webinar Cyber Threat & Intelligence



The winners of this Hackathon were Kriti Goel (BE EXTC), Vrishab Shetty (TE COMPS) and Kavita Sharma (BE EXTC) who bagged the 1st, 2nd and 3rd place respectively.

HACK 2 CRACK



PATH FOR PYTHON



RAPID THINKER

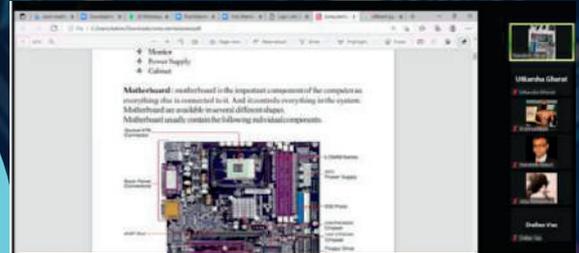


The winners of this competition are :
FE-1st place: Pon Adityan Jeyamurugan
Runner up: Mark Fernandes
SE-1st place: Trupti Pawar (SE-IT)
Runner up: Vanraj Pardeshi (SE-IT)
TE 1st Place: Rahul Gaikwad (TE-IT)
Runner up: Ajit Jena (TE-IT)

COMPUTER SOCIETY OF XAVIERITES



COMPUTER ASSEMBLY WORKSHOP



INTRODUCTION TO BLOCKCHAIN TECHNOLOGY



ENGINEERING AND CORPORATE LIFE

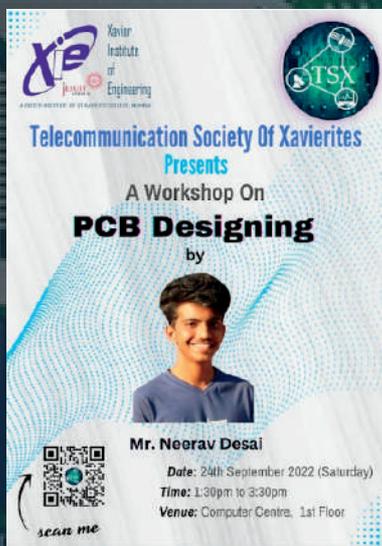


WIZARDS OF CREATION



TELECOMMUNICATION SOCIETY OF XAVIERITES

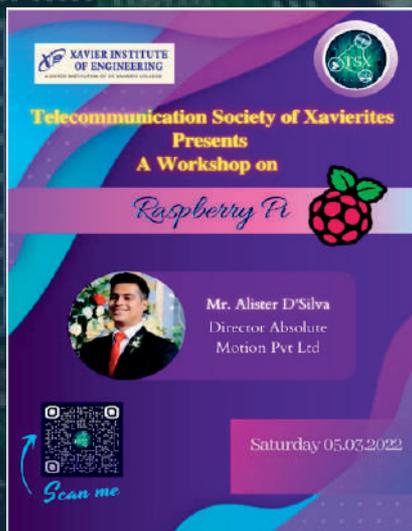
The Telecommunication Society of Xavierites aims to gather together creative minds to understand and implement innovative technologies as well as impart technical knowledge of the contemporary trends in technology and innovation and create opportunities for students to grow.



Telecommunication Society Of Xavierites Presents
A Workshop On PCB Designing
by **Mr. Neerav Desai**
Date: 24th September 2022 (Saturday)
Time: 1:30pm to 3:30pm
Venue: Computer Centre, 1st Floor



Mumbai, Maharashtra, India
Xavier Institute of Engineering, 2RWR+3PJ, Mahim Causeway, Opp
Rahaja Hospital, Mahim, Mumbai, Maharashtra 400016, India
Lat 19.045415°
Long 72.841944°
24/09/22 01:44 PM GMT +05:30



Telecommunication Society of Xavierites Presents
A Workshop on Raspberry Pi
by **Mr. Alister D'Silva**
Director Absolute Motion Pvt Ltd
Saturday 05.03.2022



Mumbai, Maharashtra, India
5/B, Mahim - Sion Link Rd, New Mahim Police Colony, Fisherman colony, Mahim, Mumbai, Maharashtra 400016, India
Lat 19.045011°
Long 72.842147°
11/03/22 04:50 PM



Telecommunication Society of Xavierites Presents
A Workshop on PCB Designing
Speaker: **RAHUL D. DHEBRI**
Hardware designer at Aumnatic Systems
Timings: 1:30 pm onwards
Date: 11. March. 2022

CONVOCATION CEREMONY 12TH MARCH 2022

XIE's 13th Convocation Ceremony for the batch of 2021 was held in a grand celebration on 12th March 2022 on the college main ground. On the occasion, the newly built food court and the newly installed EV chargers on campus were also inaugurated by the guests. XIE's official college magazine, ConneXIEon 2022 was also launched. The top three rankers from each department were felicitated and all the graduates were awarded their degrees by the Chief guest and the guests of honor. The Joan and Frank Trocki Scholarship for the differently-abled graduate was awarded to Mr. Tejas Relekar from IT. The Valedictorian- Best Student of the Year award was won by Mr. Abhishek Sharma from IT who was awarded The Joan and Frank Trocki Scholarship of Rs. 30,000/-. The NSS volunteers of the outgoing batch were also felicitated with certificates.

Venue of the event: College Main ground

Guests for the event:

Chief guest, Dr. Hari Balaji N. IPS

Guests of Honor Rev. Bishop Barthol Baretto

Rev. Fr. Dr. Thomas Schwarz SJ

Mr. Maxon Lewis, CEO of Magenta

Mr. Shahrukh Contractor, President of Champion School

Rev. Fr. Lancy Prabhu SJ, Director of Centre for Spirituality and Dialogue

Rev. Fr. David Roy SJ, a PhD student at Marquette University

Rev. Fr. Albert Menezes SJ

Director, Fr. Dr. John Rose SJ

Principal, Dr. Y.D. Venkatesh



Ted x XIE 2022

12TH MARCH 2022

The TED XIE online event was centered around the theme “Infinitus”, which embraced speakers and talk from all backgrounds and encouraged a limitless flow of ideas. Even though the event was virtual, students gathered in the college library in large numbers on the day of the event to have a screening. Fr. Dr. John Rose SJ and Dr. Y.D. Venkatesh graced the event with their presence and appreciated the talks, which boosted the morale of the students. Mr. Aman Dhattarwal’s live talk was widely appreciated by the student community in the audience. The speaker's Q&A round was interactive with eager questions from the attendees. Also, all attendees received amazing vouchers worth 500 rupees in total from the sponsors Geek for Geeks and Shop Requiem.

Time and Platform: 3pm to 6pm over Airmeeet platform.

**Theme for the event: Infinitus
Speakers for the event:**

1. Mr. Ganesh Gangadhar
2. Mr. Aman Dhattarwal
3. Mrs. Siji Varghese
4. Dr. Pradnya Patil
5. Mr. Gladson Peter
6. Mr. Lloyd Mascarenhas

Organizer: Arya Sarda

Co-Organizer : Stephen Wallance



NBA VISIT

4TH 5TH AND 6TH NOVEMBER 2022

The much-awaited NBA visit finally took place on 4th, 5th, and 6th November 2022. The EXTC and IT departments submitted a pre-qualifier and a Self-Appraisal Report in 2021 to request this visit. The NBA visit began on the 4th of November, 2022. Fr. Dr. John Rose SJ, the director, Dr. Y.D. Venkatesh, the principal, the HoDs, stakeholders, faculty co-ordinators, and staff all extended a warm welcome to the committee. A chairman and four judges from illustrious institutions around the nation made up the NBA committee. The Chairman of the NBA committee visited the central facilities and the first-year labs with the Principal and NBA-coordinator, Prof. Kunal Meher, and engaged in conversation with the first-year faculty members. The committee talked with students, teaching, administrative, and non-teaching personnel, and observed faculty lectures and project presentations over the course of two days. The Chairman also held separate sessions with parents, alumni, companies, and students. On the 6th of November, 2022, the NBA committee's chairman and members conducted the Exit Meeting, during which they provided constructive criticism and expressed gratitude to the college for its kind hospitality. Xavier Institute of Engineering has been accredited by the NBA. The accreditation was received in December 2022.



INTERFAITH COMMITTEE

The force and the strength for peace will come from people. And that will happen when people start to realize that all the diversity and differences we see of nationalities, of religions, of cultures, of languages, are all beautiful diversities, for they are only on the surface. And deep down we share the same humanity, the global humanity. - Satish Kumar

The Interfaith committee of XIE comprises of staff belonging to different religious faith. The committee members promote positive, meaningful relationships across differences to build a community and contribute to a more accepting campus environment and a more peaceful world.

The word “reopen” technically means to open again. But “reopening” can also be about opening ourselves to new ideas and behaviors that make our communities stronger and more inclusive. Back on campus after the pandemic, the Interfaith committee organized a session on ‘Discernment’ for XIE staff at St. Xavier’s Campus, Andheri on the occasion of Feast day of St. Ignatius Loyola. Discernment is at the core of Ignatian Spirituality. Pondering and noticing interior movements of attraction and heaviness are at the heart of Ignatian discernment. Discernment involves prayer and weighing facts and feelings about the several good choices which ultimately leads to a choice about what is the best fit for an individual.

On occasion of the feast day of St. Francis Xavier, sports were organized for staff at Xavier’s Sports Complex on 3 rd December 2022. Sports occupy a vital role in our lives. They keep us fit, healthy and active. The secret to having a healthy and positive lifestyle is to have a positive mind and body. Sports are one such activity that help us in maintaining a proper physique and a positive mind-set. Sports also help us in alerting our senses, keep us aware and nurture an undaunting personality and outlook on life. Hence, sports have a multi-faceted role in our lives.

“Every one of us is, in the cosmic perspective, precious. If a human disagrees with you, let him live. In a hundred billion galaxies, you will not find another.”

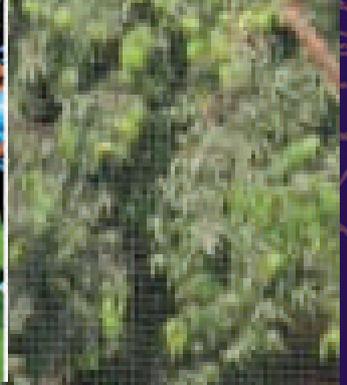
— Carl Sagan

Prof. Martina D'souza

Co-ordinator, Interfaith Committee

INTERFAITH COMMITTEE

PICTURES FROM ST. XAVIER'S SPORTS DAY



WOMEN'S DEVELOPMENT CELL

W O M E N S

The Women's Development Cell of XIE supports the overall wellbeing of the college's female faculty, staff, and students. For the purpose of promoting general awareness and preparing students, teachers, and non-teaching staff for their sustained and active engagement in the activities of Cell, the cell arranges seminars and workshops. This raises public awareness of women's issues, particularly that of gender inequality. The cell organizes various types of training programmes and creates awareness for the encouragement of women.



01

Webinar on Legal Awareness
Date: 23 August 2021

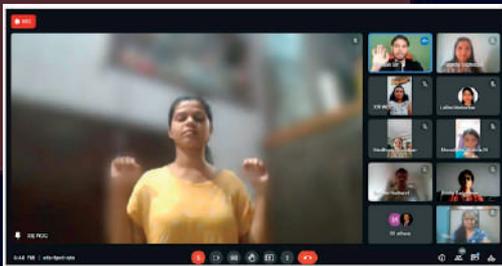
"A KEY TO MENTAL HEALTH" WORKSHOP
Date: 16 October 2021

02



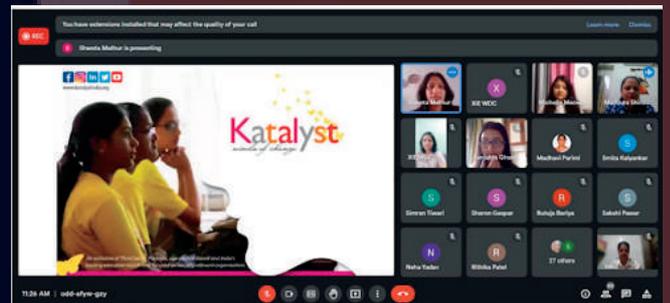
03

Workshop on: "StandUp against Street Harassment"
Date: 6 December 2021



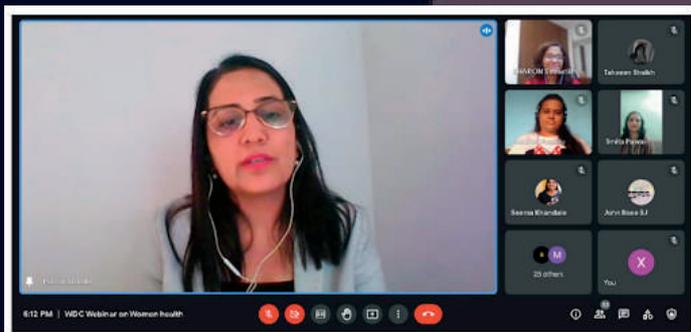
WDC Induction and Orientation Program
Date: 8 January 2022

04



05

WEBINAR on "Women Health:Invisible Illness PCOD" AND Menstrual hygiene
Date: 29 January 2022



WOMEN'S DEVELOPMENT CELL

INTERNATIONAL WOMEN'S DAY CELEBRATION 2021-22

A grand celebration of women's day was organised by the WDC of XIE. The management, faculty, staff and girl students were present for this event. Director, Fr. Dr. John Rose SJ; Rev. Fr. Thomas Schwarz SJ; Rev. Fr. Albert Menezes; and Principal, Dr. Y.D Venkatesh shared their views on the occasion. The chief guest for the event was Dr. Asha Advani, MO, Welkarwadi Dispensary; along with Dr. Sachin Bansode, AMO, Welkarwadi Health Post; and Dr. Dhananjay Sakpal, TB Department. Our Alumna, Ms. Radhika Nair also participated in the celebration and motivated the current girl students. In collaboration with Nirdhar Mahila Sahakari Sanstha Ltd. and the Innerwheel club of Bombay Queen Necklace, the WDC also organised a cancer awareness and medical health checkup camp for women in need from the society. A full physical checkup, eye exam, blood pressure check, and ECG were scheduled. The winners of the WDC Awards, 'Best all-rounder girl student' from the final year, the 'Margrit Schwarz Award' and of the WDC conducted competitions were all awarded on the occasion of Women's Day.

WDC Awards 2022

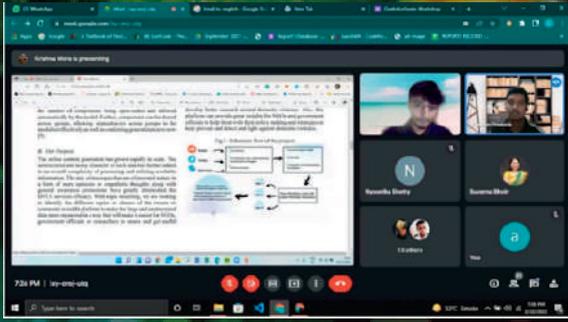
The WDC awarded prizes in categories:

- Woman of intelligence (Winner- Ms. Michelle Macwan)
- Woman of creativity (Winner- Ms. Lysandra D'Souza)
- Woman of Research (Winner- Ms. Priya Harshe)
- The 'Best all-rounder girl student' from the final year (Winner- Ms. Lincy Lois Brian.
- WDC Convener, Prof. Smita Pawar was awarded the 'Margrit Schwarz Award' – conferred for the very first time - for her WDC initiative and leadership.
- Winner of the poster competition- Ms. Khushboo Chaudhari
- Winner of the poetry competition- Ms. Christel Mendon
- Winner of the essay competition- Ms. Kritika Singh.



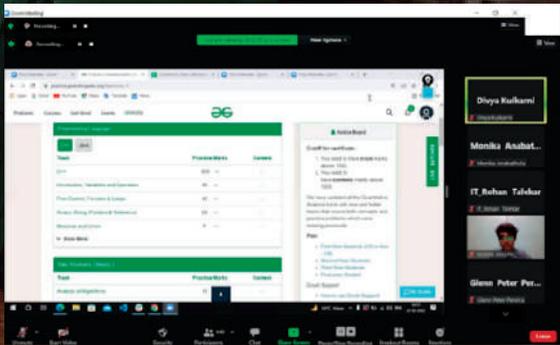
TRANSMISSION

2021 - 2022



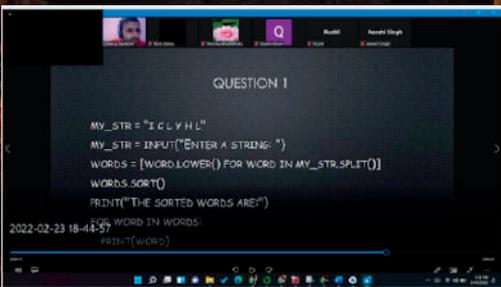
PAPER PRESENTATION:
1st-Prathamesh Jawale
2nd-Subhadeep Sahoo

02



**GEEKS FOR GEEKS
WORSHOP**

04



BLIND CODE:
1st-Monika Anabathula
2nd-Kirti Goel

06

22 FEB



01

POKEMON UNITE:
Aditya Waichol



03

ROCKET LEAGUE:
1st-Darren Edelbert
and his team

23 FEB



05

**BGMI: Battlegrounds
Mobile India event**
Khushal Mahesh Dhandhukia
(SOLO)
Sahil Sandeep Rewale
(SQUAD)

TRANSMISSION

2021 - 2022



COD:

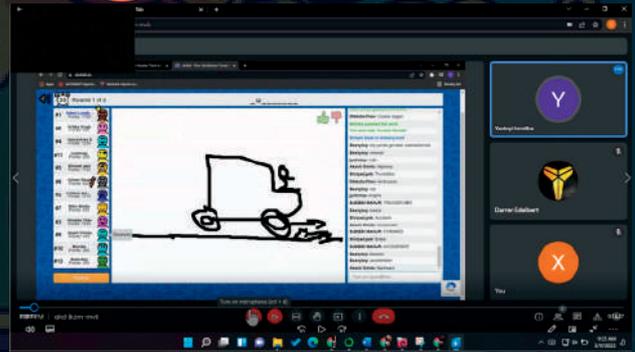
1st-Dhruv Jadhav
and his team from
Peoples Education Society
Thane.

08

24 FEB

07

CONNECT4:
1st-Macwin Aranha



SKRIBBL:

1st-Chris George

09

25 FEB

10

MINI PROJECT EXHIBITION:

SE Merisa Mashcarenhas
TE Ajit Jena
BE Neville Norbert Rego



CODE NAMES

11

26 FEB

GROUP DISCUSSION:

1st-Yulette Alvares
2nd-Kritika Singh

12



PROJRCT EXHIBITION

1st-Neville Norbert Rego
2nd-Ashutosh Choudhary
3rd-Aditya Waichol

13



TRANSMISSION

2021 - 2022



VALORANT:
Mr. Yadnyt Londhe and his team.



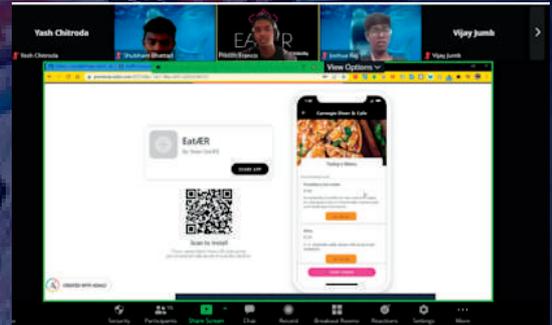
MOCK SHARK TANK:

- 1st-Dilton D'souza
- 2nd-Sarthak Sonawane

27 FEB

14

15



2022 - 23

23 SEP

GAME OF TECH

WINNERS

- 1st-Yulette Alvares, Vansh Agarwal, Jovian Dsouza – TE COMPS
- 2nd-Sarvesh Chavan, Krishna Sabat, Tanvi Bhabal – TE IT
- 3rd-Ishan Vaghela – SE IT

16

SPOT PRIZE WINNERS:

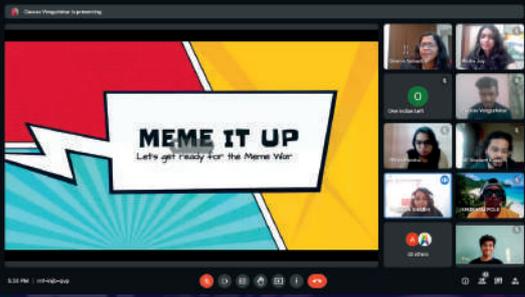
- Saish Rane
- Anisha Prabhu and Arfaat Hashmi
- Nesan, Raj Thakur and Vishal Mamluskar
- 17 Omkar Wadkar, Dhruvil Tailor and Ahmed Jagirdar
- Bryan Anthony

17



SPANDAN

2021 - 2022



MEME IT UP:
1st- Shailesh Teddu
2nd- Manish Kumar

22 FEB

01

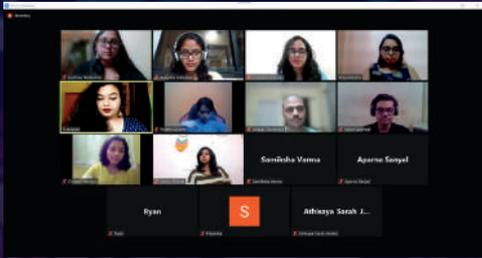


WORD GAMES:
Parthamesh Yadav

23 FEB

02

TWIST THE TALE:
1st-Yulette Alvares
2nd- Vansh Agarwal



BATTLE OF BALLADS:
1st-Christel Mendon
2nd- Khushboo Chaudhari

24 FEB

04



SHORT FILM:
Naman Agnihotri

05

POETRY SLAM
Lysandra D'souza

06

25 FEB

SERIES TRIVIA:
Seona Paranjape & Sruti K

SYNCHRONIZE:
WESTERN
1st-Shruti Shrikant Iyer
2nd-Karen Rodrigues

07

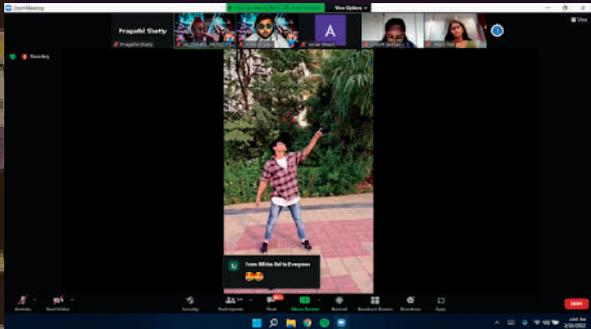


08

REGIONAL
1st-Khushi Chauhan
2nd-Anuraag Mukherjee

SPANDAN

2021 - 2022



FASHION SHOW:
1st - Prathamesh Dhone & Iqra Khan
2nd - Priyanka Singh

10



BATTLE OF BALLADS:
1st - Atharv
2nd - Rickson Castelino

12

DEBATE
Rachel Manajaly & Uzma Kapadia

14

26 FEB

09

SOLO DANCE
1st place - Lalita Grover & Kunal Naik
2nd place - Rushabh Motiya

27 FEB

11

MONO ACTING:
1st - Ms. Sejal Khandekar
2nd - Ms. Megha Sanyal

13

PHOTOGRAPHY EVENT:
1st - Mrunal Vijakumar Veshi
2nd - Sagar Deware

WTG!!



**SPANDAN
OTHER EVENTS**

2021 - 2022

ABOUT THE ARTIST SKETCHING

Winner – Abhishekh Gupta
Runner Up – Tanvi Keni

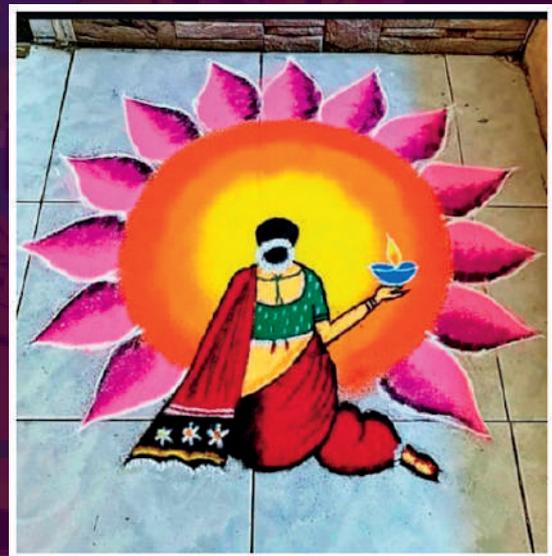


PAINT ATTACK

Winner – Pranita Golambade
Runner up - Shruti Bhandari

RADIANT RANGOLI

Winner – Shreya Wadkar
Runner up - Deepak Shah



XIE IIC

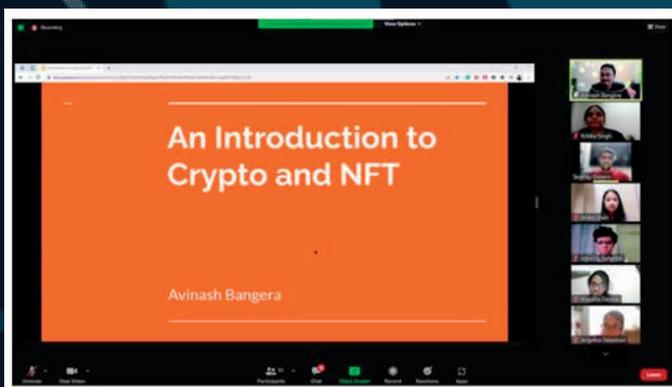
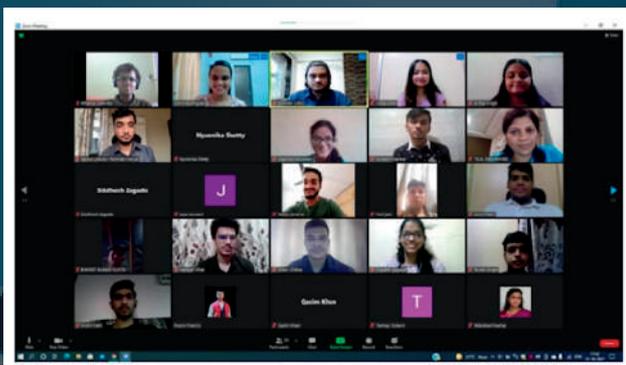
In order to promote the culture of innovation and start-up ecosystem and to motivate students to do research and create technologically creative concepts that would advance society, the Institute's Innovation Cell was established in our college. Some committees that come under the IIC are Innovation cell, start-up, social media cell, IPR activity and internship

The XIE Intellectual Property Rights (IPR) Activity Cell, in conjunction with the XIE Institute's Innovation Council, presented a seminar on "Patent Filing" on September 23, 2022 at the Seminar Hall. Dr. Kranti Ghag, Associate Professor at D. J. Sanghvi College of Engineering in Mumbai, delivered the seminar. She described the patenting processes and its usefulness. She went into greater depth on how to write a patent application and the full filing method.



ALUMNI CELL

In order to promote the culture of innovation and start-up ecosystem and to motivate students to do research and create technologically creative concepts that would advance society, the Institute's Innovation Cell was established in our college. Some committees that come under the IIC are Innovation cell, start-up, social media cell, IPR activity and internship The XIE Intellectual Property Rights (IPR) Activity Cell, in conjunction with the XIE Institute's Innovation Council, presented a seminar on "Patent Filing" on September 23, 2022 at the Seminar Hall. Dr. Kranti Ghag, Associate Professor at D. J. Sanghvi College of Engineering in Mumbai, delivered the seminar. She described the patenting processes and its usefulness. She went into greater depth on how to write a patent application and the full filing method.



Event	Category	Winner(s)	Runner-up(s)
Table Tennis	Boys	Krishna Sabat (SE-IT)	Aman Khakhi (TE-IT)
Table Tennis	Girls	Leanne Dharmmai (SE-COMPS)	Nyuonika Shetty (TE-EXTC)
Fitness Challenge	Boys	Shaikh Shahnawaz (FE-C)	Swaraj Jinagouda (TE-IT)
Shot Put	Boys	Ajit George (BE-EXTC)	Chris George (SE-COMPS)
Shot Put	Girls	Anusha Dhaundiyal (SE-IT)	Nancy Merciline (TE-IT)
Carrom	Boys	Amar Singh (SE-IT)	Moses Fernandez (SE-COMPS)
Carrom	Girls	Leanne Dharmmai (SE-COMPS)	Pragathi Shetty (TE-EXTC)
Arm Wrestling	Boys	Mandar Bavdane (SE-EXTC)	Rigved Harmalkar (TE-COMPS)
Arm Wrestling	Girls	Anusha Dhaundiyal (SE-IT)	Pragathi Shetty (TE-EXTC)

Event	Category	Winner(s)	Runner-up(s)
100m race	Boys	Zakaria Khan (TE-EXTC)	Jonathan Cardoz (SE-EXTC), Yadnesh Meher (SE-EXTC)
100m race	Girls	Pragathi Shetty (TE-EXTC)	Misha Rai (TE-EXTC), Mitali Haldankar (TE-COMPS)
Chess	Everyone	Sumeet Sharma Mandar (TE-EXTC)	Nihar Vira (TE-IT)
Badminton	Everyone	Pragathi Shetty (F), Houston D'Souza (M)	Krishna Sabat (M), Merin Reji (F) (SE-IT)
Carrom Doubles	Everyone	Tanmay Keny and Anirudha Sawant (SE-COMPS)	Mitesh Rege and Shivam Mishra (TE-IT)
Kabaddi	Boys	SE-IT	TE-COMPS, TE-IT
Kabaddi	Girls	SE-IT	TE-COMPS, TE-EXTC
Dodgeball	Girls	SE-IT	TE-EXTC, TE-COMPS

SPARX

2021-22

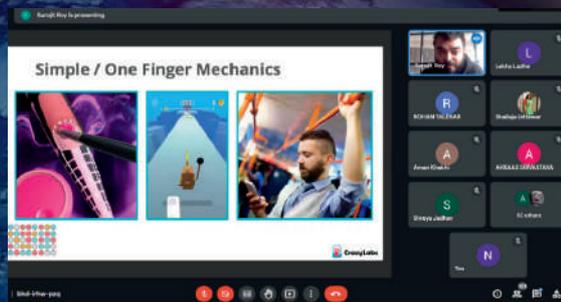
Event	Category	Winner(s)	Runner-up(s)
Volleyball	Boys	SE-EXTC	TE-IT, BE-EXTC
Volleyball	Girls	SE-COMPS	SE - IT
Box Cricket	Girls	SE-IT	SE-COMPS, TE-EXTC
Open Cricket	Boys	SE-IT	BE-EXTC, SE-COMPS
Basketball	Boys	TE-COMPS	SE-EXTC, BE-EXTC
Basketball	Girls	TE-EXTC	SE-IT
Kho Kho	Boys	SE EXTC	SE IT
Dodgeball	Girls	SE-IT	TE-EXTC, TE-COMPS

E- CELL

E-Cell is created with the aim of supporting students at XIE in their entrepreneurial ventures by providing resources, innovative programs and opportunities to connect with mentors and investors.

Date : 24th January 2022
Location: XIE

The company is looking to incubate young start-ups in the space of hyper-casual game development as part of their expansion into India. The speaker, Mr. Surojit Roy who is currently the head of business at CrazyLabs and the co-founder of Firescore, discussed the difference between normal games and hyper casual games



Date : 7 April 2022
Location: Seminar Hall, XIE



The purpose of the event was to motivate students and guide them in order to improve their life and communication skills. The speaker, Mr. Gautam Jain who is one of the top 10 entrepreneurs in Surat, also shared his own experiences and life story

Date : 9 September 2022
Location : XIE

The seminar focused on various aspects of entrepreneurship such as understanding the issues involved in entrepreneurship development, evaluating opportunities for a new venture, etc. The speaker, Ms. Mumtaz Syed who is the CEO of The Sky Explorers and has over 35+ years of industry experience, also talked about her personal journey and how she began her path





ENGLISH

RISING
FROM THE
ASHES

THE MAGIC WITHIN

"And above all, watch with glittering eyes the whole world around you because the greatest secrets are always hidden in the most unlikely places. Those who don't believe in magic will never find it"- Roald Dahl

We take a leap into the world; with our lungs full of strength, a heart full of hope, and a head full of dreams. Oh to be a young dreamer and to perceive the world as your oyster! As children, we are so fascinated by stories, fables, and tales of fairies and magical kingdoms. We longed for a visit from the tooth fairy, or to partake in some 'elfish' mischief, and in goblins, wizards, and magical creatures we believed in. This fascination left traces in our beliefs of real life and shaped our perception of the world. And that is why, as kids, we believed 'everything is possible; whatever we set our minds and hearts to, is achievable. No dream, no miracle too good to be true.

Then walks into 'adulthood' with an ostentatious hit of reality and exposes us to the world's ruthless precarity. All the marvels and magic are left aside as we are engulfed with the mundane and mediocrity. With no more shields to cushion life's harsh blows, we're left with ourselves to deal with everything that life throws at us with strife. And we learn! We learn to deal with it- we learn to chew on the criticism, digest the failures and assimilate to the ever-changing stages of life. And while we are busy learning to keep our head above the water, we immunize ourselves to the cold world around us. So much so that we often miss the departure of the marveling wonder and the dull numbness we incur. We then laugh at the foolish beliefs we held as children. Oh, how silly to believe that magic would exist! Only to realize that the real foolishness is not in those innocent beliefs but in their lack thereof. Toughening ourselves to brave the world, doubting every little move, we very nonchalantly learn to doubt ourselves too. Were we wise when we believed 'anything is possible' or wiser now when even to put a little trust in ourselves we struggle?

Maybe we transcribe our ability to believe in things magical to having faith in our own selves- the living and the real! Just as it takes just a spark to light a flame; it only takes one hint of faith in yourself- even if a tinge- to get you back in your game.

DEMYSTIFYING THE DISREGARDED

Everyone has those moments in their lives when they are unsure of which road to take. Indecisiveness may be the result of a dilemma, but sometimes it stems from something else. Most often, it's a failure from a prior experience. We are held back by those experiences when it comes to trying something new or building something new. "Rising from the Ashes" conjures up images of renewal for me. Renewal somehow conveys hope that we are starting over after an interruption, like getting back up after tumbling.

In the field of technology research, numerous ideas and theories have been put forward throughout its evolution. As opposed to popular opinion, Nicholas Copernicus and Galileo Galilei proposed that the earth revolved around the sun. Copernicus died shortly after the publication of the same book, and Galileo continued the hypothesis. In the aftermath of the publication of the book, Galileo was tortured and tried for his theories. Scientists and researchers have put forth many theories that people disagree with and criticize, only to find out thereafter that the theories were correct.

The technology industry is constantly evolving, and every few years new devices or software are developed for human use. We transitioned from text-only messaging to facetime. Many people today use applications that were originally just concepts rejected several times by potential investors before making the decision to invest. Brian Acton, the co-founder of WhatsApp, had his proposals rejected by prestigious companies before creating the software that is now a vital part of everyone's lives. He was now being pursued by the company that had rejected him previously.

The numerous efforts put forth by these scientists or researchers or developers to convince people that their path is the right one to follow and their belief that it is the right one would not have been possible if they didn't believe in it themselves, so many things would still be unknown to mankind and science and technology wouldn't have reached its current level.

KANAK NIVATKAR

TE-COMPS

HOPE RISES FROM THE ASHES

Let me begin with a quote, *'Our greatest Glory is not in never falling, but in rising every time we fall.'*

Simple in words, but gives us a lot of inspiration and encouragement. Life is not easy for anyone. Right from birth till death, man is continuously struggling because nothing comes easy in life. It's a struggle from the beginning till the end.

We as human beings are so weak, that we tend to give up when things go wrong. We do not want to try further. The word HOPE seems meaningless. But it is at this point that we need to ponder over a very famous quote which holds a lot of meaning. *'Hope rises like a phoenix from the ashes of shattered dreams'*. This phrase means to make a comeback after a disaster that almost left us shattered. In simple words it means, whatever situation you have gone through, don't give up, but be emotionally and physically strong. We need to be like the phoenix which finds its way through the ashes.

We, as infants, learn to walk only after falling several times and once we have started to walk, we don't stop. So, this lesson itself teaches us not to give up. Let's not forget that it's the deepest pain which empowers us to grow into our highest self. It makes us stronger to face life. In fact after failure or after going through unforeseen circumstances, we are more confident of facing the trials that come up in our lives. So whether we remain the ash or become the phoenix, it's up to us.

To conclude *'No matter how many times we burst into flames, we can always rise from the ashes.'*

ERICA DCRUZ

SE-COMPS

NEVER GIVE UP DATTEBAYO!!!

As with every new student who enjoys this year, I began my engineering studies in the eleventh grade and admittedly took certain subjects lightly. This did have an impact on my grades in some subjects and even caused a significant backlog in the preparation for some of my competitive exams. I persisted, but then COVID-19 arrived, ushering in a dark period for the entire world.

We didn't have much opportunity to make close friends in this new place as 11th grade was the only time we spent in college. Since I hardly had anyone to assist me in this situation during online classes, it made things even more difficult. Fortunately, the issue was still minor, and I believed I could solve it like a challenging video game level. However, it wasn't, because the negativity that was permeating in the society in the wake of encouraging COVID results, eliminated the common word from the dictionary for 2020–21. It was incredibly challenging to be able to focus on one item and maintain mental peace. Despite my continued hard work, nothing was evidently better.

The world does not function the way we would like it to, therefore we must learn to adapt and let go. Just use the failure and make fire out of it. It's simple to say, but I watched the popular anime, Naruto, while I was online. This anime really demonstrates that nothing can stop us from achieving our goals if we are determined enough to do so. In addition to Naruto, other side characters like Might Guy and Rock Lee also motivated me to keep working toward my goal despite the lack of progress. So I resumed my diligent study and finished off my backlog. And went on from being unable to achieve any decent results to achieving enough marks to enter the XIE IT department. Additionally, it has been a wonderful time for me to work on my progress, whether I am falling behind or flying ahead.

Just want to say that although the proverb "This too shall pass" is true, action is required to move through that stage.

KUNAL LAL SINGH

SE-IT

RISING FROM THE ASHES

A story about a girl whose dreams were shattered after an accident but rose up again after many struggles.

Adrianna was a young lively girl who wanted to learn new things. She was a curious girl who wanted to know every little thing. Sports and dancing were her passion. She won many awards for it.

One day while she was on her way home, she met with an accident, making her condition critical. She was immediately taken to hospital but she fell into coma.

After two months, she woke up from coma only to get the most disturbing news. Adriana was paralyzed. She couldn't walk anymore. She felt as if her world stopped. Dancing was her way of escape from reality but now she couldn't do anything without her legs. She became depressed.

After a few days, she started accepting her reality. She called her parents and told them her decision to start therapy. Her parents were not sure of her decision since the doctor had said that there were less chances of walking but nevertheless they agreed to it.

With the help of a physiotherapist, Adrianna started taking therapy everyday. It was really tough in the beginning but she never gave up. Finally after three years of her dedication, she was able to move her legs. The Doctor considered it a miracle but it was actually Adrianna's will and struggle that made her walk today.

Just as the Phoenix rose from the ashes, she too rose from her downfall and made a most beautiful comeback. She rose again as a stronger and wiser version of herself.

RHEA FERNANDEZ

TE-COMPS

ESCAPING THE MENACING SHADOWS

What exactly does this statement mean? To be precise, it has a convoluted connotation, and everyone's perception can change greatly. "Rising from the Ashes" signifies more of the journey.....the process that eventually leads us to our destiny (our ultimate goal). To get somewhere, we must leave the zone of self-loathing or even our comfort zone, as it is impossible to ascend if we are more focused on the wounds that we bear. True heroes are those who choose to rise above all adversity and redirect their energies into bettering their own lives and the lives of those around them.

"Out of suffering have emerged the strongest souls, the most massive characters are seared with scars" – Khalil Gibran

There have been times in my life when I was at my lowest or needed motivation. I have always been fortunate to have such role models who changed my perspective on life. All of these role models, whether Jay Shetty, Conor McGregor, or Leo Messi, to name a few, have helped shape the person I am today. Apart from the fact that they are wealthy and famous, they have one thing in common: determination and grit. All of these successful people have had their share of failure in the past, with their triumphant songs usually overshadowing them.

While cleaning up my drawer recently, I found an old diary of mine. Looking through it while reliving memories, I came across a note that read, "Conrad after a few years". I read it with mixed emotions, to see what I wrote a few years ago was still relevant but, I am lagging in what I had expected from myself. As I held the diary close to me, watching aimlessly at the sky, I remembered the day when I wrote that page.....wasn't the best day of my life. Below par performance in a soccer game, twisted ankle, sick, exams around the corner, And I could not do justice to my studies. It is then when my sister took a page and a pen and made me write it down, that was indeed the lowest I have ever been. Right down on the page was written something that gave a spark enough that has turned into a flame now, it said, "Next time when I read this, a better and confident Conrad will be reading this" and suddenly something changed and I continuously try to rise and find my best version. I feel I'm truly rising from the ashes that once held me!!

It's great to have role models, but it's even better to be your role model as you chase the best version of yourself. This is because the hunt is worth it and the reward is priceless. I'd like to leave you with a quote of mine-

" You can't score a goal till you shoot, you can't receive till you ask for it, you can't rise unless you fall "

CONRAD LYNN CALDEIRA

TE-COMPS

RISING FROM THE ASHES

From facing death and being saved at the last moment to breaking stones in the cold solitude of Siberia, the life of the Russian novelist Fyodor Doestevsky is an epitome of "Rising from the ashes". His literary work was largely influenced and chiselled by what he suffered during his exile in Siberia. Being burnt down to ashes may feel daunting and insane at initial naïve interpretations, but when one looks deep into the hidden significance of the sentence, they understand the true meaning of it.

There can be countless metaphors used to explain its importance but what really stands out is the real experience. You see when you burn yourself down to nothing, when you feel you have nothing left in you, that is when you lose your fear of material losses and set out to do something big. When you feel fearless and understand that life is nothing but a short drama and everyone is playing a mere short role, you acknowledge the value of time you have. Breaking yourself is not a vice but a virtue until you know how to put yourself back.

Failure and fall are inevitable for man, but he is certainly not defined by his falls but by his will to stand back up stronger than before, and to achieve that, you need to fall first. Many times, life itself drags you and burns you down to ashes, but sometimes, you need to stab yourself, to grow back stronger. I believe it is not what we learn from books that makes us successful, given your own definition of success, but it is your mistakes that really make you up. To Rise from the ashes, is to rise back strong and to be prepared to face new burns.

SHREYA SINGH

SE-IT

LEFT THE CITY

"You made me hate this city"
So I left and now I'm gone
Mind did just fine
Heart could not move on
After many sleepless nights
And days full of yawn
The homesickness dulled a shade
And I said "GAME ON!"

Made new friends
A group of five
Loved them as a family
Was so naive

The masks dropped
Toxicity came into focus
The bubble called family popped
And now it's just the 2 of us

Fate tried to bring me down
But he had it bad
I don't give up easy
Hustled with all I had

Struggled with academics for a bit
But then I did just fine
Writing, photography and music
Cherished the little hobbies of mine

Don't feel out of place anymore
Looks like this city is growing on me
Made peace with the chaos, for sure
But my soul longs for home

CHETAN KAWALE

SE-EXTC



MY STAR

Well Hello everyone
Welcome aboard this journey of a young one
Someone who started off by being shy and alone
Now being the person he wanted to be, all sculpted by his own

Under the guiding light of his ultimate star
He kept on trying and raised the bar
Battling each fight with all his might
Each scar retold it's war

He never gave in to a setback
because it's a little early for a whack
But took everything seriously
instead of laying back
For with him were his dear ones,
To help him where he lacked

Sometimes days would be bad
maybe even sad
Taking those decisions always troubled that little lad
But for the experience, he was always glad

But when things are all just perfect it's always a happy time
Trusting in himself was one of the reasons he could make it just fine
Never really looked back, just forward and onward, always onto the climb

On this trail many came, many left
Yet he always stuck around till the very end
Sometimes i wonder how he managed to do it
but honestly hats off to you my little friend

Completing your goals and going through the pain
Oh little one that's exactly how you gain
Taking risks, putting real energy, and not in vain
Thank you for the motivation,
And for never letting it rain

MOSES FERNANDES

TE-COMPS

MY ROLE MODEL

A role model is someone you wish to see yourself in. It is a figure whom you revere, whose thinking connects with yours, whose achievements are your aspirations. You look up to them because of the role they play in the society, their aspect and their beliefs.

My role model is Emma Watson. Yes, the Harry Potter girl. Being a potterhead, I've always loved Hermione Granger. Like Hermione, Emma has touched many lives, including mine. Watson is one of the leading activists in the film industry. She is a firm supporter of gender equality and is not afraid to portray that off-screen and onscreen as well. Whether it was Belle's liberalism or Meg's resolve, her roles make an attempt to inspire young female minds.

Today, Emma is the Women Goodwill Ambassador of the UN. One of her biggest achievements is the launch of the HeforShe campaign. The HeforShe campaign is a global effort that seeks to involve men and boys in achieving gender equality. She was one of the first to acknowledge the fact that men too face the consequences of gender stereotyping. In her speech, she said, "I want men to take up this mantle. So their daughters, sisters and mothers can be free from prejudice but also so that their sons have permission to be vulnerable and human too—reclaim those parts of themselves they abandoned and in doing so be a more true and complete version of themselves". Her speech opened new fronts for the campaign.

Emma has provided a new perspective to equality. Her redefined image of feminism is one of the reasons why I look up to her. Her demeanor and conviction is refreshing in today's times. She inspires me to be myself, to voice my opinions, to be bold, to be better.

My message to each one of you is to aspire to be the best versions of yourselves. And in time of doubt, to ask yourselves,
If not you, who?
If not now, when?

SARA DESHPANDE

TE-COMPS

RISING FROM THE ASHES.

No matter how many times
you have experienced pain,
fight to rise from your ashes.

Win your hope back,
soak up all the good thoughts,
and channel them onto love.

You are a phoenix.
Your heart deserves to bloom again.

"The phoenix rises from the ashes," this phrase when it reached my ears just popped an idea that showed a transformation, until I looked it up. According to history, the phoenix is a mythical bird with fiery plumage that can live up to 100 years. As it nears the end of its life, it settles in a twig nest, which burns violently, turning the bird and the nest into ash. And from these ashes, a new phoenix is reborn.

Life has brought me difficult situations in which I have persevered and evolved. Every experience is unique, and we encounter such events at some point. It's part of the human journey. So, I want to share a part of my journey with you.

I was in a car accident when I was in the second year of junior high school. I'll spare you the details, but it's somewhere between dealing with the trauma caused by the impact itself and the aftermath. I've been confused for some time. The worst was psychological. When we say, "Time heals all wounds," is it really true.

I'm not saying, you can sit back and wait for the time to pass. It's what you've learned in your struggle that will improve you as a person more subtly than anything. You keep going with your daily routine, because life really does stop for no one. You just get through the days until you can fall into bed and cry. Months pass, until one day you're enjoying time with a friend when the thought just hits you: "I actually feel okay." You realise it's been a week since the nightmares hit and wonder what's going on, but before long, the major sufferings are a distant memory.

For me, there was no real "Rise from the Ashes" moment; some of these ashes still linger to this day. But I learned to cope with these thoughts and memories. I learned how to move on from this and to make the most of my time, as someone else was not able to do. That's a blessing enough, that it shouldn't go to waste.

RAJ THAKUR

TE-COMPS

MY ROLE MODEL

Who is a role model? A role model is anyone you look up to, someone who inspires you, someone you aspire to be. It doesn't even have to be a real person, even fictional characters can be role models.

Before we start to be like our role model we must realize an essential fact – no two people can have the same set of skills, circumstances and opportunities. So why should we aspire to be someone we're not? Why should we change ourselves to fit in with the idea of being like our role models? We all are unique in our own ways. Trying to be like your role model washes down this uniqueness. The best role model you can have is your past self.

Learning from our mistakes and trying to be better than you were yesterday is what we should strive for, after all the whole point of having a role model is to improve yourself. Being better than you were is not an extreme task to achieve. It starts with doing that one extra push up, solving one extra numerical, or even learning one new word. It's time we stop looking outside for validation and take a look within.

VANSH AGARWAL

TE-COMPS

WINGS OF SCARS

On the sand, I sat,
Taking in the stars and holding my hands,
I used to ask my universe-
Where did I go wrong with all my deeds?

The flower I desired to be,
The sky- I had met in my dreams,
The little me,
Assumed life as a fairyland,
Until the day got trapped among hyenas.

Ashamed me,
Fearful of looking in the mirror,
What if my weeping becomes loud?
What would happen if skepticism asked me again?
What if judgmental ears heard my voice?

Shutting the door, I walked in,
Made a loud cry,
I saw the sense of self-worth by myself,
Nerves numb and racing heartbeats,
A broken me waged an internal war,
I could perish a million times,
But nonetheless alive with the WINGS OF SCARS.

PRATIKSHA JANARDHAN SARVANKAR

SE-COMPS



हिंदी

क्रांतिकारी दास्ताएँ

आज़ादी के गीत

अंग्रेजों का आगमन भारत में १७ वीं शताब्दी में हुआ था। वे भारत में व्यापार करने के उद्देश्य से आये थे। धीरे-धीरे उन्होंने भारत में अपना व्यापार पूर्ण रूप से स्थापित कर लिया। ब्रिटिशों द्वारा भारतीयों को अंग्रेजी व अन्य तौर तरीके सीखने के लिए उनसे कुछ भी करा लेते थे, उन्हें लगता था वो हमें सिखाने में हमारे मदद कर रहे हैं। लेकिन ऐसा करते करते ब्रिटिश भारतीयों पर शासन करने लगे। ब्रिटिशों ने भारतीयों को न केवल शारीरिक बल्कि उन्हें मानसिक रूप से भी परेशान किया। अब सभी भारतीयों को पूर्ण रूप से पता लग चुका था कि वे सभी गुलाम बन चुके हैं। अंत में अपने देश की आजादी में योगदान देने वाले उन सभी स्वतंत्रता सैनिकों की याद में बिसमिल साहब की पंक्तियां कुछ इस प्रकार हैं।

"सर-फ़रोशी की तमन्ना अब हमारे दिल में हैं, देखना हैं जोर कितना बाजुए क्रांतिल में हैं।" शायद ये इन जैसी कई कविताओं का जादू था या आजाद हिंद में साँस लेने की तड़प, आजादी की आग इस देश को आजाद बना बैठी, कितना साहस था उन शहीदों में जो अपनी जान की बाजी लगा कर हमें आजाद कर गए, आज ७५ साल बाद भी ये ना हम जान पाए और ना आप, बस रह गई उनकी वीरता की कहानिया जो आज भी रूह कंपा देती हैं, मरी हुई देश भक्ति जगा देती हैं, स्वतंत्रता की एहमियत बता देती हैं।

"दे दी हमें आजादी बिना खड्ग बिना ढाल साबरमती के संत तू ने कर दिया कमाल।" ऐसे ही एक संत विश्ववंदनीय महापुरुष एवं भारत के राष्ट्रपिता महात्मा गांधी थे। वे एक ऐसे युगपुरुष थे जिन्होंने सत्य और अहिंसा के बल पर स्वतंत्रता संग्राम लड़ कर यह सिद्ध कर दिया कि युद्ध केवल अस्त्र-शस्त्रों के बल पर ही नहीं; सत्य, अहिंसा और प्रेम से भी जीते जा सकते हैं। इन्होंने अन्याय के विरुद्ध आवाज उठाई तथा भारी सफलता प्राप्त की। वहाँ से लौटने पर इन्होंने अहिंसात्मक आंदोलन चलाकर देश को स्वतंत्र कराने का संकल्प लिया। सन 1930 में 'नमक आंदोलन' तथा 1942 में 'भारत छोड़ो आंदोलन' चलाया जिसके फलस्वरूप ऐसी स्थिति पैदा हो गई कि 15 अगस्त, 1947 को अंग्रेजों को भारत छोड़ने पर विवश होना पड़ा। स्वतंत्रता की इस लड़ाई में इन्हें कई बार जेल भी जाना पड़ा। महान देशभक्त महात्मा गांधी की शिक्षाएँ सदैव हमारा मार्गदर्शन करती रहेंगी।

Alita Sunil Fernandes.

SE COMPS

इंकलाब जिंदाबाद

सिर पर हाथ उसके पीले पितांबर का था,
शेर जब पैदा हुआ, वो दिन २९ सितम्बर का था,
कहता था देश रहे आबाद सारा,
इंकलाब जिंदाबाद था जिसका नारा,

ले के बुलंद आवाज वो युवकों के मन में खड़ा था,
कुछ क्रांतिकारियों के लिए वो उम्र में बस थोड़ा सा
ही बड़ा था,
अंग्रेजों के लिए तो वो सिर का दर्द था,
२४ के उम्र जो देश लिए फांसी पर चढ़ा वही एक
मर्द था,

जिस उम्र में लोग शादी रच रहे थे,
उस उम्र में उसने इतिहास था रच दिया,
वैसे तो नाम था भगत सिंह उसका,
लेकिन बलिदान दे कर भारत माँ का शेर पुत्र कह-
लाया।।

इंकलाब जिंदाबाद।।

Yash Mahajan.
TE COMPS

आज़ादी के अनेक आवाज

भारत देश में जैसे हर व्यक्ति, भाषा, और रहन सहन अनोखा रहा हैं वैसे ही इसका इतिहास भी अनोखा हैं। इस इतिहास को जोड़े रखने और इसकी पहचान बनाये रखने में बहुत से क्रांतिकारी आंदोलन और युद्ध छिड़ गये थे। क्रांतिकारी मेवाड के बहादुर राणा थे। जिन्होंने भारत में मुगल राज्यों से हिंदुत्व पर आँच आने से बचाया था। इसी तरह की एक क्रांति मराठा साम्राज्य के महाराजा, छत्रपति शिवाजी महाराज ने की थी। इन घटनाओं के बाद भारत ब्रिटिश दोर से गुज़रा था और इस काल में आज़ादी के लिये जितने भी प्रयास हुये उस वजह से यह युग भारतीय इतिहास का सुवर्ण युग माना जाता हैं।

जिस प्रकार एक विशाल नदी अपने उद्गम स्थान से निकल कर अपने सागर मिलन तक अबाध रूप से बहती जाती हैं और बीच-बीच में उसमें अन्य छोटी-छोटी धाराएँ भी मिलती रहती हैं, उसी प्रकार भारत की मुक्ति गंगा का प्रवाह भी सन् १७५७ से सन् १९६१ तक अजस्र रहा हैं और उसमें मुक्ति यत्न की अन्य धाराएँ भी मिलती रही हैं। इस समय के दौरान ३५ बड़े आंदोलन हुए थे जैसे प्लासी का युद्ध (सन् १७५७), बंगाल के सैनिक विद्रोह (सन् १७६४ और सन् १७९५), नील विद्रोह (सन् १८५० - १८६०), नौसैनिक विद्रोह (सन् १९४६), इत्यादि।

भारतीय स्वतंत्रता के सशस्त्र संग्राम की विशेषता यह रही है कि क्रांतिकारियों के मुक्ति प्रयास कभी शिथिल नहीं हुए। भारत आज भी अनेक बुरे कार्य से कैद हैं जैसे भ्रष्टाचार, महंगाई और इसे इनसे आजाद बनाने के कोशिश चलती रहेगी।

Harshit Jain
SE COMPS

शेर शिवा का शेर संभा

ये दास्तान हैं स्वराज्य के सपने को जिंदा रखने वाले एक महा छत्रपति की। छत्रपति संभाजी महाराज, एक छोटा बच्चा, जिसने मेहेज दो साल की उम्र में अपने माँ को खो दिया। उनका बचपन उनके माता के अनुपस्थिति में हुआ। जीजामाता ने उनको सिखाया और उनका पालन पोषण किया। छत्रपति को १२ भाषाएँ ग्यत थी। वे अर्थशास्त्र और राज्यशास्त्र दोनों अच्छेसे समझते थे। १० साल की उम्र में वे अजमेर के राजा के पास राज्यशास्त्र सीखने के लिए गए थे।

उनको मात्र ९ साल की उम्र में आगरा में औरंगजेब की चंगुल में जाना पड़ा। २३ साल के होने पर अपने पिता को भी खोना पड़ा। ९ साल के अपने कार्यकाल में, इस महान राजा ने १२० लड़ाईयाँ खेली और १ भी नहीं हारी। छत्रपति ने अपने नौ सेना को भी बल दिया। छत्रपति ने मुगलों की नाक में दम करके उन्हें धुल चटाई थी। संभाजी महाराज जनता के राजा थे।

नियतिको इस महान राजा का सुख देखा नहीं गया। वक्त ने किया कुछ ऐसा सितम अपने ही परा-ये हो गये। महाराज को अपने ही साले ने धोखा दे दिया। महाराज का पता औरंगजेब को दे दिया। एक सुलतान को बिल्कुल भी शोभा न देने वाली हरकत औरंगजेब ने की। उनको ४० दिन तक तड़ पाया गया। उनकी आँखें नोच ली गई, खाल उधेड दी, उँगलियाँ काट दी, और क्या कुछ नहीं किया गया। लेकिन छत्रपति मुगलों के सामने बिल्कुल भी झुके नहीं। वो उठे रहें। अपने धर्म के लिए अंतिम सांस तक लड़ते रहें।

धर्म के लिए लड़ने वाले इस महापुरुष को धार्मिक अंत संस्कार भी नहीं हो पाया। इस महान, पंडित, राजाधिराज और जनता के राजा को मेरा कोटी कोटी प्रणाम।

देश धरम पर मिटने वाला

शेर शिवा का छावा था

महापराक्रमी परम प्रतापी

एक ही शंभु राजा था

Siddharth Bandal,
SE COMPS

क्रांतिकारी गाथाएं - 'महाराष्ट्र'

क्रांति की लहर सबसे पहले महाराष्ट्र से चली और शीघ्र ही इस ने समूचे भारत को अपनी गिरफ्त में ले लिया। प्रथम क्रांतिकारी संगठन १८९६-९७ में पूना में दामोदर हरि चापेकर और बालकृष्ण हरि चापेकर द्वारा स्थापित किया गया। इसका नाम 'व्यायाम मंडल' था। इस गट के द्वारा रैण्ड और एमहर्स्ट नामक दो अंग्रेज अधिकारियों की हत्या की गयी। यह यूरोपीयों की प्रथम राजनीतिक हत्या थी। इस हत्या का निशाना तो पूना में प्लेग समिति के प्रधान श्री रैण्ड थे, परन्तु एमहर्स्ट भी अकस्मात मारे गये। चापेकर बन्धु पकड़े गये तथाप फांसी पर लटका दिये गये। शासक वर्ग ने अंग्रेजों के विरुद्ध टिप्पणी लिखने के लिए तिलक को उत्तरदायी ठहरा कर १८ मास की सजा दी। १९१८ की विद्रोह समिति की रिपोर्ट में यह कहा गया था कि भारत में क्रांतिकारी आन्दोलन का प्रथम आभास महाराष्ट्र में मिलता है।

सावरकर ने १९०४ में नासिक में 'मित्रमेला' नाम से एक संस्था आरंभ की थी जो शीघ्र ही मेज-नी के 'तरुण इटली' की तर्ज पर एक गुप्त सभा 'अभिनव भारत' में परिवर्तित हो गयी। बंगाल के क्रांतिकारियों से भी इस संस्था का संबंध था। इस संस्था ने अपने उद्देश्य की पूर्ति के लिए विदेशों से अस्त्र-शस्त्र मंगवाया और बम बनाने का काम रूसियों के सहायता से किया। अनेक गुप्त संस्थाएं बंबई, पूना, नासिक, नागपुर, कोल्हापुर आदि जगहों में सक्रिय थीं। शीघ्र ही सरकार इनकी कार्यवाहियों से पराजित हो गयी। गणेश दामोदर सावरकर को भारत से निर्वासित कर दिया गया। जिला मजिस्ट्रेट जैक्सन की हत्या के आरोप में दामोदर सावरकर सहित अनेक व्यक्तियों पर 'नासिक षड्यंत्र' केस चलाया गया। उन्हें भारत से आजीवन निर्वासित कर 'कालापानी' की सजा दी गयी। बाद में सरकार की दमनात्मक नीति एवं धन की कमी के कारण महाराष्ट्र में क्रांतिकारी आन्दोलन ठंडा हो गया। तो ऐसे थी महाराष्ट्र की गाथा, जिसे हम अब भी याद करते हैं।

Harshwardhan Gupta
SE COMPS

हमारे बापू

भारतीय स्वतंत्रता आंदोलन में महात्मा गांधी के योगदान को शब्दों में नहीं मापा जा सकता। उन्होंने ने अन्य स्वतंत्रता सैनिकों के साथ मिलकर अंग्रेजों को भारत छोड़ने के लिए मजबूर

किया। उनके कार्य, शब्द लाखों लोगों के लिए प्रेरणा के स्रोत हैं और उनका संघर्ष आंदोलन, नीतियां अहिंसक थीं।

वह अपने अहिंसा विरोध के लिए जाने जाते थे और भारत या दक्षिण अफ्रीका में स्वतंत्रता आंदोलनों के एक प्रमुख व्यक्ति थे। उनके प्रयासों से आखिरकार भारत को औपनिवेशिक शासन से

आजादी मिल गई।

उन्होंने ने हमेशा मानवाधिकारों को महत्व दिया। निस्संदेह, महात्मा गांधी न केवल पिछली पीढ़ी के लिए बल्कि आने वाली पीढ़ियों के लिए भी अहिंसा, सत्य, सहिष्णुता और सामाजिक कल्याण

की अपनी विचारधारा के साथ एक सच्ची प्रेरणा हैं।

उनकी याद में कुछ लफ़्ज़ दोहराता हूँ,
 आँखों पर चश्मा हाथ में लाठी और चेहरे पर मुस्कान
 दिल में था उनके हिंदुस्तान
 अहिंसा उनका हथियार था
 अंग्रेजों पर भारी जिसका वार था
 जात-पात को भुला कर वो जीना सिखाते थे
 सादा हो जीवन और अच्छे हो विचार
 बड़ो को दो सम्मान और छोटे को प्यार
 बापू यही सबको बताते थे।

Antony Jerry Chirayath.

SE COMPS

मेरे दादाजी का प्रभाव

लोगो का प्रभाव होता है। लेकिन मेरे जीवन पर मेरे सामान्य जीवन जीने वाले दादा जी का प्रभाव ज्यादा है

| मेरा बचपन एक छोटे से गाव में गुज़रा | वो एकदम कम पढ़े हुये थे लेकिन उनकी सोच एकदम अच्छी थी।

वो खुद कम पढ़े थे इसीलिये वो चाहते थे की हम सब भाई बहन अच्छे से पढाई करे | गाव में लड़कियों पर बहुत सारी पाबंदिया होती हैं | लेकिन मेरे दादा जी ने हम पे कोई भी पाबंदी नहीं

डाली। वो चाहते थे की हम लोग पढ़-लिखकर अपने पाव पे खड़े हो | इसीलिये उन्होंने ने हमें हर तरह

से प्रोत्साहित किया |

मैं मेरे दादा जी की बहुत शुक्रगुज़ार हु। इस तरह मेरे जीवन पर मेरे दादा जी का प्रभाव ज्यादा था।

Sejal Gupta
SE COMPS

भारतीय गणित का इतिहास

दुनिया की सबसे पुरानी सभ्यताओं में से एक भारतीय सभ्यता में विज्ञान और तकनीक पारंपरिक रूप से शामिल रहे हैं। साधु-संतों की भूमि होने के साथ साथ प्राचीन भारत विद्वानों और वैज्ञानिकों का भी घर था। रिसर्च से पता चलता है कि भारत दुनिया को गिनती सिखाने से लेकर दुनिया की सर्वोत्तम स्टील बना कर, सदियों पहले से विज्ञान और तकनीक के क्षेत्र में सक्रिय योगदान दे रहा है। सभी जानते हैं कि गणित के आधार ज़ीरो यानी शून्य की खोज भारत में हुई थी। यह हर समय काल की सबसे महत्वपूर्ण खोज मानी जाती है। गणितज्ञ आर्यभट्ट पहले ऐसे व्यक्ति थे जिन्होंने ज़ीरो के लिए कोई संकेत, कोई सिंबल दिया था। यह आर्यभट्ट के प्रयासों का ही परिणाम था कि गणितीय क्रियाविधियों जैसे जोड़ने और घटाने में शून्य का प्रयोग शुरू हो सका। शून्य की अवधारणा और स्थान-मूल्य प्रणाली में इसके एकीकरण ने केवल दस प्रतीकों का उपयोग करके संख्याओं को लिखने में सक्षम किया, चाहे वह संख्या कितनी भी बड़ी हो। भारत ने दस अंकों द्वारा सभी संख्याओं को व्यक्त करने की एक सरल विधि दी। इस विधि को दशमलव प्रणाली या Decimal System कहते हैं। इस प्रणाली में, प्रत्येक प्रतीक की एक स्थिति और एक निरपेक्ष मूल्य होता है। दशमलव संकेतन की सरलता की वजह से इस प्रणाली ने व्यावहारिक आविष्कारों में अंकगणित के उपयोग को बहुत तेज और आसान बना दिया। इसने गणना करना बहुत सरल कर दिया।

Saksham Gupta

SE IT

चाफेकर बंधू

दामोदर हरि चाफेकर, बालकृष्ण हरि चाफेकर तथा वासुदेव हरि चाफेकर सगे भाई थे जिन्होंने भारत की स्वतंत्रता के लिए अपना बलिदान दिया। तीनों भाइयों को संयुक्त रूप से चाफेकर बन्धु कहा जाता है। दामोदर हरि चाफेकर ने २२ जून १८९७ को रैंड को और उसके सहायक लेफ्टिनेंट आयस्टर को गोली मारकर हत्या कर दी। यह भारत की आज़ादी की लड़ाई में प्रथम क्रांतिकारी धमाका था। रैंड ने प्लेग समिति के प्रमुख के रूप में पुणे में

भारतीयों पर बहुत अत्याचार किए थे। इसकी बालगंगाधर तिलक एवं आगरकर जी ने भारी आलोचना की जिससे उन्हें जेल में डाल दिया गया।

ये तीनों भाई लोकमान्य बाल गंगाधर तिलक के सम्पर्क में थे। तीनों भाई तिलक जी को गुरुवत् सम्मान देते थे। किसी अत्याचार-अन्याय के सन्दर्भ में एक दिन तिलक जी ने चाफेकर बन्धुओं से कहा, शिवाजी ने अपने समय में अत्याचार का विरोध किया था, किन्तु इस समय अंग्रेजों के अत्याचार के विरोध में तुम लोग क्या कर रहे हो? इसके बाद इन तीनों भाइयों ने क्रान्ति का मार्ग अपना लिया। संकल्प लिया कि इन दोनों अंग्रेजश्

अधिकारियों को छोड़ेंगे नहीं। तिलक जी द्वारा प्रवर्तित शिवाजी महोत्सव तथा गणपति-महोत्सव ने इन चारों युवकों को देश के लिए कुछ कर गुजरने हेतु क्रांति-पथ का पथिक बनाया था। उन्होंने ब्रिटिश राज के आततायी व अत्याचारी अंग्रेज अधिकारियों को बता दिया गया कि हम अंग्रेजों को अपने देश का शासक कभी नहीं स्वीकार करते और हम तुम्हें गोली मारना अपना धर्म समझते हैं। इस प्रकार अपने जीवन-दान के लिए उन्होंने देश या समाज से कभी कोई प्रतिदान की चाह नहीं रखी।

Swaraj Gandhi

SE EXTC

खोज जिन्होंने दुनिया बदल दी

प्राचीन भारत के प्रख्यात वैज्ञानिकों में से एक कणाद के बारे में कहा जाता है उन्होंने जॉन डॉल्टन के जन्म से सदियों पहले ही परमाणु थ्योरी बना ली थी। उन्होंने एक परमाणु की तरह, अणु या छोटे अविनाशी कणों के अस्तित्व का अनुमान लगाया। उन्होंने यह भी कहा कि अणु में दो अवस्थाएं हो सकती हैं- पूर्ण विश्राम की अवस्था और एक गति की अवस्था। उन्होंने आगे कहा कि द्वयणुक (डायटॉमिक मॉलीक्यूल) और त्रयणुक (ट्रायटॉमिक मॉलीक्यूल) के उत्पादन के लिए एक ही पदार्थ के परमाणुओं को एक विशिष्ट और सिंक्रनाइज तरीके से संयुक्त किया जाता है।

प्राचीन भारत के गणितज्ञ अक्सर अपनी गणितीय ज्ञान का उपयोग शुद्ध खगोलीय अनुमान लगाने के लिए करते थे। इनमें सबसे महत्वपूर्ण नाम आर्यभट्ट का है, जिनकी किताब आर्यभटीय ने उस वक्त खगोलीय ज्ञान के बारे में स्रोत की तरह काम किया। उन्होंने कहा था कि धरती गोल है, अपनी धुरी पर घूमती है और सूर्य का चक्कर लगाती है। इसे ही हीलियोसेंट्रिक थ्योरी कहा जाता है। उन्होंने सौर मंडल, चंद्र ग्रहणों, दिन की अवधि और पृथ्वी और चंद्रमा के बीच की दूरी का भी अनुमान लगाया था।

लोहे के आवरण वाले रॉकेट सबसे पहले 1780 के दशक में मैसूर के टीपू सुल्तान ने विकसित किए थे। टीपू सुल्तान ने एंग्लो-मैसूर युद्ध के दौरान इन रॉकेटों का ब्रिटेन की ईस्ट इंडिया कंपनी की बड़ी सेनाओं के खिलाफ सफलतापूर्वक किया था। इन रॉकेट की मारक क्षमका करीब दो किलोमीटर की थी और उस समय में यह दुनिया के सर्वश्रेष्ठ रॉकेट थे। इन्हीं रॉकेट की वजह से अंग्रेजों को टीपू सुल्तान के हाथों सबसे बुरी पराजय का सामना करना पड़ा था।

Vedant Gharat

SEIT

भारतीय संविधान के जनक

भारत को संविधान देने वाले महान नेता डा. भीम राव अंबेडकर का जन्म 14 अप्रैल 189 को मध्य प्रदेश के एक छोटे से गांव में हुआ था। डा. भीमराव अंबेडकर के पिता का नाम रामजी मालोजी सकपाल और माता का भीमाबाई था। अपने माता-पिताकी चौदहवीं संतान के रूप में जन्में डॉ. भीमराव अम्बेडकर जन्मजात प्रतिभा संपन्न थे। भीमराव अंबेडकर का जन्म महार जाति में हुआ था जिसे लोग अछूत और बेहद निचला वर्ग मानते थे। अपने भाइयों और बहनों में केवल अंबेडकर ही स्कूल की परीक्षा में सफल हुए और इसके बाद बड़े स्कूल में जाने में सफल हुये। अपने एक देशस्त ब्राह्मण शिक्षक महादेव अंबेडकर जो उनसे विशेष स्नेह रखते थे के कहनेपर अंबेडकर ने अपने नाम से सकपाल हटाकर अंबेडकर जोड़ लिया।

8 अगस्त, 1930 को एक शोषित वर्ग के सम्मेलन के दौरान अंबेडकर ने अपनी राजनीतिक दृष्टि को दुनिया के सामने रखा, अपने विवादास्पद विचारों, और गांधी और कांग्रेस की कटु आलोचना के बावजूद अंबेडकर की प्रतिष्ठा एक अद्वितीय विद्वान और विधिवेत्ता की थी जिसके कारण जब, 15 अगस्त, 1947 में भारत की स्वतंत्रता के बाद, कांग्रेस के नेतृत्व वाली नई सरकार अस्तित्वमें आई तो उसने अंबेडकर को देश का पहले कानून मंत्री के रूप में सेवा करने के लिए आमंत्रित किया, जिसे उन्होंने स्वीकार कर लिया। 29 अगस्त 1947 को अंबेडकर को स्वतंत्र भारत के नए संविधान की रचना के लिए बनी संविधान मसौदा समिति के अध्यक्ष पदपर नियुक्त किया गया। 26 नवंबर, 1949 को संविधान सभा ने संविधान को अपना लिया। 14 अक्टूबर, 1956 को नागपुर में अंबेडकर ने खुद और उनके समर्थकों के लिए एक औपचारिक सार्वजनिक समारोहका आयोजन किया। अंबेडकर ने बौद्ध धर्म ग्रहण किया। 1948 से अंबेडकर मधुमेह से पीड़ित थे।

जून से अक्टूबर 1954 तक वो बहुत बीमार रहे इस दौरान वो नैदानिक अवसाद और कमजोर होती दृष्टि से ग्रस्त थे। 6 दिसंबर 1956 को अंबेडकर जी की मृत्यु हो गई।



Vedant Warke
TE COMPS

मराठी

काळासोबत हरवलेले
छोटे मंत्रमुग्ध क्षण

काळासोबत हरवलेले छोटे मंत्रमुग्ध क्षण

मला आठवतो तो काळ जेव्हा माझ्या कुटुंबातील सर्व सदस्य आणि माझे सर्व चुलत भाऊ उन्हाळ्याच्या सुट्टीत भेटायचो आणि जेव्हा आम्ही एकत्र असायचो, आम्ही रात्री कधीच झोपत नसू, अंताक्षरी खेळायचो, शाळेच्या दिवसातील आमचे सर्व नवीन अनुभव एकमेकांना सांगायचो. एकमेकांची खिल्ली उडवायचो. मला फक्त एवढंच आठवतं की ती सर्वोत्तम वेळ होती ज्यासाठी मी वर्षभर वाट पहायचो.

आता कधी-कधी भेटलो तरी आम्ही आमच्या फोनमध्ये व्यस्त असतो किंवा औपचारिक गप्पा मारत असतो. आमच्या नकळत काळ इतक्या वेगाने कसा बदलला हे मला समजले नाही. कुणाला घाबरवण्यासाठी दारामागे लपून बसणे, नंतर लांबूनच बोलत असल्याने निघून जाणे, दिवाळीत परफेक्ट गोल लाडू कोण बनवतो हे पाहण्याची स्पर्धा किंवा कोणत्याही सणाआधी आईला घर साफ करायला मदत करणे, साफसफाई हा काही चांगला अनुभव नव्हता तरीही. पण अजूनही छान आठवणी जपून आहेत, झोपायच्या आधी आजीच्या जुन्या काळातील कथा ऐकणे, रात्री भयकथा सांगणे मग मधेच झोपायला भांडणे कारण सगळे कोपऱ्यावर झोपायला घाबरत होते, अशा कितीतरी आठवणी आहेत की त्या सर्व लिहिल्यानंतर एक कागद तुम्हाला अजूनही काही शिल्लक सापडेल. कदाचित प्रत्येकजण जेव्हाही त्यांच्या चुलत भाऊ अथवा बहीण, मित्र किंवा प्रियजनांसोबत असतो तेव्हा चांगला वेळ जातो आणि काही लोकांसाठी कौटुंबिक वेळ ही सर्वोत्तम वेळ असते. जसजसे आपण मोठे होत जातो तसतसे या सर्व गोष्टी कुठेतरी हरवल्या जातात, फार कमी लोक त्या काळात जगू शकतात. नकळत गोष्टी काळाबरोबर हरवत जातील, येणाऱ्या भविष्यात खूप बदल होतील पण या सगळ्यानंतरही त्या काळांना जिवंत ठेवणारी गोष्ट म्हणजे तुम्हीच, तुमच्या व्यस्त वेळापत्रकातून थोडा वेळ काढा आणि तो काळ किती चांगला आहे हे लक्षात ठेवण्याचा प्रयत्न करा. कारण नंतरच्या गोष्टी बदलल्या तरी त्या सोनेरी काळांना जिवंत ठेवण्यासाठी आठवणी नेहमीच असतील!

Shantanu Shinde
SE COMPS

काळासोबत हरवलेले छोटे मंत्रमुग्ध क्षण

थोर राजांचा ,महान संत महात्म्यांचा, अनेक ज्ञानींचा ,वैविध्यपूर्ण राष्ट्र म्हणजे माझा महाराष्ट्र आणि अशा महान राष्ट्राची सामाजिक आणि सांस्कृतिक वैशिष्ट्यांचे सातत्य म्हणजे माझी मराठी परंपरा. मागच्या पिढीकडून पुढच्या पिढीस प्राप्त झालेली पद्धती म्हणजे परंपरा. परंपरा म्हणजे सामाजिक व सांस्कृतिक एकात्मतेचे प्रतीक जणू.

गुढीपाडव्याला सर्वजण एकत्र येऊन ऐक्याची व विजयाची गुढी उभारतात गुळ व कडूलिंबूची पान खाऊन जीवनाची गोड व कडूक्षणांचा आनंद घ्यायला शिकवतात, गुरुपौर्णिमाला गुरूंचा आदर करायला शिकवते, गणेशोत्सवात एकत्र येऊन आनंदीत राहण्याची शिकवण देते. 'तिळगुळ घ्या आणि गोड गोड बोला' आपल्याला मितभाषी असायला शिकवते, होळीला दुःखाचे दहन करायला सांगते अशा मोठ्या सणांबरोबरच छोट्या सणात व इतर रोजच्या दिनचर्यात देखील आपली मराठी संस्कृती आपल्याला खूप काही शिकवते. थोरा मोठ्यांचा आदर करावा, इतरांना आनंद द्यायचा प्रयत्न करावा ,पशुपक्षांची काळजी घ्यावी व त्यांच्यासाठी देखील काहीतरी करावे, ह्या व्यतिरिक्त देखील आपली संस्कृती आपल्याला खूप काही शिकवते. 'माणसाने माणसाशी माणसासमय वागणे' – ही खूप मोठी शिकवण आपल्याला देऊन जाते. एवढ्या सुंदर सुसंस्कृत संस्कृतीला आपण विसरत चाललेलो आहे. याचा मात्र खेद वाटतो. इतरांना हेवा वाटेल अशी आपली संस्कृती अशा संस्कृतीला आपण जपलं पाहिजे मला मान्य आहे, की काळा सोबत जोडी परंपरा बदलायला हव्यात पण याचा अर्थ हे नाही की आपण सर्वच परंपरा विसरायला पाहिजेत. काही समाजकंटक प्रत्येक छोट्या मोठ्या रुढीमध्ये अर्थ व फायदा शोधत असतात. परंतु प्रत्येक रुढीमध्ये फायदा शोधला तर ती रुढी कसली ज्या ज्या गोष्टी आपण करू शकतो त्या त्या गोष्टी करायचा प्रयत्न केला पण केला पाहिजे आणि त्यातला आनंद अनुभवला पाहिजे. काही गोष्टी विना अर्थ शोधता, निस्वार्थीपणाने करण्यातच त्यांचं खरं सौंदर्य लपलेलं असतं.

मराठमोळी परंपरा आपली,
मराठी मुळा हा साज,
अभिमानास्पद ही संस्कृती,
जतन करूया आज.

Siddhart Bandal
SE COMPS

भोंडला -दुर्मिळ होत चाललेली परंपरा आणि त्यातला आनंद

आजकाल महाराष्ट्रात नवरात्र म्हटले कि सर्वांना लगेचच गरबा , दांडिया आठवतो. नऊ दिवस देवीची पुजा केली जाते तसेच दररोज डीजेवर मोठ्या आवाजात गाणी लावून गरबा , दांडिया खेळला जातो. खंर पाहता गरबा दांडिया ही गुजराती परंपरा आहे. आपल्या महाराष्ट्राची नवरात्रीतली परंपरा म्हणजे 'भोंडला'.पूर्वी घराच्या अंगणात किंवा पटांगणात भोंडला खेळला जायचा . नवरात्रीचे नऊ दिवस आणि दसऱ्याच्या दिवशी भोंडला खेळला जातो. एका पाटावर हत्ती काढून त्याची पुजा करतात. पाटाभोवती रांगोळी काढून सर्व स्त्रिया फेर धरून भोंडल्याची गाणी तालासुरात म्हणतात. दररोज खिरापत म्हणजे प्रसाद असतो. पहिल्या दिवशी एक ,दुसऱ्या दिवशी दोन असे करत करत नव्या दिवशीच ९+१ खिरापती चा प्रसाद असतो. भोंडल्यानंतर खिरापत ओळखण्याचा कार्यक्रम खुपच मजेशीर असतो.

पूर्वीच्या काळी एकज कुटुंब पद्धत असल्याने स्त्रियांना खुपच श्रमाची कामे करावी लागत होती.ह्या सर्व कामांतून थोडी उस्त मिळावी म्हणून भोंडला खेळला जायचा. अगदी माहेरवाशीणी सुद्धा याच निमित्ताने माहेरी यायच्या आणि भोंडला खेळायच्या. पारंपारिक गाणी आणि खिरापत हे भोंडल्याचे मुख्य आकर्षण असे. खिरापत ओळखण्यासाठी गाण्यामध्ये त्याचे वर्णन केले जाते. सर्वात शेवटी हळदीकुंकू , खिरापत वाटून त्याची सांगता होते. "ऐलमा पैलमा, ऐक लिंबु झेलू बाई दोन लिंबु झेलु " अशी गाणी भोंडल्याला म्हणटली जातात. भोंडल्याची परंपरा ही त्या प्रत्येक व्यक्तीसाठी अविस्मरणीय आहे ज्याने हे जवळून बघितले आहे.

गावांमध्ये आजही भोंडल्याची प्रथा सुरू आहे. खरंतर ह्याला आपण प्रथा नाही म्हणून शकत ही तर आपली संस्कृती आहे जी आपण जपली पाहिजे . पण शहरांमधून भोंडला गायब होत चालला आहे. काळासोबत पुढे जाताना माज आपली संस्कृती ,परंपरा मागे राहत चालल्या आहे आणि त्यासोबत येणारा आनंदही हरवत चालला आहे.

Aditi Satam

SE IT

आनंदाच्या शोधात.....

आनंद, हा शब्द जरी कानावर पडला तरी चेहऱ्यावर एक स्मित हास्य उमलते. हो ना? नक्कीच! आनंद ही एक मानसिक स्थिती किंवा भावनिक स्थिती आहे. जिच्यामुळे आपले मन मोहरून निघते, खुलते, आपणास समाधान प्राप्त होते. हाच तर खरा आनंद असतो. आनंद हा मानवी जीवनाचा सर्वात मोठा घटक आहे आज आपण जे काही करतो ते आपल्या आनंदासाठीच करत असतो. परंतु, आज हाच आनंद आपल्या जीवनातून दूर जाताना दिसतोय. आजच्या या धावपळीच्या युगात हाच आनंद कुठेतरी हरवतोय. रोजच्या कामाच्या व्यापामुळे, मानसिक ताणतणावामुळे, अपेक्षा भंगामुळे, अशा अनेक कारणामुळे आज आपल्या जीवनातील आनंद हिरावत चालला आहे, तसे बघायला गेले तर सध्याच्या धकाधकीच्या जीवनात आपण छोटे छोटे आनंद सुद्धा वाया घालवतोय जसे की आजी - आजोबांसोबतच्या गप्पा, लहान भावंडांसोबत खेळणे, आपल्या कुटुंबासोबतचा तो वेळ, या सगळ्याच गोष्टींपासून आपण आपसूकच दूर जातोय. आज आपल्या आयुष्यात व्याप इतका वाढला आहे की त्यातून आपल्याला आपल्या माणसांसाठीच वेळ मिळत नाहीये. खरंच जे काही आपण फक्त आनंद मिळवण्यासाठी करतोय त्या आनंदाच्या शोधात आपण लहान लहान गोष्टींचा आनंद गमावतोय म्हणजेच हिऱ्याच्या शोधात आपण परसासारखे रत्न सुद्धा गमावतोय. ना आजीच्या गोष्टी ऐकतोय, ना घरातला किलबिलाट ऐकतोय, ना कुटुंबासोबत कोणते सण उत्सव साजरे करतोय. किती वाईट ना? यात ना करंजीच्या सारणाशी गोडीये, ना चिवड्यातला तिखटपणा, सर्व काही फक्त बेचवच झाले आहे होना? तसं बघायला गेले तर आनंद प्रत्येक गोष्टीत असतो निसर्गाच्या हिरवळीत असतो, निसर्गाच्या सानिध्यात असतो, झाडाला लागलेल्या कलरफुल फळात असतो आणि पिवळ्या पालवीतही तो दिसतो. कधी कधी कोकिलेच्या गाण्यात असतो, कधी पोपटाच्या मिठू मिठू मध्ये असतो, कधी चिमणीच्या चिऊचीवाट मध्ये, असतो तर कधी कधी गायीच्या हंबरण्यातही असतो. फक्त तो शोधायला आपल्याकडेच वेळ नाहीये. बघा कधी कधी सकाळी सकाळी मंजुळ स्वर कानावर पडतात सकाळच्या पहारी हरिनाम बोला, वासुदेव आला आता वासुदेव आला किती मन प्रफुल्लित वाटते ना! ती दारातली रांगोळी तर मन उल्लासितच करून टाकते. बाहेर आले की वासुदेव दिसतो. त्याच्या चेहऱ्यावरचे सुख, त्याचा तो टिळा, अन मोरपीस असलेली ती टोपी, एक वेगळच हास्य चेहऱ्यावर आणते. अन मग मन आपसूकच बोलते wow!!! किती छान. पण मित्रांनो हाच आनंद आजकाल कालवश होतांना दिसतोय, आपल्यापासून दूर जाताना दिसतोय. आपल्या आपल्या कामात आपण इतके व्यस्त आहोत की आपल्याला तो आनंद दिसतच नाहीये., म्हणूनच माझ्या प्रियजनांनो सांगावेसे वाटते त्या आनंदाच्या शोधात पळू नका तो आपल्या जवळच आहे फक्त गरज आहे ती आपल्या नजरेला त्याची जाणीव करून देण्याची म्हणून मित्रांनो, हसा, खेळा, खळखळून आनंद व्यक्त करा. अन् आपले आयुष्य अधिकाधिक बहरून द्या.

आनंद आहे तर सुख आहे,
सुख आहे तर समाधान आहे,
समाधान आहे तर आपला मी जिवंत आहे,
आणि मी असेल तरच जीवनाला अर्थ आहे

Atharva Gaikwad
SE COMPS

तुमचा विसरलेला आनंद

गाव हा शब्द ऐकल्यावर आपल्या डोक्यात नेमका काय येतं? दाठ रान, हिरवे झाडे, किलबिलाट करणारे पक्षी, ओसंडून वाहणारा तो धबधबा व अपुले गावचे घर ह्या सर्व गोष्टी आपल्या नजरे समोर येतात व मन भरून येतं. पण आपल्याला कधी हा प्रश्न पडतो की आपण आपल्या गाव विषयी कुठे तरी कमी पडतो आपल्या व्यस्त आयुष्यात आपण आपल्या गावा साठी थोडा वेळ ही नाही काढू शकत? का आपल्याला गावाची आठवण येते पण आपण जात नाही! गावाला जाण्याचे फायदे? का मनुष्य एवढा व्यस्त झालाय की तो कुठलेही काम, फायद्याशिवाय करत नाही आपला गाव म्हणजे आपली संस्कृति आणि आपली संस्कृति माणूस आपल्या फायद्याशिवाय जपत नाही आणि गावी जायला कारण लगता का? वेळ मिळाला की बॅग भरायची आणि निघायचं, आपला वारसा सांभाळायला! गाव म्हटलं की बस व ट्रेन चा तो लांबणारा प्रवास, गावा घरी पोहोचल्यावर त्या घराची साफसफाई व रोज सकाळी उठून विहीरीतल पाणी भरण ही कामं आपल्याला नकोशी होतात ह्याचं कारण म्हणजे आपल शहरी आयुष्य आपणास 'इन्स्टंट' गोष्टींची सवय झाली आहे व आपल्याला त्या गोष्टी तर मिळतात पण त्या गोष्टी केल्याचा आनंद मिळत नाही आपण त्या गोष्टी केल्यावर भेटणाऱ्या आनंदाचा विचाराच करत नाही त्या प्रवासात आपल्याला भेटलेली माणसं आपल्या आई बाबांन बरोबर घालवलेले ते अमूल्य क्षण, आपल्या हक्काचे घर सवाछ ठेऊन त्या थंडगार लादीवर बसून आजूबाजूचा हिरवागार नजारा पाहणे व नेमकं गावाकडची माणसं किती कष्ट करतात रोजच्या पाण्यासाठी! आजचा मनुष्य ह्या गोष्टी विसरत चाललाय आणि आपल्या मातीपासून लांब होत चाललयं म्हणून आपण सर्वे आज हा निश्चय करुयात की काहीही झालं तरी आपण आपली संस्कृती व गावाला कधी ही विसरणार नाही!!!

Aditya Nalawade

SEIT

श्रावण ठसा

हिंदू संस्कृतीमध्ये प्रत्येक सण साजरा करण्याची एक पद्धत तसेच त्याचे महत्वही आहे. श्रावण महिना हा पवित्र महिना मनाला जातो व या महिन्यात भरपूर सण साजरे केले जातात .

श्रावण मासी हर्ष मानसी
हिरवळ दाटे चहूकडे
क्षणात येते सरसर हिरवे
क्षणात हिरुनी ऊन पडे

बालकवींनी किती सुंदर वर्णन या कवितेमधून केले आहे . पूर्वी श्रावण महिन्यात ऊन पावसाचा खेळ चालू असायचा आणि मग त्यानंतर सप्तरंगी इंद्रधनुष्य पाहायला मिळायचा . पण आता पर्यावरणाचा समतोल इतका बिघडला कि पाऊस केव्हाही कधीही कितीही पडतो आणि इंद्रधनुष्य तरी दिसणार कसे?

कारण आपल्या आजुबाजुला गगनचुंबी इमारती आहेत .

मंगळवारी मंगळागौरीची पूजा करण्याची प्रथा आहे . त्यामध्ये अनेक प्रकारचे पदार्थ नैवेद्यासाठी बनवले जातात आणि रात्री आजूबाजूच्या सर्व सुहासिनी व कुमारिकां झिम्मा फुगडी खेळून मंगळागौर जागवतात . पण आता ठराविक माणसांतच पार्टी सारखी साजरी केली जाते .

कृष्ण जयंतीच्या दुसऱ्या दिवशी गोपालकाला साजरा केला जातो. तेव्हा मडक्यात दही घालून हे मडके रंगवून थोडं उंच बांधतात . मुलं मानवी मनोरे रचून मडकं फोडून "गोविंदा रे गोपाला यशोदेच्या तान्ह्या बाळा म्हणत नाचतात . पण आता दहीहंडी खूप उंच बांधलेली असते त्यावर बक्षीस रक्कम ही काही हजारात असते. मग ती हंडी फोडण्यासाठी शर्यत लागते, उंच उंच मानवी मनोरे रचण्यात येतात त्यात एखाद्याचा मृत्यूही होऊ शकतो. तर कोणाचे हात पाय डोके कायमचे निकामी होते. ते काही हजार माणसांच्या आयुष्यावर बेततात पण सारासार विचार करणार कोण ?

अशाप्रकारे हिंदू संस्कृतीत अनेक सण साजरी करण्याची प्रथा आहे . यामागे सगळ्यांनी एकत्र येऊन खेळीमेळीचे वातावरण रहावे हा हेतू आहे . पण आता मात्र प्रत्येकाला फक्त आपल्यातला मी दिसते .काळाच्या पडद्याआड गेलेले काही अविस्मरणीय क्षण मनाला उल्हासित करतात . मग वाटते

प्रत्येक मासी
हर्ष मानसी
जुळतील कारे
पिढीतली अंतरे

Prof. Nilambri Narkar
Comps Department

बाप्पाचे मोदक

बाप्पा आले ,मोदक आले!
बाप्पा येई घरी जेव्हा
आजी मोदक करायची तेव्हा

नारळ-गुळाचे 'सुंदर' , 'पारंपरिक' व 'अप्रतिम' असे मोदक
माज आजच्या मोदकांत असते 'चॉकलेट' व 'क्रिम' ची भरमार

असो,

हे माज खंर आहे
बाप्पांच्या भक्तांमधे
'ती' श्रद्धा, भक्ति न् आस्था कायम आहे

पुर्वी सर्व कुटुंब एकज यायची उत्साहाने
सणावारांच्या निमित्ताने

पण आज 'न्यूक्लिअर फॅमिली' म्हणटले की ,
"आमच्याकडे वेळ नव्हे!"

साजरा होतो सण आज ही
माज रूप बदलले आहे

बाप्पाच्या मोदकांन सोबत
परंपरा ही बदलत चालली आहे....!

Prof. Bhagyashree Chari,
Dept of AS&H

प्रवास....

आयुष्य एक दुर्दम्य इच्छाशक्तीचा अनोखा प्रवास
हवा मात्र त्यासाठी संयमाचा दमदार ध्यास,

घेऊनी जन्म, राहुनी मग्न, भवताल मंत्रमुग्ध, सुरू होतो श्वास
अंगाई आसपास, बडबड धडपड अवखळ बालपणीचा सहवास
शिक्षणाची वाटे 'शिक्षा', सोडू नका कुठलीच कक्षा नसे अभ्यास
वनवास

निसर्गाची साथ द्यावी थोडी वाचणे लागेल गोडी
घडेल 'टाइमपास' चा वेळीच नाश, साहित्य संगीताचा निवास

अथक प्रयत्नांनी ,अनंत संयमांनी दूर होतील त्रास
आकाशी उंचीवरी जडणघडणीची लागेल सुगंधी आरास

जीवन नसेल निराश, सोडू नका नाविन्याचा प्रवास

Prof. Salil Thigale,
Dept of AS&H

तुमचा विसरलेला आनंद

आईबाबा जेव्हा त्यांच्या काळाच्या गोष्टी सांगतात तेव्हा आजची पिढी ' हे लोक नेहमी तेच ते बोलतात ' अशी काहीशी प्रतिक्रिया देतात. पण खरंच आधीच्या पिढीने सगळे सण ज्या पद्धतीने साजरे केले,त्यांचा अनुभव घेतला , ते क्षण जगले, उत्सवांचा ही मोहत्सव केला , ते सर्व आम्ही नाही अनुभवत.

जेव्हा सपाटून भूक लागते तेव्हा समोर जे काही वाढलं जातं, त्याची चव काही औरच असते. खेळून दमल्यावर पाणी पिताना तेच पाणी किती गोड लागतं . आम्हाला दम लागत नाही, आणि सपाटून भूकही लागत नाही. असोशी नावाची गोष्ट नाहीये आमच्या आयुष्यात.आमच्या आईबाबांच्या पिढीत हे मोबाईल फोन, एलईडी टीव्ही , कॉम्प्युटर यांचं अस्तित्व नगण्य होतं. त्यामुळे एकमेकांना भेटणे, मौजमजा करणे यासाठी सत्यनारायणाची पूजा, बारसे, लग्नकार्ये, मुंजा अश्या अनेक शुभकार्यांची वाट पहिली जायची. गावच्या जमिनींचे भावाभावात वाद जरी असले तरी सणाच्या वेळेला ते उकरून काढले जात नव्हते. सगळं एकत्रित कुटुंब दहाबारा दिवस का होईना एकत्र वावरत असे.

आमच्या पिढीसाठी मोहात पाडणारी अत्याधुनिक उपकरणे एवढ्या वेगाने बदलत गेली कि आमचा लहानसहान गोष्टीला आनंद आम्ही विसरलो नाही; तो आनंद खूप आधीच हरपलाय. जुन्या पिढीने प्रत्येकवेळी दुकानांमध्ये जाऊन खरेदी केलीय. एसटी बसचं तिकीट काढण्यासाठी एसटी डेपो त रात्रभर रांगा लावल्या आहे. लालबाग, परळचे गणपती पाहण्यासाठी रांगेत उभे राहिले आहेत ,ते पण श्रद्धेने.

आमचं काय झालंय की ऑनलाईन हवे ते अन्न मागवता येतं. ऑनलाईन हवे त्या वस्तू ,कपडे मागवता येतात. ट्रेन, बस, विमान, हॉटेल यांचं रिजर्वेशन चुटकीसरशी होतंय. गणपती बाप्पा आणि देवीची मूर्ती आणताना, दिवाळीचा कंदील, फराळ बनवताना , फटाके आणताना अंगावर रोमांच येत नाही. घरातील फ्रिज, टीव्ही,वॉशिंग मशीन, ओव्हन, एसी, विमाने, गाड्या हे चमत्कार आहेत यावरही आमचा विश्वास नाही. कारण आमचा जन्मच या सगळ्या गोष्टी असतांना झालाय. शोध लव्हाळे गेलेत यापेक्षा या सर्व गोष्टींचं अस्तित्व आधी पासूनच आहे असं वाटावं अशी आमची स्थिती आहे. आधीची पिढी तीनचार हजारातही आनंदी होती. आमच्या पिढीवर सहासात आकडी पगार मिळवण्याचा स्वतःच्याच अपेक्षांचा दबाव आहे. आमच्यासाठी गणपती नाही, तर ' एलिफंट गॉड 'ला 'वेलकम करायचं असतं.

अनेकवेळा सण असतानाच नेमक्या परीक्षा असतात. त्यामुळे धड सण नाही नी धड अभ्यास नाही अशी अवस्था असते. शाळा, क्लासच्या अवाढव्या फी आईवडिलांनी भरलेल्या असतात. टक्केवारीचा दबाव असतो. सगळ्यांसमोर स्वतःला अप टू डेट ठेवायचं असतं. नवीन फॅशन जुनी होण्याआधी तसे कपडे, ऐक्सेसरीज वापरयाच्या असतात. श्रीमंत आहोत असे भासवायचंही असतं. इतरांच्या नजरेत आपण छानच दिसलो पाहिजे, यासाठी आमची धडपड सुरू असते. आमचा आनंद इतरांनी केलेल्या स्तुतीत हरवलाय. फेसबुक, व्हाट्सअॅप वर लाईक्स नाही मिळाले तर मूड ऑफ होतो. त्यांनी आपल्याला लाईक करावं म्हणून सगळ्यांच्या पोस्ट्स ना लाईक करतो आम्ही, कुणीतरी स्टेटसवर जी इमेज टाकलीय त्यातले वाक्य आपल्यावर बोलले गेले तर नाही ना म्हणून आम्ही अस्वस्थ राहतो. समाज माध्यमांमध्ये हरवलेली पिढी आहे आमची. लंगडी, कबड्डी, लगेरी, लपाछपी खेळलेलं आठवत नाही. आम्ही भोवरा नाही फिरवत. जो आनंद आपल्या घरात माणसांमध्ये मिळवण्याचा प्रयत्न नाही केला, तो गॅजेट्स मध्ये कसा मिळेल.. ?

मोबाईलच्या सहा इंची स्क्रीनमध्ये आमचा आनंद हरवलाय; जो तसाही भ्रामकच होता.

Manashree Pakhre



TECHINICAL

KALEDIOSCOPIC
PERSPECTIVE

CHRONICLES OF TECHVERSE

Entering the multiverse of technology in 2022, we get immersed in a world of bullet trains, space and Metaverse. This year we saw the advent of cutting edge technology in Artificial Intelligence, fast cars and powerful rockets! With new inventions and powerful AI rolling out everyday, our world is transforming in the Cyberpunk Age. Everyone has a different vision for the Cyberpunk Age. Some envision sleek glass paned buildings with neon lights and electric cars as the future while some envision more calm, serene greenery and environment friendly modern cities. Some envisage space pods and civilisation living in these pods while some imagine humanity venturing to uncharted territory of another planet. Scientific Thinking has always been influenced by the belief and perspective of the one creating it. The Multiverse of technology exists in the shimmering glass

pane of kaleidoscopic perspectives of scientific thought and innovation. Humans have long been fascinated with space. The sight of stars glittering in galaxies to the formation of nebulas in deep space, the observations made by NASA telescopes and satellites has left people amazed. We live in an era where we get to countdown the launch of a rocket and watch it zoom away across the earth's orbit.

Elon Musk, the genius engineer and CEO of Tesla and SpaceX aims to reduce space transportation costs to enable colonization of Mars. SpaceX operates satellite internet services called Starlink. Starlink has launched over 3000 satellites in the Lower Earth Orbit and Sun Synchronous Orbit to cover every geographical

area on Earth. On the other hand, another tech mogul, Jeff Bezos, founder and CEO of Amazon is aiming to reduce space flight costs and develop humans living in self-sufficient space pods.

Exploring space is fun and so is scrolling through Instagram, Snapchat and Twitter. The social media technology impact on us and social media users has jet packed its way to billions of users. WhatsApp allows us with endless chatting and most of us are in over fifty WhatsApp groups and receive or send hundreds of messages everyday. Photos shared on Instagram become the talk of the town and stories keep us updated on what our friends are up to. In a café, mall or theater, send a snap to your friend! Instagram reels and formerly TikTok (RIP Tiktok) are a universe of its own oozing with talent, music and creativity

- Ahsaas Srivastava

TE EXTC

ONLINE AUCTION

Technology has kept evolving from time to time creating countless miracles and being a marvel in itself. Technology was not studied or invented by a single soul but many souls came together with their own set of perspectives and gave rise to the technology we are currently a part of and will keep being a part of, because of the indefinite changes it goes through each day. But technology ever after evolving and changing never changed one aspect about itself and that is its treatment towards the inclusive communities. In the eyes of technology, everyone was equally important as a "human", be it the marginalized communities, Gender Minorities or Persons with Disabilities.

Our solution to all this is online auction, a site we are creating to deal with all these issues. With our auction system there will be a broader variety of goods and a large number of buyers and sellers. There will be a low cost of transactions. We are making a platform that is flexible, convenient and easily accessible to all the participants in the auction. There will be direct communications between buyers and sellers. Our main goal is to provide an easy and accessible way for buying and selling over the web. Throwing over an engineering process from planning of project to its implementation. It is also helpful for us as we get to learn new languages such as SQL and HTML and its application.

Working:

After opening the site, the user lands on the login page where they can sign up as a new user or login using their details. New users have to prove their identity by uploading at least one ID issued by the government. After logging in, the user can either bid on other items or post their item for sale on the site. While posting an item for sale on the site, the seller has to upload a few details about the item such as a photo, for how much time the bid will be posted, category, sub-category, etc. While bidding on other items, the user can either set their bid or let the app auto increment the price. After a bidder successfully wins a bid, he will get a notification that their bid was highest and the item can be claimed, also the seller will get a notification that their item has been sold to this particular user at this price.

List Of Components Used:

- Java
- SQL
- HTML
- CSS
- JavaScript

ONLINE AUCTION

After this, they will have an option to chat regarding the shipping costs or some other details. The payment will take place through a bank payment gateway or a UPI id provided by the seller.

Admins are responsible for keeping the website secure. On the admin module of this site, the admin can keep a track of sellers, buyers, and ongoing bids. Also, they can ban users if there are some suspicious activities or scams. Admins also cross-check the authenticity of the documents of new users.

- Allen Swamy
SE COMPS

PRINTING REALITY

3D printing is at a tipping point and is on its way to become mainstream. The concept of 3D printing has advanced well beyond prototyping, constructing toys, and rapid tooling, despite the fact that many engineers and executives are unaware of it. Scientists are already on the path of creating artificial organs that function the exact way our organs work using this technology.

But this technology wouldn't have been possible in the first place without a unique perspective.

It all started in the 1980s when 3D printing was just an idea. Later in 1981, Hideo Kodama of the Nagoya Municipal Industrial Research Institute in Japan discovered a way to print layers of materials to create a 3D product. However, Kodama was unsuccessful in getting his invention patent authorized.

Finally, a stereolithography (SLA) prototype was made by an American engineer named Charles Hull in 1986. Hull employed photopolymers, commonly known as acrylic-based materials, to change from a liquid to a solid using UV light. The SLA printer was patented by Hull, and other businesses soon followed. A popular nickname for Hull is "The father of 3D printing".

The early 2000s saw repeated improvements and advancements in 3D printing, but it wasn't until 2005 that the technology started to gain widespread acceptance. Dr. Adrian Bowyer, an English professor, dedicated his career to developing affordable 3D printers. His "Darwin" printer, which cost less than \$650,

PRINTING REALITY

has successfully 3D produced more than 18% of its own components by 2008. As the price of 3D printers continued to drop, the demand for the technology grew, and they started to appear more frequently in homes and workplaces. The industry brought in more than \$1 billion in sales by 2014. 3D printing also had an impact on how people work, in addition to its tremendous financial impact.

Years went by and 3D printing technology experienced something no industry expert would have predicted. In the year 2020 when the pandemic hit it prompted numerous manufacturers and engineers to step forward, and the 3D printing community received numerous requests for the supplies and equipment it needed.

Observing the development of 3D printing and how firms from many sectors are cooperating to shape the market and the economy has been inspiring. One can say that it was the kaleidoscopic perspective of Kodama, Charles Hull, Dr. Adrian Bowyer and many more personalities that made the idea of 3D printing a reality.

- Shinell Athaide
TE COMPS

THE FUTURE - AI

Have you ever pondered upon how chess computers like deep blue are able to calculate moves almost spontaneously and are able to defeat renowned world chess champions? Thought about how video-streaming platforms "recommend" you what you would probably like to watch? The answer to all these questions lies deep in the world of AI. AI stands for Artificial Intelligence and as the word suggests it could probably replicate human intelligence. In my opinion, in about 20 years from now, AI could bring down the employment-population ratio. Research says that one AI robot deployed in an area, can do the work of 6 workers. GPT-3 the world's most advanced language model can code, compose introspective business letters with human priming can cause business letter writers to be unemployed. AI also will bring along with it innovation causing it to solve some or the other day to day life problem. AI cannot definitely replace physical things like a chair, table, etc but can be inbuilt in them making them distinctive. I think that AI can be useful for paralyzed people in the form of brain computer interface devices that talk to external devices which perform

THE FUTURE - AI

But how did AI come into existence?

The origins of artificial intelligence (AI) can be traced back to ancient myths, tales, and legends of man-made creatures that were given intellect or consciousness by master craftsmen. Philosophers' attempts to characterise human thought as the mechanical manipulation of symbols laid the groundwork for modern artificial intelligence. The programmable digital computer, a device built on the abstract core of mathematical reasoning, was created as a result of this work in the 1940s. A few scientists were motivated to start seriously debating the viability of creating an electronic brain by this device and the concepts that went into creating it.

Starting with the 'artificial neurons' model first put forth by Walter Pitts and Warren McCulloch. Then, in 1950, English mathematician and machine learning pioneer Alan Turing proposed a test to determine whether machines could display intelligence.

The first artificial intelligence (AI) program, dubbed "Logic Theorists" by Allen Newell and Herbert A. Simon, was developed 13 years later in 1955 and proved 38 out of 58 mathematical propositions. In 1956, AI was first mentioned in scholarly literature. At Stanford University in 1980, the American Association of Artificial Intelligence held its first national conference. The Jeopardy game show was won in 2011 by IBM's Watson; a computer program that had to solve tricky questions and puzzles.

Watson had proven its aptitude at understanding natural language and finding solutions to complex issues fast. In a demo, Google's artificial intelligence tool "Duplex" scheduled on-call appointments for a hairdresser while the caller on the other end was unaware that she was conversing with a machine.

The pace of AI development nowadays is incredible. Big data, data science, and deep learning are all popular right now. Companies like Google, Facebook, IBM, and Amazon now leverage AI to create amazing technology. Future research shows that artificial intelligence will become quite intelligent.

- Sam Saji
SE COMPS

RC AUTONOMOUS CAR

List of Components Used:

1. Raspberry Pi 3b+ for GPU and CPU computations
2. Web Camera
3. Four motors
4. Motor driver L298N which can control the four motors
5. 10,000 mAh Power Bank
6. Dc-DC Booster to boost the voltage taken from the battery

Purpose and Working:

Presently, in the early years of the 21st century, the pace of advancement is speeding up and the business is near the precarious edge of another innovative transformation: "self-driving" vehicles. A self-driving automobile, sometimes referred to as an autonomous car or a driverless car, requires no human input and is capable of detecting its surroundings without interacting with any people. To distinguish the path, obstructions, pedestrians, etc. from the surroundings, a variety of sensors are coupled. The RC Car prototype intends to build a completely autonomous car that can drive on a road with other cars and objects by combining image processing and lane detection algorithms.

In this prototype the use of technologies like Raspberry Pi, Python and motors were made. The car is made in such a way that it is capable of maneuvering around bends and detecting the path it has to travel. The current proposed system uses color detection to find which part is the road. We use cameras to detect the color pattern that will be on the roads. The camera will capture this color pattern and process it using a raspberry pi. We will then use the pixel summation algorithm to instruct the car to move in the specified direction. In detail this works by extracting the color range for the roads in HSV (Hue Saturation Value) color-space requires manual data collection in the beginning. The same stretch of road is recorded at various times of the day. A specific set of upper and lower boundaries for the HSV values is constructed by taking into account changes in color variation and light intensity. These HSV values differentiate between white road and black road and thus help in the movement of the vehicle. Many other features can be implemented in the prototype if user requirements are taken into consideration.

- Shaun Mascarenhas

TECOMPS

CNC MACHINE

What is CNC?

Computer numerical control, or CNC as it is more often known, is what it stands for. The technique of creating an item using a machine tool that is computer-driven is known as CNC machining. They create things out of plastics, metals, aluminium, wood and many other hard materials.

The father of numerical control is regarded as John T. Parsons (1913–2007), who founded Parsons Corporation in Traverse City, Michigan. Almost every industry uses parts that were CNC-manufactured.

reads the design and moves the workpiece and/or cutting tools along several axes to cut the required form. Modern CNC machines may carry numerous tools and can do a variety of cuts. Compared to manually moving tools and workpieces using levers and gears on earlier equipment, the automated cutting process is quicker and more precise.

CNC machinists must develop their metalworking and programming abilities. Students at technical trade schools and apprenticeships frequently begin their studies on manual lathes to obtain a feel for metal-cutting techniques. Using software nowadays makes creating complicated components simpler than ever since the part shape may be digitally sketched.

Type of Software Commonly Used in the CNC Machining Process

- Computer Aided Drawing
- The majority of CNC initiatives begin with CAD software. There are numerous CAD software packages available, but all are used to produce designs. AutoCAD, SolidWorks, and Rhino3D are examples of popular CAD programmes. Some CNC tools have superior CAM capabilities or interact with CAM software than others.
- Computer Aided Manufacturing
- Users of CAM can create a "job tree" to arrange workflow and define tool paths. Popular CAM programmes include Solidcam, Mastercam, Edgecam, OneCNC, and HSMWorks. Almost 50% of the high-end CAM market share is accounted for by Mastercam and Edgecam.

CNC MACHINE

What are the Different Types of CNC Machines?

CNC machines are machine tools whose types include plasma, laser, milling, routing, and lathes machine. On an assembly line, CNC machines may even pick up and move products. CNC machines are capable of a wide range of tasks. Today, computer technology can be installed on almost any equipment conceivable. The CNC eliminates the requirement for a human interface to move machine parts to get the desired outcome. Today's CNC machines can take a basic material, such as a block of steel, and turn it into a very complicated product with exact tolerances and excellent reproducibility.

Putting it All Together: How CNC Machine Shops Make Parts

A CNC machine requires both a computer (controller) and a physical setup to operate. Raw materials can be fed into a machine, and finished items can be packed and ready to ship. Depending on the work, CNC machines may often be run "lights-out" with no operator present.

Future of CNC Machines

A CNC machine requires both a computer (controller) and a physical setup to operate. Raw materials can be fed into a machine, and finished items can be packed and ready to ship. Depending on the work, CNC machines may often be run "lights-out" with no operator present.

- Farhan Khan

TEIT

THE ADVENT OF AI IN HEALTHCARE

Data is what drives today's world. The healthcare industry is growing day by day. More people are concerned about their health, which leads to more individuals using the healthcare service, like visiting the hospital. As the population grows, so does the amount of available data. Since its emergence in the 1950s, artificial intelligence has had an impact on a wide range of fields; however, it has had the greatest impact in the field of healthcare.

The genesis of AI in medicine and healthcare began in 1959, when in a study that was published in Science, Robert Ledley and Lee Lusted examined the possible use of electronic computers while demonstrating the significance of reasoning processes in medical diagnosis.

THE ADVENT OF AI IN HEALTHCARE

This work is the initiating paper that launched the field of medical informatics and the evolution of AI in healthcare began. With different perspectives, AI in healthcare evolved and even after 63 years it is still growing and as new ideas arise from the previous ones and life gets easier, we have come to a point where life would be difficult without AI in healthcare.

The evolution of AIML in healthcare began with data management. AIML helps to unravel a massive quantity of medical records and make powerful diagnoses. Patient data from multiple sources, such as fax, clinical data, and so on, can be retrieved using AI, allowing doctors to quickly access patient data with minimum error. It can alert clinicians to the possibility of any ailment that requires attention. It also aids in the interpretation of medical images that might be linked into Electric Health Records (EHRs). It is more accurate in reflecting how doctors process information.

AI has also proven useful in predicting medical disorders such as heart attacks. Many AI-powered wearable health trackers have been developed to monitor a person's health and offer alerts when the gadget discovers odd or improbable data. As the demand for medical help has expanded, so has the development of AI-powered virtual nurses. One example of a virtual nurse is Sensely, which uses natural language processing, speech recognition, machine learning, and wireless connectivity with medical devices to provide medical help to patients. It offers clinical guidance, appointment scheduling, and ER nurse line directions. With AIML, we focus on generating healthy models in order to train models that operate effectively in a medical setting while creating actionable insights about human health. It is also evident that despite the hazards and so-called "threats," artificial intelligence is aiding humanity in a variety of ways.

AI is transforming the field of image diagnosis in medicine by using neural networks and deep learning models. It took over the difficult analysis of MRI data and simplified the procedure. Large and complex data sets may be evaluated using neural networks, which is exactly what a team of academics at MIT did. They created a neural network called VoxelMorph, which was trained on over 7000 MRI scans. VoxelMorph was able to outperform traditional MRI analysis methods. The neural networks performed MRI analysis in seconds, whereas a traditional MRI programme takes hours.

- Amisha Narvekar

TE COMPS

LANGVERSE: E-Learning Application

The demand for learning a specific foreign language is quite high, whether it is due to a visit to a foreign land, acquiring education in a foreign country, or simply out of curiosity. But it is impossible to find a native tutor for any foreign language, online platforms and this is where online applications come into play. E-learning is a method of structured teaching-based learning that makes use of electronic resources. It is critical to recognise the advantages and efficacy of technology-based learning. The human brain is thought to remember and relate to what is seen and heard in photos and videos. Most importantly, people can learn to speak while sitting in the comfort of their own home.

The motivation for developing this application was to create a user-friendly application. Learning a foreign language has always been in high demand, and making content easily accessible so that a user willing to learn a foreign language can do so from the comfort of their own home was the idea behind this application. We also wanted to learn a new programming language, so we chose Kotlin over Java.

The availability of this application over different versions of android was taken care off as we created this app using Android studio. Some of the many features of our application included the user could learn multiple languages under one single application, each language was divided unit wise for better learning experience, there was an exclusive module for tracking the progress and helping in the revisions, recommendations of podcast, music and even movies of the selected language, a user-friendly GUI, and many more. Future scope of our application would be adding more languages, addition of units and also in-depth covering of all the languages for the user. Our group didn't restrict to just the mini-project, but participated in the IET competition with this application.

- **Conrad Lynn**
TE COMPS

SOLARIS

List of Components

- Arduino Uno - 2
- 4 channel Relay
- HC-05 Bluetooth Sensor
- Male/Female jumper wire
- DHT-11 Temperature Sensor
- Ultrasonic Sensor
- Switches
- Loads
- Bulbs
- Adapter
- Fan

SOLARIS

Purpose and Usability

Innovation emerges in response to changes in client expectations and demands, or vice versa. In any case, firms all over the world must constantly innovate in order to meet the needs of their customers. Due to advancements in technology and state of the art developments in the field of automation and AI, our project "SOLARIS" has developed a fully automated smart home with luxurious features that cater to customers' needs from various walks of life. Our system would help cater to the needs of disabled individuals and patients with paralysis.

The system can be connected via Bluetooth in close-range scenarios and can also be connected via the internet which makes it dual-connected software. Which constructs the basic layout of the system. We have also designed an application through which we can control the entire layout of the automation system at the tip of your fingers. Solaris uses an android app for the interface allowing you to control the lights, fans, and other applications remotely using your phone. The App supports voice command feature as well. The connections made are customizable to the customer's requirements.

- **Glenn Peter Pereira**
TE COMPS

Metamorphic Virus Detection Using Uniform Characteristic

A computer virus is a program that, when executed, replicates itself without the user's permission or knowledge. On execution, the virus loads itself into the computer's memory and continues to run even after the host files shut down its execution. Metamorphic virus (one that can transform based on the ability to translate, edit and rewrite its own code) use certain code obfuscation techniques like Register Swap, Junk Instruction Insertion, Instruction Transposition etc., to change new generation "shape" but not its behaviour. Code obfuscation techniques are performed on both the data section and the control flow of an assembly program.

To detect viruses, the most commonly used techniques are Signature Detection where a group of bits search for the presence of signatures and if the signature is found then the file is marked as infected, and the other technique used is

Metamorphic Virus Detection Using Uniform Characteristic

Heuristic Analysis which operates in two phases. In the first phase it finds a specific part where the virus is likely to attach itself and in the second phase it determines the program logic of the parts identified in the first phase.

The proposed methodology by me works in 2 phases – The Learning Phase and The Testing Phase. In the learning phase, a CPU Emulator is used. This software simulates the behaviour of a CPU by allowing viruses to execute in an environment it cannot escape. Virus code that runs in an emulator is then disassembled into individual instructions. Junk instructions inserted in code are removed. Then from disassembled virus instructions extract virus features & API calls. Count frequency of occurrence of particular feature & API call. Store frequency of occurrence in database. Features & API calls are arranged in descending order depending on frequency of occurrence.

Next in the testing phase, a CPU emulator is used so that virus detection is performed at the entry point. Initially a code is disassembled into individual instruction. Junk instructions are removed. Features are extracted & first similarity test is performed. If features are similar, then extracted feature is virus & virus database is updated else next Similarity Analysis is performed on extracted feature. If similarity score is equal to threshold, then extracted feature is virus & database is updated else next Alter distance test is performed on extracted feature. If Alter distance value is greater than zero, then extracted feature is virus & database is updated else next dummy is provided for execution. If dummy file size increases after execution, then the extracted feature is virus & database is updated. Periodically a database is refreshed so that frequently encountered features are on top of the database. Further techniques like Similarity Index Test, Statistical Analysis and Computation of Alter Distance (used to measure the number of alter operations needed to alter one string into another) was made.

Our proposed system shows that the morphed viruses having arbitrary percentages of dead code and subroutine insertions are still detectable within a certain error rate using alter distance methods.

Comparing the API call a metamorphic virus can be detected.

- Prof. Nilambari G. Narkar
(COMPS DEPT.)

METaverse

Where Imagination Turns To Reality

The metaverse is a fictitious version of the Internet as a single, ubiquitous, and immersive virtual world made possible through the usage of virtual reality and augmented reality headgear. But the thing is: The metaverse is not new. There are many key historical milestones that led to the current technology of metaverse on which companies like Facebook and Microsoft are working so intensively.

It all started in 1838 when scientist Sir Charles Wheatstone outlined the concept of "binocular vision" – which is the combining of two lenses to create an illusion of the image in depth. Inspired by this idea is what led to the making of the current VR Headsets, which work on the same concept of "binocular vision". Later in 1935, an American science fiction writer Stanley Weinbaum in his book *Pygmalion's Spectacles* shows how the main character explores the fictional world using a pair of goggles that provide sight, smell, taste, smell and touch. This is enchanting to see how a fiction work inspired personalities to further work on the technology. Later in 1956 Morton Heilig created the first VR Machine by combining 3D video with audio and scents.

Neil Stevenson, in his 1982 novel *Snow Crash*, coined the term "metaverse". Stevenson's metaverse pictured a virtual world in which characters may escape from a bleak totalitarian reality. In the early 1990s SEGA introduced VR machines like SEGA VR – 1 motion simulator. Palmer Luckey, an 18-year-old entrepreneur and inventor, designed the Oculus Rift VR headset prototype in 2010. The cutting-edge headset's 90-degree field of vision and usage of computer processing power revived interest in VR.

Many companies came together in collaboration, to turn the idea of Metaverse into reality. Switzerland based company IKEA joined the metaverse in 2017 by making the Place App, which allows a customer to place and view how the furniture will look in your home or office. In 2021, Facebook changed its name to Meta, indicating its focus on shaping the future of Metaverse technology. In 2022, I believe we will continue to see enormous advances in immersive experiences. For example, Apple is currently developing headsets that could eventually replace our smartphones as the interface to the future metaverse.

One can say that the discovery of Metaverse is enchanting in itself. A day will definitely come when each idea and perspective will come together and create a virtual world -- all while relaxing on their couch in the real world.

- Rickin Sibi Joseph

TE COMPS

COMPUTER VISION

Computer vision is a branch of artificial intelligence (AI) that allows computers and systems to extract usable information from digital pictures, videos, and other visual inputs and then perform actions or make suggestions based on that information. If AI gives computers the ability to think, computer vision gives them the ability to see, observe, and comprehend. With cameras, data, and algorithms instead of retinas, optic nerves, and a visual cortex, computer vision teaches computers to execute similar tasks in much less time. A system trained to inspect goods or monitor a production asset can quickly surpass people since it can analyze hundreds of products or processes per minute while detecting undetectable faults or errors.

More than 50 years ago, Marvin Minsky made the first attempt to simulate the human brain, sparking additional study into computers' ability to absorb information and make intelligent judgments. Lawrence Roberts, the father of computer vision, discussed the possibility of extracting 3D geometrical information from 2D perspective views of blocks in his Ph. D. thesis at MIT.

Experimentation started in 1959 while neurophysiologists confirmed a cat with an array of pics, trying to correlate a reaction in its brain. They determined that it replied first to tough edges or lines, and scientifically, this intended that photograph processing begins off with easy shapes like direct edges. In the 1960s, AI emerged as an educational subject of study, and it additionally marked the start of the AI quest to remedy the human imaginative and prescient problem. Another milestone was reached in 1963 while computer systems had been able to convert two-dimensional pics into 3-dimensional forms.

1974 noticed the advent of optical individual reputation (OCR) technology, that could apprehend textual content published in any font or typeface. In 1982, neuroscientist David Marr established that imaginative and prescient works hierarchically and delivered algorithms for machines to hit upon edges, corners, curves and comparable simple shapes. Concurrently, computer scientist Kunihiko Fukushima evolved a community of cells that would apprehend patterns.

By 2000, the point of interest was to have a look at becoming an item reputation, and through 2001, the primary real-time face reputation packages appeared. In 2012 a cat's picture was recognized by the deep learning algorithm made by Google Brain's Neural Network.

- Gauri Jadhav
TE COMPS

INCLUSIVITY IN STEM

Technology has kept evolving from time to time creating countless miracles and being a marvel in itself. Technology was not studied or invented by a single soul but many souls came together with their own set of perspectives and gave rise to the technology we are currently a part of and will keep being a part of, because of the indefinite changes it goes through each day. But technology ever after evolving and changing never changed one aspect about itself and that is its treatment towards the inclusive communities. In the eyes of technology, everyone was equally important as a "human", be it the marginalized communities, Gender Minorities or Persons with Disabilities.

Technology evolved in a way that it understood that even a person with disability should live a happy healthy life or in one can say a "normal" life. Let me narrate to you a beautiful encounter I had with one of the fellow passengers in the train. This fellow passenger in the train was very much engrossed in his phone.

The thing I observed was that he was using a virtual assistant which I was not much familiar with, so out of my sheer inquisitiveness asked him about the app which he was using. He turned towards me and I realized that he was blind and later on he told me that he was an app developer.

It was his hobby to make apps like these for people with disabilities, an interesting fact was that he was supported by his wife who is also an app developer. She helped him to create apps while the ideas were given by him. Anyways the virtual assistant that was created by him was named after his mother "Sheena". So, he says "Hey Sheena" just like we say "Hey Siri" to our iPhone assistant. He was even approached by several companies that make products for the people with disabilities to buy his app, but he never accepted their offers. The one thing that surprised me was that he never went to any college or did not attend any courses but still he was quite knowledgeable about the latest technologies.

- Jeevan Varghese

TE IT

ELECTRIC VEHICLES (EV)

The sudden charge towards electric vehicles that the world is experiencing today was in the making for a much longer time than we think. The year was 1828, when Anyos Istvan Jedlik introduced the world's first electric motor, however, it was an American Inventor, Scotsman Robert Anderson, who developed the first working electric car in the 1830s. But it was because of Anyos's motor design that the first electric car was powered and began a revolution that the world today is experiencing many centuries later. Later William Morrison created the first electric automobile in the year 1891 in the USA. EVs gained popularity in the 1900s. Although there were some setbacks, EV flourished in the later 1990s and has now become a customer's first choice when coming to buying an automobile. In India, the first electric vehicle, a 3-wheeler came into existence in the year 1996 by a company named Scooter's India Pvt Ltd, and it was named VIKRAM SAFA.

This is the golden-era of electric vehicles and a revolution in the automobile industry is in the making. We are lucky to experience this marvelous invention due to the unique perception of personalities like Anyos without whom the idea of EV would have just been just a pipe dream, and anyone can innovate in the sector!

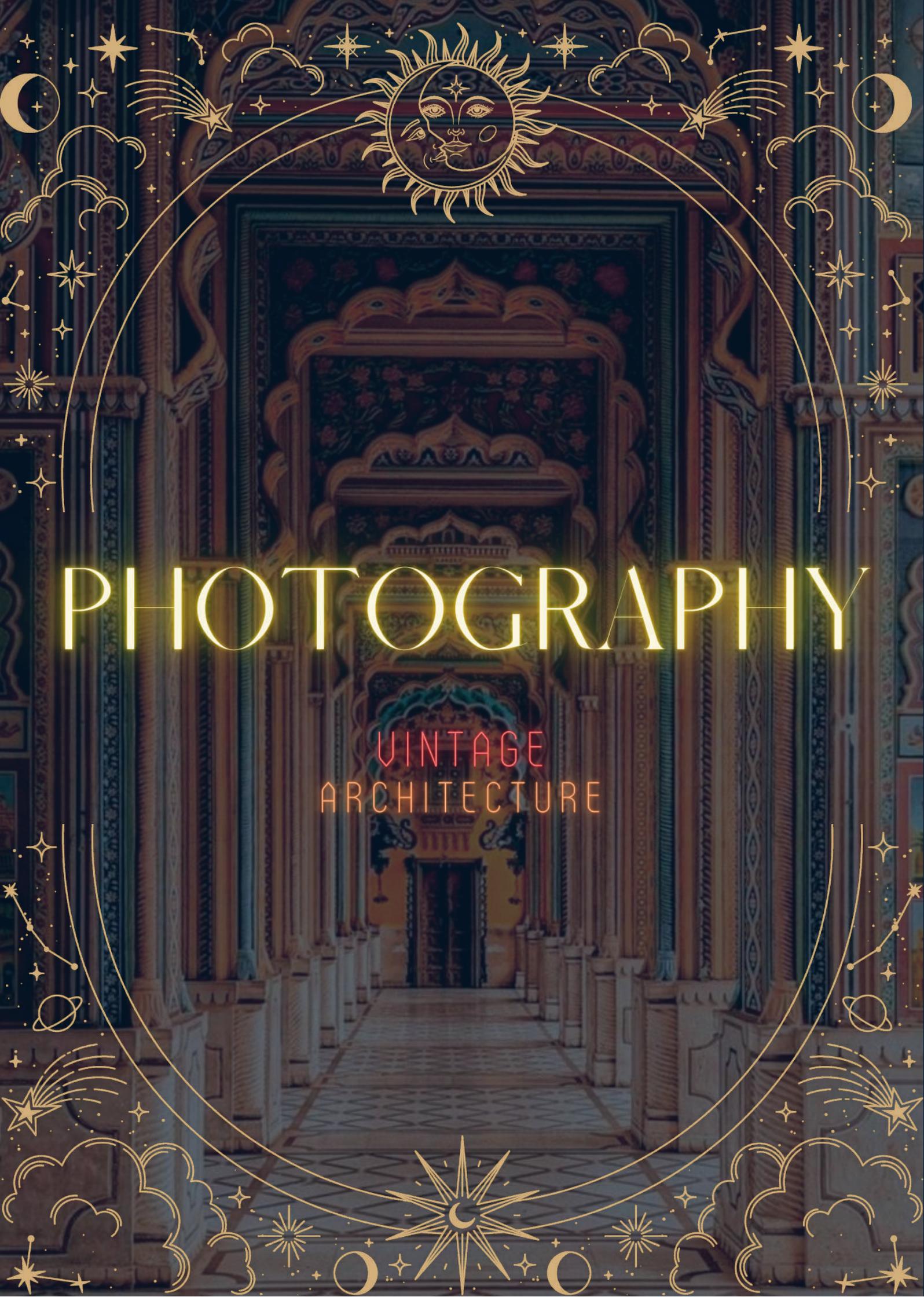
48 percent of the 168 percent rise in sales projected for 2021 came from two-wheelers, 47 percent from three-wheelers, followed by 4 percent from passenger cars and a tiny 0.36 percent from electric buses. According to the IVCAEY-IndusLaw, factors including the demand for personal mobility and the increase in gasoline and diesel prices are supporting the boom in EV sales.

Twenty percent of EV registrations in India's most populous state, Uttar Pradesh, saw the majority of EV sales. According to the report, "electric vehicles accounted for 1.1 percent of all vehicle sales as of CY21 and are predicted to account for 39 percent of all automobile sales by CY27 growing at a 69 percent CAGR over the next 5 years."

According to the survey, there are now just 1,742 charging stations in the nation, but that number is predicted to rise to 100,000 by 2027 in order to meet the demand created by the 14 lakh million EVs that are anticipated to be driving on Indian roads by then.

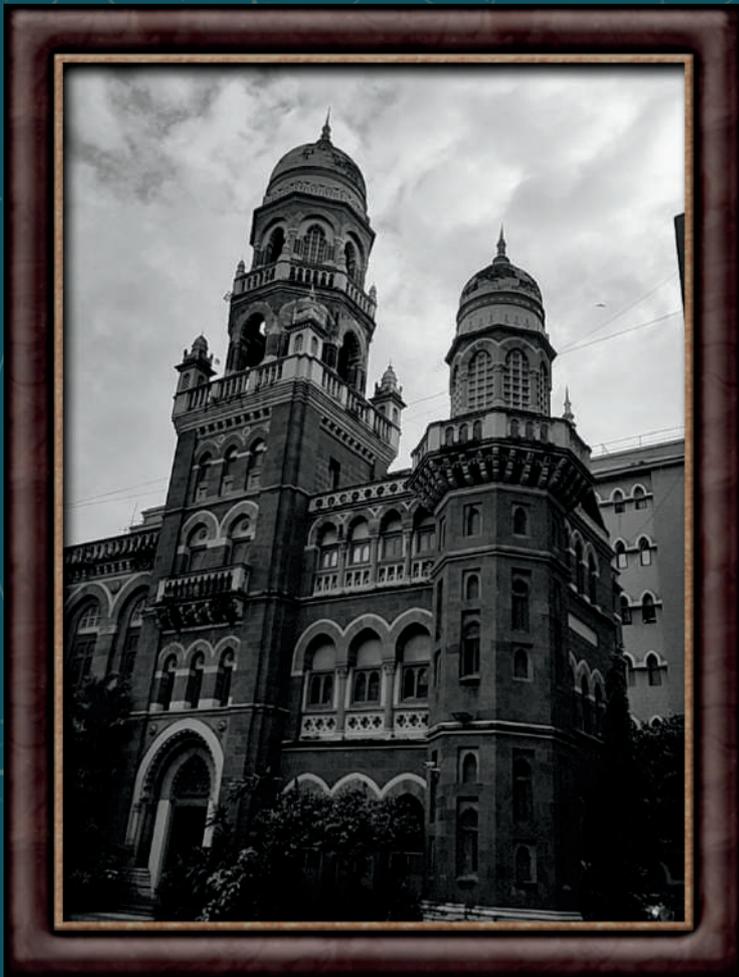
- Harshita Gupta

TE IT



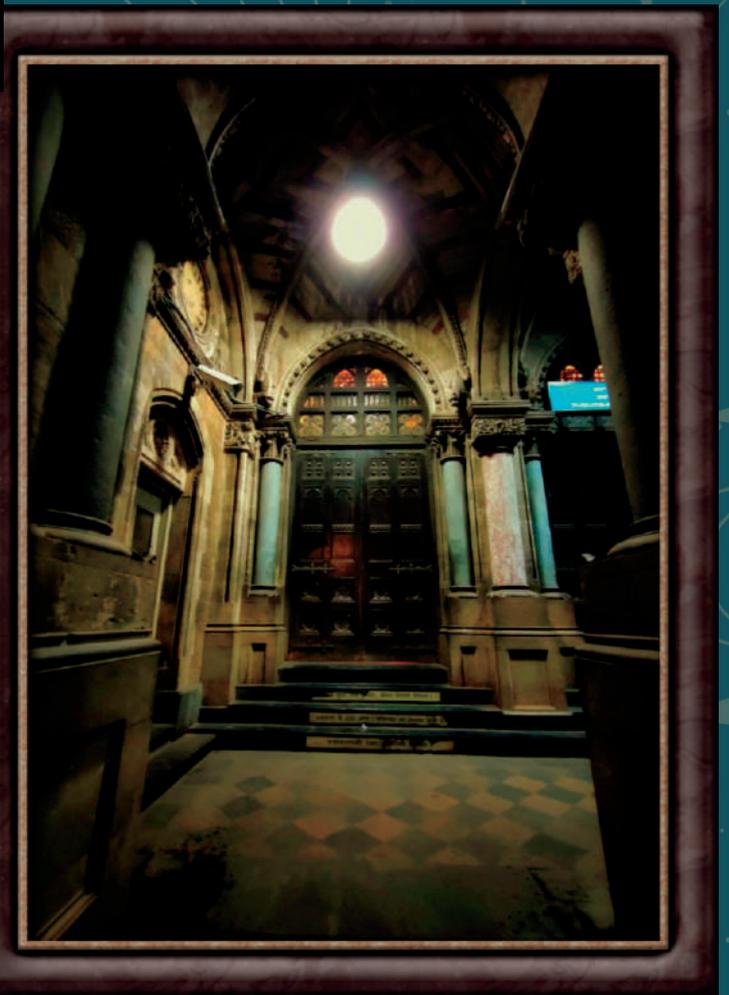
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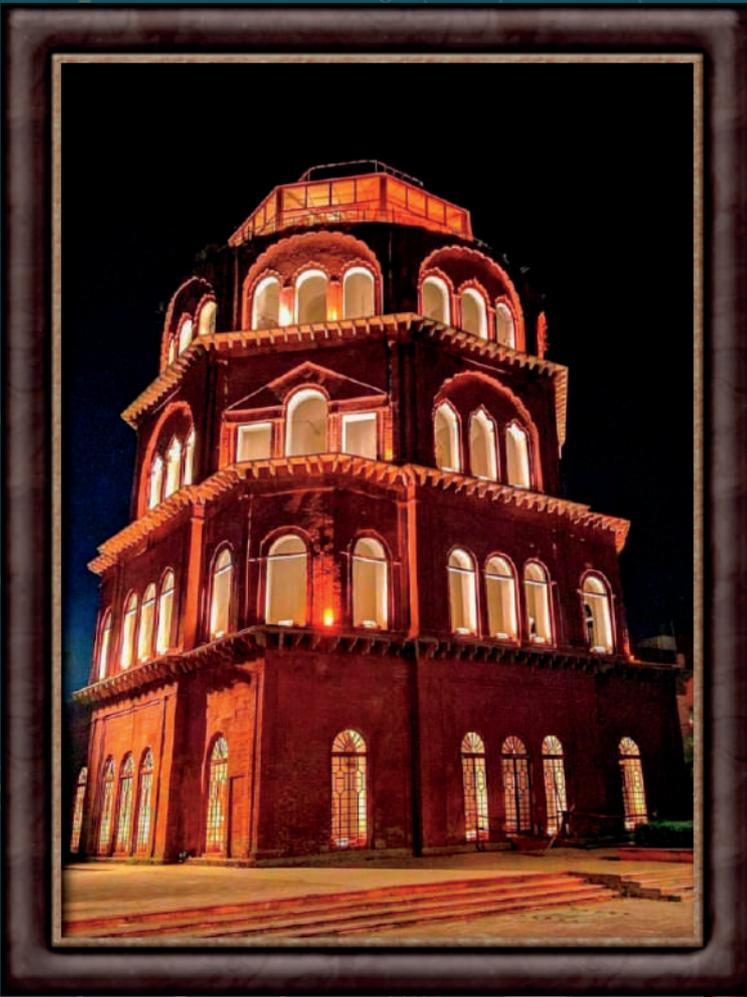
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ARCHITECTURE



**PRIYA HARSHE
(TE EXTC)**

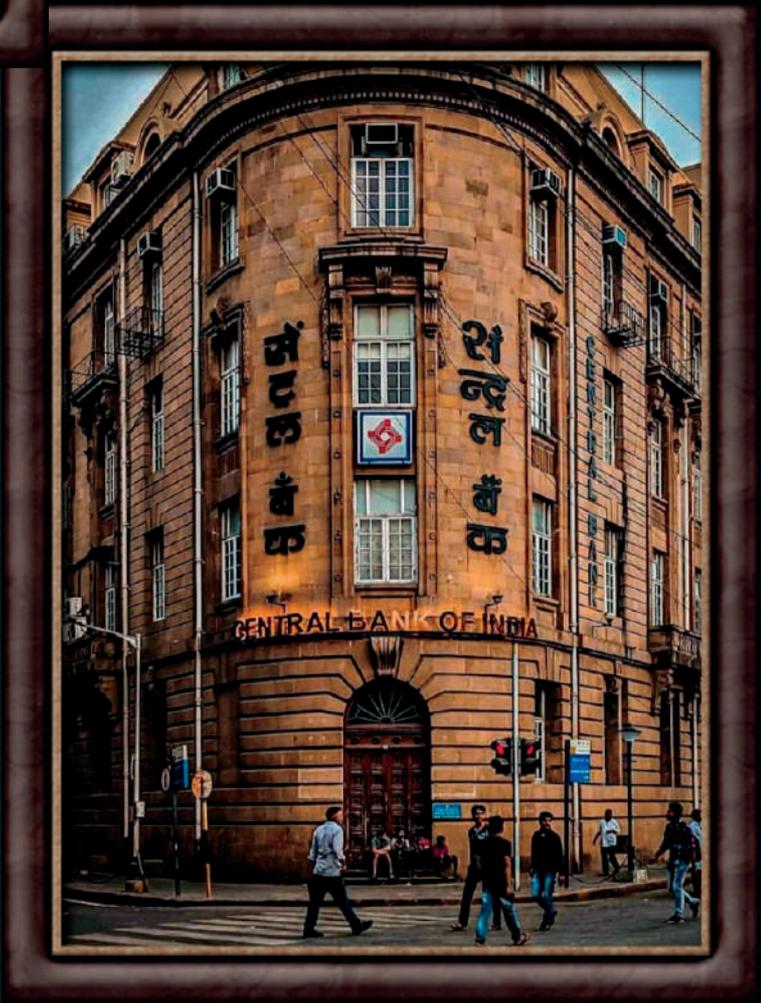
**PRIYA HARSHE
(TE EXTC)**





**ROHAN SINGH
TE EXTC**

**ROHAN SINGH
TE EXTC**





**RISHABH TIWARI
(TE EXTC)**

**RISHABH TIWARI
(TE EXTC)**





**CHRIS RAYAN
(SE COMPS)**

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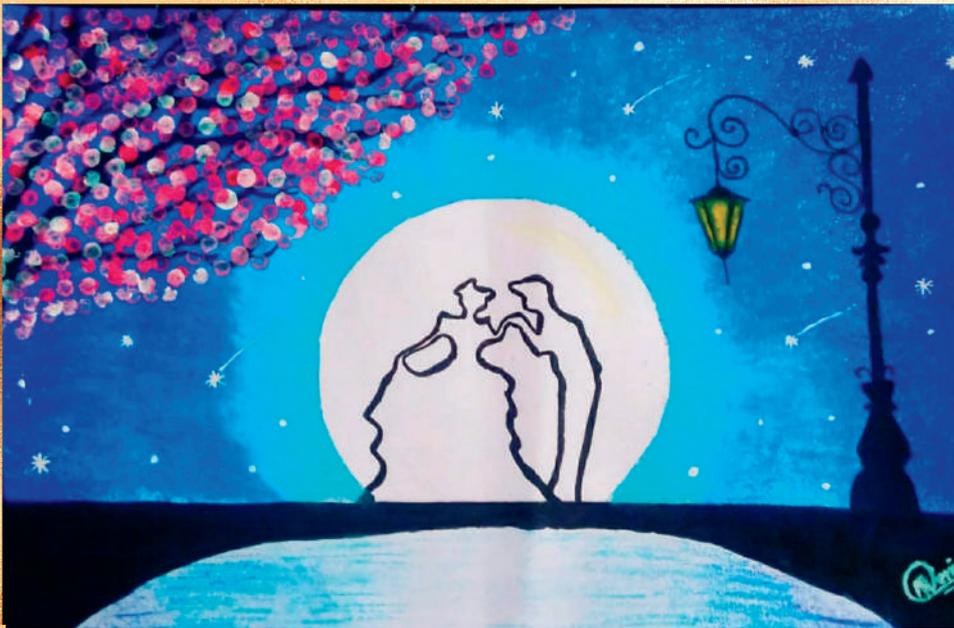
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(SE COMPS)**





SKETCHING & PAINTING

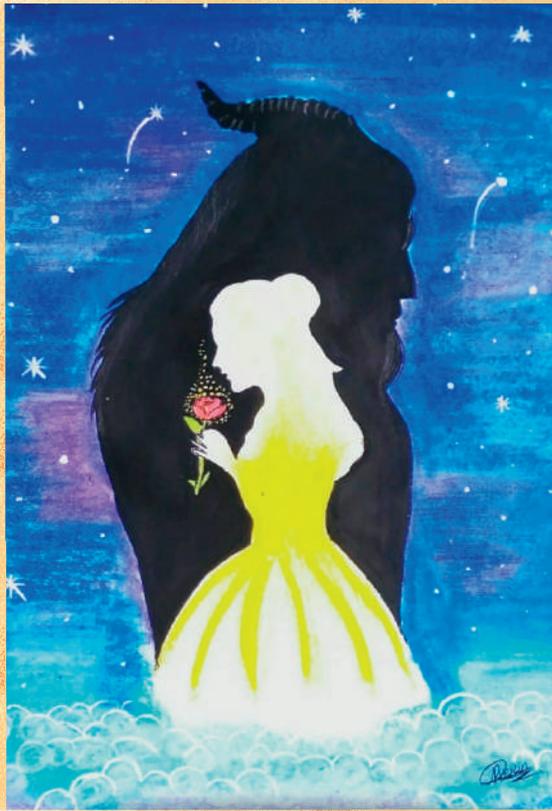
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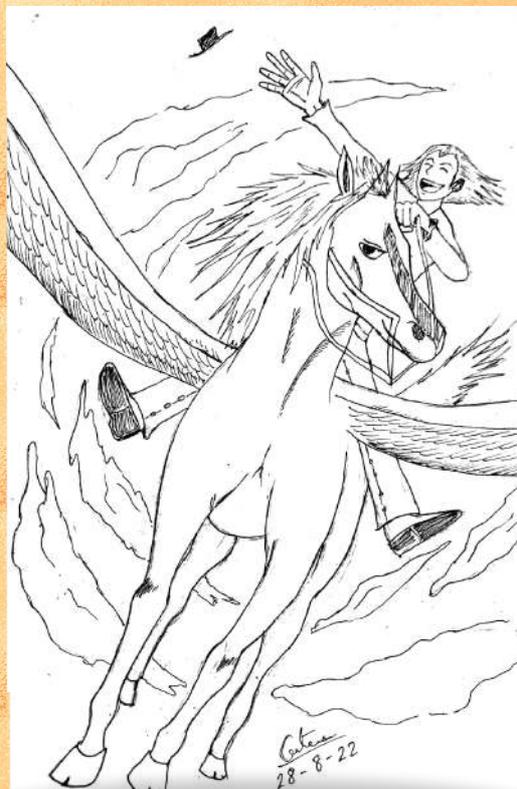
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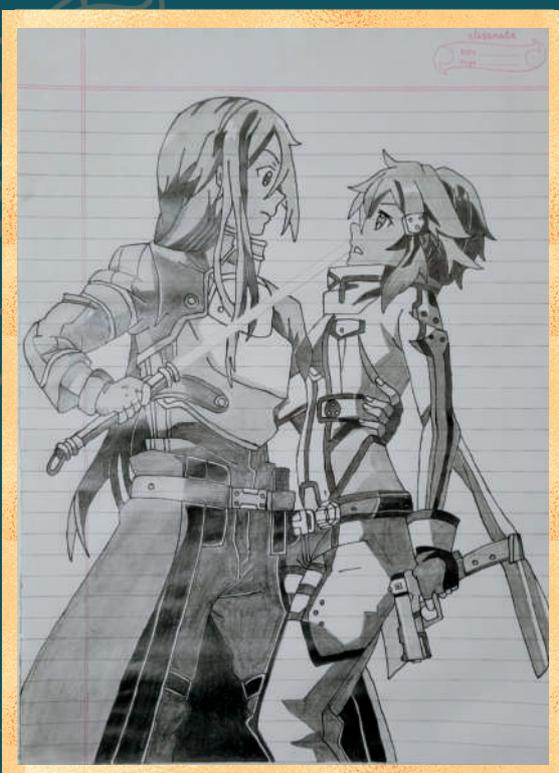
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CHRIS RAYAN | SE COMPS



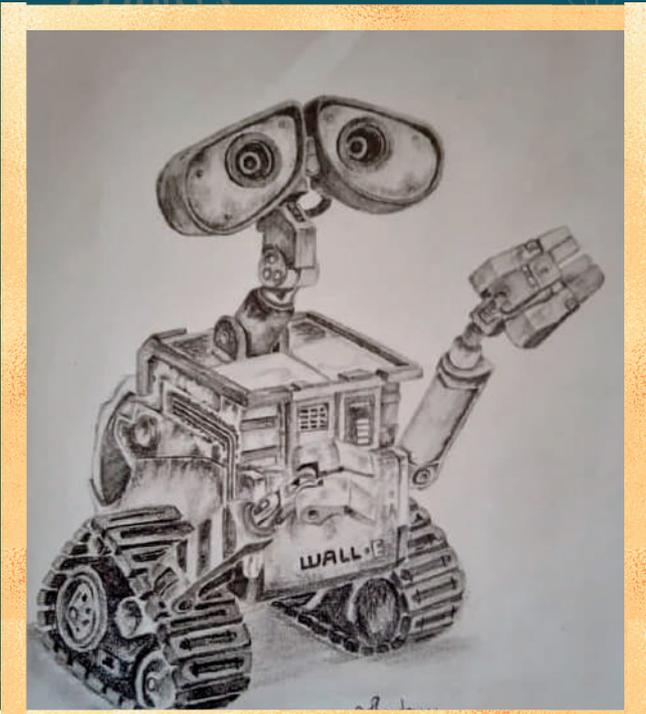
CHRIS RAYAN | SE COMPS



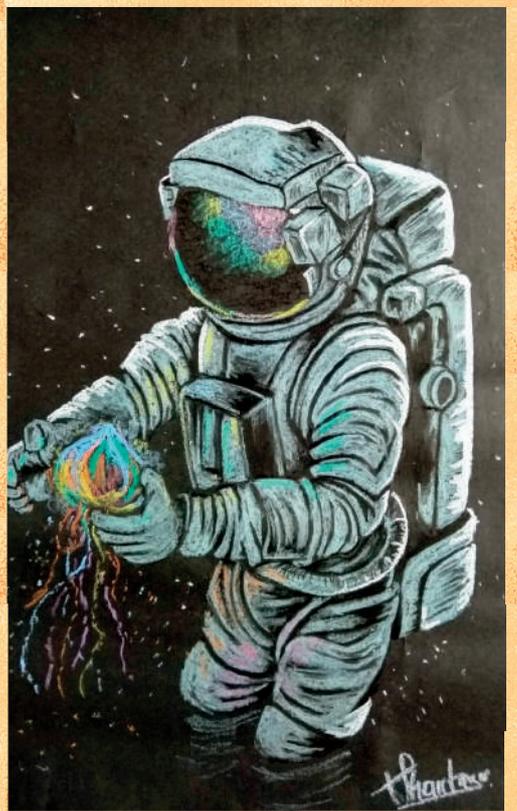
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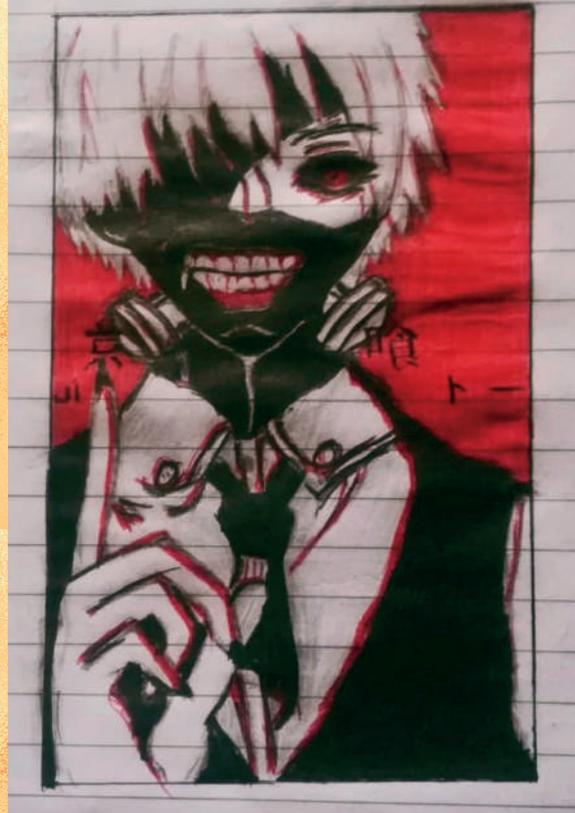
**SHANTANU SHINDE |
SE COMPS**



SHANTANU SHINDE | SE COMPS



SHANTANU SHINDE |
SE COMPS



MAHESHWARAN | SE COMPS



CHRIS RAYAN | SE COMPS



CLASS PHOTOGRAPHS



BE-COMPS



BE-IT



BE-EXTC



TE-COMPS



TE-IT



TE-EXTC



SE-COMPS



SE-IT



SE-EXTC



FE-A



FE-B



FE-C



FE-D



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OFFICE STAFF



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SECURITY TEAM



HELPING HANDS



CONNEXIEON TEAM

Editors' Gratitude

"The moment we think of the world as disenchanted ... we set limits to the ways the past can be narrated."

There is a melange of marvels and wonders in every field in life that needs to be recorded and known, because navigating and understanding our past helps us in the present and the future.

Through '*Enchanting Chronicles*', us Xavierites have aimed to capture these magical, vibrant and enchanting moments of our past; so that they can guide us as a beacon-light in our present-day's journey. The "*Enchanting Chronicles*" are an inspiration, a motivation to the way or the path to something, embraced by our past, that was simply wonderful.

We would like to first extend our 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 the way in creating this magazine. We are very grateful to our Head Curator, Prof. Saniya Gonsalves for providing relentless support during the ups and downs of creating this enchanting chronicle. We would also like to express our appreciation to our Ombudsman, Rev. Fr. Dr. Lance Prabhu SJ who helped with the editing process.

As it's said "The first draft reveals the Art, but the final draft reveals the Artist", the editing process is one which we could not have done without. In this engaging and engrossing process, the ones who guided our steps in the right direction, were our gracious teachers. We would like to thank Prof. Saniya Gonsalves, Dr. Vaishali Gaikwad, Prof. Stella J., Prof. Shilpa Dingakar, Prof. Zeba Ansari for the English, Technical, Marathi and Hindi sections respectively

Editors' Gratitude

Nothing can be more enchanting than casting a spell on y'all readers with the work of our brilliant magazine committee. Their hard work, their efforts worked like swooshing a wand and the unity of our team has just added the final sparkles to it. A huge thanks to our Graphics team for their dazzling ideas, that brought this magazine together in such a beautiful way. Secondly, our Reports team and the Publicity team for being the eyes and words of the team and keeping us updated with all the XIE-ting happenings at XIE as well as keeping everyone well informed of the team's work. As we all know, "we cannot light the lamp without fire", next we would like to thank all our faculty members and students for sending in their precious work and giving us the opportunity to showcase their talents to XIE. And finally the Editorial teams; English, Marathi, Hindi and Technical section editors for their dedication and fascinating work behind editing all the articles in such a way that not only sustained their originality but also revealed a bewitching final output.

Our experience as the Editors-in-Chief has been nothing less than an enthralling journey. We cannot be grateful to everyone who believed and supported us.

We hope that Connexieon 2023 shows everyone that there is an enchanting and magical part to all of us, we are just yet to tap into it.

With Grateful Hearts,
Priya Harshe and Sharon Sebastian
 Editors-in-Chief,
 2023.

XIP





RESULTS

FOR THE GREATER GLORY OF GOD

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