

FR CONCEICAO RODRIGUES COLLEGE OF ENGINEERING



PRESENTS

VENGEOR

VENI VIDI VICI

I CAME , I SAW , I CONQUERED

FRAGMAG 2023

VENI VIDI VICI

THIS PHRASE, FAMOUSLY ATTRIBUTED TO JULIUS CAESAR, TRANSLATES TO "I CAME, I SAW, I CONQUERED" AND PERFECTLY CAPTURES THE ESSENCE OF THE ARTICLES AND CREATIVE WORKS IN THIS ISSUE. VENCEDOR MEANS WINNER IN PORTUGUESE.

**LIFE IS A BATTLEFIELD, THEY SAY
AND EVERY DAY, WE FIGHT IN SOME WAY
AGAINST THE ODDS, WE MUST PREVAIL
AND NEVER LET OUR SPIRITS FAIL**

**WE FACE CHALLENGES BOTH BIG AND SMALL
SOME MAKE US STUMBLE, SOME MAKE US FALL
BUT WE RISE UP AGAIN, AGAIN AND AGAIN
STRONGER AND WISER, WITH EACH PASSING PAIN**

**WITH EVERY TRIAL, WE LEARN AND GROW
WE DISCOVER STRENGTHS WE DIDN'T KNOW
WE FIND NEW WAYS TO FACE THE FIGHT
AND EMERGE VICTORIOUS IN THE LIGHT**

**FOR THE BATTLE IS NOT WON IN A DAY
IT'S WON WITH EVERY STEP ALONG THE WAY
IT'S WON WITH COURAGE, FAITH, AND GRACE
AND A DETERMINATION TO WIN THE RACE**

**SO WHEN LIFE'S BATTLES COME YOUR WAY
REMEMBER TO STAND TALL AND SAY
"I AM A WARRIOR, STRONG AND TRUE
AND I WILL CONQUER, WHATEVER I PURSUE"**

**FOR IN THE END, IT'S NOT THE PRIZE WE GAIN
BUT THE PERSON WE BECOME THROUGH THE PAIN
SO LET US FIGHT WITH ALL OUR MIGHT
AND EMERGE VICTORIOUS IN LIFE'S BATTLES, BRIGHT.**



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EDITORIAL DESK



To fully succeed in life, we must learn to value the journey rather than the destination. Rather than continuously searching for something bigger and better, we must discover joy and purpose in the small moments and experiences that make up our life. Winning in life is not a goal that can be achieved, but rather a continuous journey of self-discovery and growth. It necessitates that we be open to new experiences, learn from our mistakes, and seek to be the best versions of ourselves at all times. In the end, winning in life is about who we become rather than what we do. It is about living a life of purpose, passion, and meaning, and making a positive difference in the world.

I'd want to express my gratitude to Rev. Fr. Valerian D'Souza, Rev. Fr. Trevor Pereira , and Dr. Surendra Singh Rathod, our principal, for their unwavering support and leadership. I would like to express my deepest gratitude to Dr. D.S.S Sudhakar (Dean of Students' Affairs) and Mr. Jayen Modi (convener), without whom the magazine could not have been organised. Dr. Joseph Rodrigues (English Editors), Prof. Deepika Singh Singraur (Hindi Editor), and Mrs. Jyoti Kargutkar(Marathi Editor) are grateful for their tireless assistance. I'd want to express my heartfelt appreciation to the volunteers (Risa Almeida, Om Kodte, and Yashas Joglekar) for their assistance.

The captivating designs seen deeper in the magazine are the result of the design team lead by Tanuj Kumbhar's hard work and dedication. A special thanks to Ivan D'silva and the webmasters (Vignesh Kombathula and Chris Gracias) for pouring in the time and effort to build an engaging website for the magazine. "Teamwork makes the dream come true." The production and organisation of the magazine has been a process that I would not have been able to complete without the unwavering support of my Students' Council. Thank you so much to the senior council for always having my back, and to my hardworking junior council for their tireless efforts every step of the way. I also want to thank my senior Alisha Rao, her insights and wisdom helped me navigate through challenging situations. Our team has worked tirelessly to bring you a magazine that reflects the diversity and creativity of our college community. Whether you're looking for inspiration, entertainment, or thought-provoking ideas, you'll find it all within these pages.

"Art is not just a luxury, it is a necessity. It has the power to inspire, to challenge, to comfort, to heal. It enriches our lives and connects us to our humanity, reminding us of what it means to be human." Inside FragMag, you'll find a wide range of content from our talented contributors, all inspired by the theme of victory and achievement . From personal stories of overcoming adversity to thought-provoking essays on success , FragMag's "2023" edition is sure to inspire and motivate you.

So join us on a journey of exploration, discovery, and triumph to become VENCEDOR.

~ Dhruvi Panchal
Editorial Secretary



DIRECTOR'S DESK

'Veni, Vidi, Vici'

(I came, I saw, I conquered)

Coined by Roman General Julius Caesar in 47 BC as the full text of his message to the Roman senate, describing his victory over Pharnaces II of Pontus in the Battle of Zela, the Latin phrase 'Veni, Vidi, Vici' means 'I came, I saw, I conquered.' Caesar made a triumphant march back into Rome to celebrate his victory over Pharnaces, and his procession included a *titulus*, or placard, on which the words, 'Veni Vidi, Vici' were written.

Take the Unbeaten Track

Just like Julius Caesar, as brilliant students, you too can make your vision limitless, keep your focus, achieve your passion and go for things you may not have achieved otherwise. It may take time, so be persistent and one day you will succeed. Bollywood superstar Shah Rukh Khan, an industry outsider who came down from Delhi and once famously said he would rule the city of Mumbai one day, has completed over 25 years of his incredible journey in the city of dreams. They say that records are meant to be broken, fortresses are built to be conquered and benchmarks are set to be achieved because if it wasn't for a record to be broken, A benchmark to be achieved or a fortress to be conquered, nobody would have ever built it in first place. Anything can be achieved but for that you should leave no stone unturned and victory will be yours. It could be in any field – academics, sports, fine arts, public speaking, creativity and more. You have the skillset, so explore it further. "To be a champ, you have to believe in yourself when nobody else will," says Sugar Ray Robinson. If you believe that you can achieve it, you can do it. "Never give up on what you really want to do. The person with big dreams is more powerful than one with all the facts," said Albert Einstein.

Olympic Gold Quest

The first to reach a set number of goals is the winner. Michael Phelps, an American former competitive

swimmer, is the most successful Olympian of all time with a total of 23 gold medals – the most Olympic gold medals ever won – besides three silver and two bronze medals. He also holds the world record of eight gold medals at the 2008 Beijing Games, the most by an individual at any single Olympic Games. What made him stand apart? Truly, his commitment and dedication to the sport he loves. He came, he saw, he conquered.

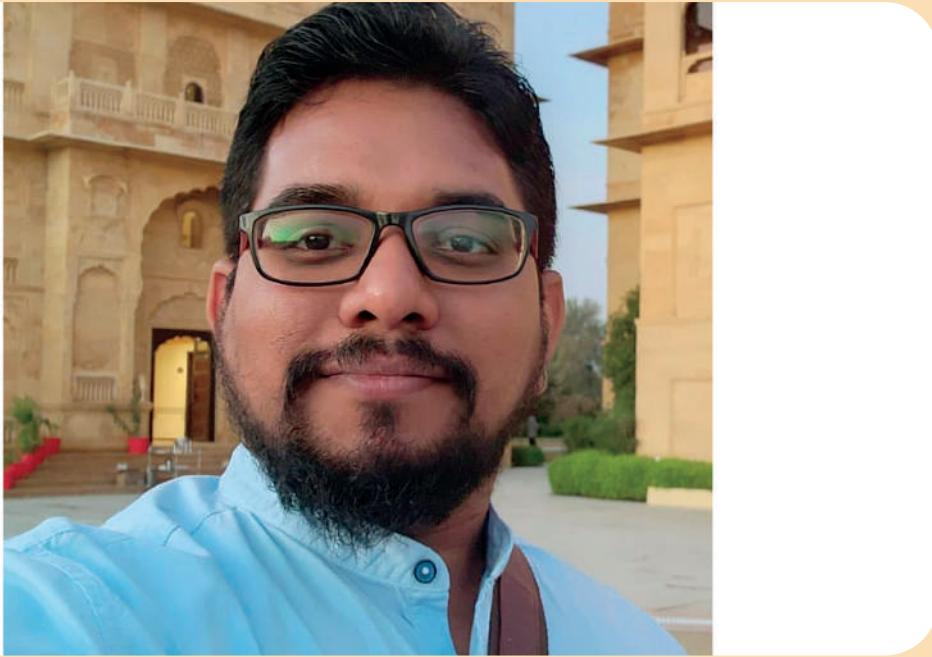
Keep Going

"Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time," said Thomas Edison. Sachin Tendulkar made his international cricket debut in 1989 and the first century in 50-overs cricket came in 1994. It took him 78 matches to get there. Thereafter, there was no looking back. Today, he is the world record holder and the only cricketer with 100 international centuries, across all formats of the game. Never Quit. Colonel Sanders' 'secret recipe' was rejected over a thousand times before anyone accepted it. Today, people enjoy the delicious 'Kentucky Fried Chicken' offerings at over 41,000 KFC restaurants in more than 125 countries.

In conclusion, the three steps for great leadership that we can learn from Julius Caesar are:

1. 'Veni: I Came': The first lesson in leadership we can learn from Caesar is 'to show up', and be present when it matters most. A leader's presence in his environment becomes a necessity and not a choice.
2. 'Vidi: I Saw': Caesar saw opportunities where others saw problems. He drew from the diversity of ethnicities and cultures to improve his army and make his presence felt in foreign conquests.
3. 'Vici: I Conquered': During his time, Caesar was considered the most powerful man in Rome. He rose through the ranks and achieved victories, ultimately elevating him to one of the greatest conquerors in history

**- FR. VALERIAN D'SOUZA,
DIRECTOR**



ASSISTANT DIRECTOR'S DESK

"Engineering is the closest thing to magic that exists in the world" -- Elon Musk.

first of all, congratulations on choosing Engineering as career and welcome to creating magic. College by design is a place for knowledge and personal growth. This happens on campus and off campus, by learning— to study and gain knowledge which is the professional part and on the personal front, how to overcome obstacles and developing tools to succeed. Lectures, the social fabric and the course content which is part of college life gives you young people the push required to accept life with all its challenges. The college believes in 'You' and prepares you for the future.

Strengthening your foundation

College campuses are good places for students to learn and practice getting up over and over again to achieve more than they think is possible. Each semester is a challenge! Setbacks are a part of life and hardships are to be faced and overcome. The foundation is laid in school and strengthened in college. Virtual communication is a sign of our times. There are quite a lot of students who are using social media to find human connection instead of seeking out the face-to-face interactions that build strong relationships and are critical to well-being and development. Nothing can replace the warm hug of a friend! While there are many fun moments, there are also times of loneliness, struggle and failure. It is our duty to do our best always; get up and get going while things are tough. At the same time, appreciate moments when things are not 'exciting' as that is also life Sharpening soft skills

Some of you may have just entered college, while some of you may be in the middle and some at the end of four years of Engineering education. I am sure it has been quite a journey! While the first lot is learning, the last lot is looking forward to a new phase, where besides their degree there are other skills that require to be honed. Searching a job, attending an interview and networking are the soft skills that one needs to focus on, while one is still in college or in the last semester of college.

It always helps to have more knowledge about how to build early career paths. Skill sets that may seem small but are very important. This can include basic skills like latest computer skills, coding and more professional-specific skills that are more technical. Other important pointers that crop up later are how to negotiate the first raise or how to maximize the benefits a company may be offering.

As Engineers, learn that it's never too early to develop the financial literacy that is required to navigate parts of your career and finally to strike the fine yet right balance between life and work.

**- FR. TREVOR PERIRA,
ASSISTANT .DIRECTOR**



PRINCIPAL'S DESK

As the dust settles on the battlefield, the sound of victory echoes through the air. The vencedor has emerged, triumphant and glorious, basking in the adulation of the crowd.

Dear Readers, As I sit down to write this message, I can't help but feel a sense of excitement and anticipation. The theme of this edition of FRAGMAG is Vencedor - Veni Vidi Vici, which is Latin for "the winner - I came, I saw, I conquered." This theme is all about the thrill of victory, the sense of achievement that comes with hard work and dedication, and the feeling of being on top of the world.

What makes a vencedor? Is it strength, skill, or sheer determination? Perhaps it is a combination of all three, along with a healthy dose of courage and a relentless spirit. Whatever the formula, the vencedor is a force to be reckoned with, an inspiration to all who seek to achieve greatness. But the vencedor is more than just a player who wins. They are a leader, a role model, and a beacon of hope for those who follow in their footsteps. They inspire others to push beyond their limits, to strive for excellence, and to never give up, no matter how difficult the journey may be.

There is something special about the moment when you achieve a goal that you've been working towards for a long time. Whether it's winning a championship or simply achieving a personal milestone, that feeling of accomplishment is truly unparalleled. It's what keeps us pushing forward, even when things get tough, and it's what makes us strive for greatness.

Of course, the road to victory is not always an easy one. There will be setbacks and challenges along the way, and it's important to stay focused and determined in order to overcome them.

But when you do finally achieve your goal, the sense of satisfaction and pride is more than worth it.

The theme of Vencedor - Veni Vidi Vici is also a reminder that winning isn't just about the end result. It's about the journey that gets you there. It's about the hard work, the dedication, and the perseverance that you put in along the way. These are the things that make victory truly sweet.

In life, we can all be vencedores, if we have the courage and determination to pursue our dreams. Whether it's achieving success in our careers, overcoming personal challenges, or simply striving to be the best version of ourselves, we can all find inspiration in the vencedores around us.

So, to all of our readers, we hope that this edition of FRAGMAG inspires you to keep pushing forward, to keep striving for greatness, and to never give up on your dreams. Remember, the road to victory may be long and difficult, but the feeling of accomplishment at the end is more than worth it. So, let us celebrate the vencedor in all of us.

Veni Vidi Vici - we came, we saw, we conquered!

- DR. SURENDRA SINGH
RATHOD

—ENGLISH—

EDITORS DESK

"Veni, Vidi, Vici- I came, I saw, I conquered." These words spoken by the legendary Roman general Julius Caesar have become popular saying in modern times. This phrase personifies the spirit of victory and the determination to accomplish something, no matter how challenging it is.

One can achieve victory in any field of their life, it could be sports, academics, politics, startup, business, or even war (not in the current scenario, of course). But to taste the sweetness of triumph, it is necessary to be focused, determined, and consistent in whatever you do. Because as they say," Rome was not built in a day", victory is not achieved in a day. It takes hours and days and even years of hard work before you reach your pinnacle. In the journey of victory, you will face multiple hurdles and failures, but this is not your sign to stop, it is a message for you that you are reaching closer to your goals. And make sure to celebrate every small achievement, because these little things are the stepping stones to a bigger, brighter success awaiting you.

There are multiple examples of victorious people around us. One of them is, Jack Ma, the founder of Alibaba began his early life as a teacher. He learned English from the tourists who visited China. He has failed several examinations and job interviews (including a job interview for KFC). But treating these rejections as opportunities to learn and grow, Ma, went ahead to found 'Alibaba', one of the most successful e-commerce companies. It was not easy for him, as, he spent years with no profit, but he never gave up and harmoniously worked on his company. And the result, we all can see it.

In conclusion, a winner's mindset is concentrated, determined, and resilient. It is the ability to set clear goals, learn from failures, maintain a positive attitude, and stay motivated even when faced with challenges. By cultivating a winner's mindset, we can achieve victory and overcome all obstacles.

-Dr. Joseph Rodrigue
-Risa Almeida

हिंटि

EDITORS DESK

जीत जीवन की

जीतना नहीं है एक बस एक मुकाम,
प्रत्येक क्षण में नया है लक्ष्य और नाम।

कुछ तोड़ेंगे आपकी खुशियों के तारे,
पर आपका सफर है बेहतरीन अपने आप में अनुपम।

हर रोज सूरज नया उगता है,
ज़िन्दगी में आपका हौसला बुलंद करता है।

सोचो मत हार देने के बारे में,
जीत के लिए आप तैयार हो जाएँ।

क्योंकि जीतना है जीवन की सारी लड़ाइयों में,
आपके बस में नहीं होगी कोई हार की छापी।

समय के साथ होगा तुम्हारी मुलाकात,
जीत हमेशा नहीं मिलती बस बढ़ते रहना चाहिए कदम।

ज़िन्दगी का खेल है यह जीत और हार का,
लेकिन जीत के साथ ही होता है असली करार का अहसास।

जीत जीवन की लक्ष्य बना कर,
चलना है तो बस जीत की ओर।

- दिपीका सिंह
- ओम कोडते



मराठी

EDITORS DESK

वाचक हो !

आपल्या आयुष्यात काही व्यक्तिंना आपण प्रसिद्धीच्या शिखरावर पाहतो किंबहुना त्यांच्या कार्यानि ते वेगळ्या उंचीवर पोहोचतात. तिथे पोहोचण्याचा मार्ग केवळ खडतरच नाही तर खपू काही शिकवणारा असतो किंबहुना वाईट अनुभव देणारा देखील...

आलेल्या अपयशातनू खचून न जाता, ही माणसे आपले ध्येय ठरवतात आणि मार्गस्थ होतात. तिथे नसते कुणाशी जिंकण्याची स्पर्धा किंवा कुणाबरोबर हरण्याची भीती. तिथे असते एकच स्वप्न ध्येयपूर्तीचे. हाच एकाकी मार्ग त्यांच्या प्रवाहाला प्रेरणा, ऊर्जा आणि उत्साह देतो.... आणि देतो निखळ आनंद कार्य पर्णूत्वास नेण्याचा.

वाचक हो! हाच मतितार्थ सांगणारी 'विन्सीडोर' (Vencedor) ही आपल्या ह्या वर्षीच्या फ्रागमँगची सकंल्पना आहे. मराठी विभागातर्फे ही लेखमाला/ लेखसंग्रह तुमच्यापद्धे ठेवताना मला संपादक म्हणनू खूप आनंद होत आहे आणि मला खात्री आहे की हे लेख तुम्हाला देखील सकारात्मक ऊर्जा दिल्याशिवाय राहणार नाहीत !

-ज्योती करगटुकर
-यशस जोगळेकर

ENGLISH LITERATURE



ENGLISH

From God's own country

Indian mythology mention the legends of 'Vishnu- the preservator'. The generous nature and ruling power of King Mahabali made him popular in heaven, earth, and the netherworld (Patal). Seeing King Mahabali's fame made the lustrous Swarg's ruler Indra and other gods and goddesses in the heavens envious. They feared losing heaven's throne and conspired to end king Mahabali's reign. Lord Indra prayed to his mother Goddess Aditi to sort out heaven's unforeseen problem. Goddess Aditi prayed to Lord Vishnu to find a solution. Further, Lord Vishnu made history in the epic story by coming to earth disguised as a dwarf brahmin 'Vaman'. He visited king Mahabali and asked for three feet of land equivalent to three paces of his feet for meditation. The kind-hearted king willingly agreed to gift Vaman though Sukracharya, his preceptor, had warned him not to do so.

In no time, Vaman metamorphosed into Vishnu's gigantic form and his first feet conquered the Earth, and second feet conquered the whole Universe. When asked where he can keep his third step, King Mahabali accepted his fate and to protect his people, he offered his head. Hence, Lord Vishnu emerged the winner. (Vencedor)- He came, saw, and conquered. (Veni-Vidi-Vici)

Witnessing the probity of King Mahabali, Lord Vishnu granted the king's sole wish and bestowed him a boon that he could visit his homeland 'Kerala' once every year during the harvest season. Thus, his yearly homecoming is marked with the celebration known as Onam. His revisit is a reminder of the virtuous rule and humanity in keeping his promise to Lord Vishnu.

God's own country Kerala has witnessed its golden years in the reign of King Mahabali, where everyone was contented and gleeful in life and there was equality among the people. It is believed that no thieves or crimes were happening in the kingdom. Hence, people never locked their doors. People were simple and truthful.

In present times, the lessons drawn from this mythological story in a sequence are as follows. First, it warns us that overpowering can mess up one's life due to ego and greed. Second, to believe in god. Prayers can give you the grace to live a beautiful life and solve your problems. Third, give respect and listen to teachers and elders. Their experiences give us valuable pieces of advice in good and bad times. Fourth, being human is the only characteristic that will keep people connected.

ENGLISH

Fifth, our virtues will sustain and people will remember us for the best we have done for them.

King Mahabali thus became the greatest icon of India. His sacrificial nature to protect his people and generosity to offer whatever they wished made him the most adorable king. He came, saw, and conquered (Veni-Vidi-Vici) and won the hearts of the people thus making himself the Vencedor in this world.



Today, Keralites have popularised the virtuous king internationally and they welcome him with pompous celebrations and wonderful floral decorations relishing a special banquet called 'Sadya' and joyously extending wishes for 'Happy and Prosperous Onam'.

- Dr. Joseph Rodrigues

ENGLISH

Success has no Fear

Which emotion do you think is the most powerful in your life? Love? No. Although we confuse ourselves into believing that love is the strongest emotion that drives our life, we may not be completely right here.

The two most dominant emotions are fear and anger. If we think about it, every decision in our life is fully or partly controlled by the ultimate fear. Fear can consume a person and trick them into making the wrong choice. I have made many bad decisions in my life due to this one feeling called "fear". So, why am I discussing fear? That's because fear may affect our ability to make the right choice and lead us in the direction opposite to triumph.

Let me narrate a little story from my life. When I was in the 10th grade, I did well in all my subjects except maths, and that is because, firstly, I didn't like practicing it, and secondly (the most important reason) my sir never had faith in me, he believed that I sucked at maths and would not be able to do anything good in my life. He never motivated me to practice it but instead would barb at me. This was the scene since day 1 of my math lecture, so things became worse for me and I had no self-confidence. I even started loathing this beautiful subject. I had nobody to motivate me, and no proper guidance, and the end resulted in fear. Every time someone mentioned 'maths', my anxiety reached its peak.

So, after my 10th I decided not to take the science stream. I had this locked in my mind, "I was good for nothing and would never be able to ace mathematics." But my mom suggested I take the science stream. I was skeptical but ended up choosing it.

I can't describe how anxious I was on the very first day of my maths class in 11th grade. In a classroom full of smart students, I didn't want to look derpy. The lecture began, and sir taught us a concept and gave us another sum to solve. My hands shivered as I solved it (but I

didn't find it difficult). In the end, when sir checked everyone's answers it turned out that only my solution was correct. Yes, I couldn't believe it either and said, "But sir, I am sick of maths" to which he replied, "No, you are very good at it" and gave me a chocolate. Ever since that day I've been one of his favorite students and I never let him down, also I always scored the highest in maths and he was never surprised by it.

Thinking of it now, if I would have chosen some other stream instead of science and let my fear take over then I would have never ended up doing Computer Science and all those beautiful concepts of maths, physics, chemistry, etc would have never crossed my path. So, this is my small story of a victory that means a lot to me. Ever since this incident, I've learned to overcome my fears in a lot of other aspects of my life

ENGLISH

This was not my biggest achievement, but it was my first step towards that big victory that awaits me. I have also learned to celebrate these small victories and push myself to do better in the future.

I will conclude by saying, never let your fears force you into choosing something you don't want. And remember to abide by this quote in your life, "the first rule of truly living: do the thing you are most afraid of."

**-Risa Rajesh Almeida
SE Comps A**

Divided we fall
United we stand
From strangers to family
Our journey began
Multiple hurdles we crossed
Numerous battles we vanquished
Taking A journey as the BOSS
They watched in anguish
Flipping every stone
Trends we decide
Rocking and rolling
Our worries died
Millions of memories
A lifetime to adore
From decades to centuries
They live forever more
We yell with pride
Because that's what matters
At the end of the day
It's always...
AAVAJ KONACHA???
MECHANICALCHAAA

**-Kaviraj
BE Mechanical**

ENGLISH

Conquered Or Be Conquered

" The first and greatest victory is to conquer self "

Life is an open canvas and with the right brush and the right amount of motion, beautiful art can be created. So, if one is committed to striving the need of developing one's persona, one must conquer the anguished one might face in this era. Depending on your commitment to encouraging and empowering yourself to conquer what is rolling against you, you can make a difference and take yourself wherever you want. Below are some exemplary stories which depict how people become makers of their condition and how to conquer them. There was a girl who was obstinate in determining herself as per the societal criteria in which she decided collectively to bring herself to everyone's opinion. Through this, she asked everyone their point of view and took their suggestions about their perspective and what to be improved. Everyone gave their outlook on how to materialise, behave and act. With every arduous change, they demanded she rectify every day with every new outlook imposed on her. Every day she was approached with new judgments and she inadvertently took them as time went on. After a while, one day she looked at herself in the mirror and couldn't recognize herself. The way her persona was completely changed right from how she looked, the core of her personality was changed and she

became a spectacle for society by letting them take charge of her. So, no matter how much you try to please the people around you, they will create a new scenario for you to please them. It is like a person trying to quench their thirst by drinking seawater. Considering the naivety of a person it takes time to realise that everyone has their own opinions about you which suit their purpose. But, the most important perspective is your own. So, conquer the feeling of dependency, the urge for the need for approval through other opinions and establish your aura in your way.

In a grazing field, a bull fell into a well, eventually, the farmer found out about this, and instead of thinking about the bull he barbarously thought that this is an old bull and it is better to buy a new strong bull rather than putting in to save this bull. As he had outlived his usefulness, he called some residents to help him fill the well with mud so that the bull would be buried and they could fill the well with water. As they started shovelling the mud, the bull after a while started crying and made noises for them to know but they didn't even have the itch to reconsider its actions. Consequently, the bull found himself to calm down and when the mud was flung on him instead of impeding himself by crying, he shook the mud off himself and stood on it. Soon he was out of the well and to their dismay the farmer was surprised and recognized his utility. So, the farmer came to caress him but the bull recognized his action so he reacted by swiftly kicking him. So, the indication

ENGLISH

here is that some value you because of what you bring to the table and utilise it with full potential for their benefit. They will revere you when they want and establish an exploiting relationship unilaterally beneficial to them. When their work is completed and they have exhausted you to their purpose, they abandon you. It is up to you for alerting yourself and creating a crosswalk that does not divulge them. Life chips away at us all, where some play the victim, some choose to be a survivor and then some choose to conquer. So, be encouraged to walk with your own feet rather than with sticks found by others. Learn to try and not let others roll you over. Once a wise man and yogi were invited to an event as chief guests. The wise man upon his arrival found himself in a storm of easily triggered people. Before he could reach the event, this group collectively started objecting and abusing him which infuriated the wise man. The wise man got himself entangled in a debated argument. In doing so, he had the event he wanted to attend elapsed whereas, when the yogi arrived, he was also given the same retribution. But he listened to every single opinion and abused them. After some time, he looked at the time and said to them that he had to be at the event after which he would return and listen to them. So, rather than being a reactionary slave to people's words, do what must be done and where you want to be rather than getting hindered by the opinions and views of strangers. Some people will object and it is up to you to conquer the desire to react to each abuse. But when a person moves away from people's objections and opinions and moves according to himself, he becomes the true maker of his destiny. "Fight with your mind. Subdue with your heart. Defend with your body. Conquer with your soul."

— **Matshona Dhliwayo**
Nivesh
BE Mechanical

ENGLISH

The Magic of Poetry: How Words Can Move Mountains

Poetry has been an integral part of human culture for centuries. From ancient times to the present day, poets have used words to evoke powerful emotions, express deep thoughts, and capture the essence of the human experience. Poetry can be both beautiful and thought-provoking and it has the power to move us in ways that few other forms of expression can.

One of the most magical aspects of poetry is its ability to evoke imagery and create vivid mental pictures in the reader's mind. When we read a poem, we're transported to another world, one that's populated with images that are both familiar and mysterious. A good poet can use language to create landscapes, characters, and emotions that are so real that they seem to jump off the page and into our minds.

Another key feature of poetry is its capacity to express complex emotions and ideas with the economy of language. Poets use carefully chosen words and phrases to convey layers of meaning that can be interpreted in different ways. By reading a poem, we're invited to engage with the writer's perspective and explore the hidden depths of the human experience.

Finally, poetry can be a powerful tool for social and political commentary. Throughout history, poets have used their words to express their views on a wide range of issues, from war and oppression to love and freedom. By writing about these issues in a poetic form, they have been able to reach a wider audience and inspire change in their communities.

In conclusion, poetry is a magical form of expression that has the power to move us in ways that few other forms of writing can. Through vivid imagery, carefully chosen language, and powerful social commentary, poets can transport us to new worlds, evoke complex emotions, and challenge us to think deeply about the world around us. Whether you're a fan of traditional poetry or enjoy exploring more experimental forms, there's no denying the magic that lies within the pages of a great poem.

-Ishaan Loomba
BE Computers B

ENGLISH

Pool of possibilities

Chili Davis once said, "You don't get old being stupid".

I recall the time before being admitted to this college as clearly as day. Infused with anxiety about the unknown, I was celebrating the start of a new educational life with my cousins. My sister asked me how I was feeling and I just replied in a monotone "I'm feeling indifferent". And then she asked me the one question that will always stay special to me - "Aren't you excited to be standing at that point of your life which can shape your whole disposition?"

When we turned adults, we were all just out of our shells, with so much potential in us. There was not only the whole world in front of us to explore but also a mirror showing us what we are and what we can be. With so much at your disposal, countless opportunities awaiting, and many fields to be explored, you can easily unlock a part of yourself you didn't even know existed. Many celebrated personalities in the world attribute their achievements to that one chance they got for being at the right place at the right time.

Vir Das, the acclaimed comedian, credits his splendid comedy career to his one stupid decision of impulsively going on stage and bombing. He says - "Be stupid. For once... Often. What's the worst thing that can happen to you? That somebody calls you stupid? I say be that guy... Own it". When your determination relies on trying something unique in life when you break your own barriers of what defines you, you'll be able to find the hidden ace within you.

Imagine saying "I cannot dance" without trying to dance. Picture saying "I cannot write" without actually trying to write. We're not born to be the masters of everything. But we're born to at least try to be. Endeavoring to do one impossible thing a day could get you into positions you never envisioned. The stroke of luck adding to the scope of your capabilities can birth an endless pool of possibilities for you in life.

Dream beyond the world, then at the minimum you'll soar in the sky.

-Swarangi Kale
BE Mech

ENGLISH

Symphony of a Meal

This morning I closed my door and the wind swept across my face. The breeze felt euphoric as I closed my eyes, and I began to feel surprised. I felt happy for the first time in a long time. This was something that I could reciprocate.

I went out of my door and was left in complete awe as I saw a poor boy crying outside my door for help.

I ran to the kitchen to get him some food but, he disappeared and I was frightened. I shut the door and to my surprise, I saw the little boy inside my room. I acclaimed "How did you get in? ". To which he replied, "I am hungry; give me food!". I gave whatever little was in my hand and sat in the car to drop him home.

He said that he had no home but shelter which had guided him throughout; I prayed and got back to my car; I found a little pendant that had his smiling face I did not return the pendant and kept it with me throughout.

Years have passed, and I still find the little boy smiling at me. I got anxious one day as a tall, dark, handsome man came my way. I asked him to get aside, but he smiled and thanked me for that meal. That day I promised myself, today, that there is no greater joy than giving a meal to the lay.

**-Ruchita
SE ECS**

What you sow, decides your fate...

After years of struggle and interactions with the world, I believe the control actions and expected results seem to get clearer, better, and more fascinating as new things and adventures are taken up. Not that I am good in my area or expertise, but I believe the fact that deep thoughts, wise decisions, correct and truthfulness in dealing and humbleness, gratitude is all it takes for the overall success of an individual. My journey is just the beginning, though I can see beautiful achievements in my work, I am now able to dream and see 360-degree development although I keep myself in a conscious and subconscious state of mind. I take pride to tell you, friends, that those who love the ecosystems, evolve as true people by investing time for others as well as for themselves. My journey has just begun and I hope you will join me in this beautiful dream of creativity, colors, and happiness. Trust, hope, and being respected are some of the ingredients in my cup

-Prof. M V B Rao

ENGLISH

To my CFR mates...

Aah, and here we are. The point where a sweet three-year tale ends. I dedicate this writing to all my dear CFR teammates. This team has been special to me. It's been just weeks after the competition and I already feel empty. The realization of everything not being the same again and missing those days scares me. The unproductive night outs, welding burns, resin eyes, and enormous rear wings. Yes, we are definitely meeting and spending time together for a few months more, however not in the same way, I may guess. I remember the way I met each one of you. I'll always remember the day one of my super seniors visited my class and explained to us about the team. My college life took a turn on that day. Those volunteering periods, daily tasks, schedules, senior memberships, and post responsibilities will never leave my heart.

Thanking all my seniors and super seniors who found time for the team during their masters' studies and work. The only regret is that we couldn't work much together, due to the pandemic. Speaking of which, to the people of my department of Vehicle Dynamics, the daily meeting from 12 noon to 12, midnight during the lockdowns is unforgettable. I would also like to thank the founder members of @teamcfr for starting this wonderful gem. Hats off to all the technical competitions, Formula Bharat in my case, and competitions like SAE Baja, E-yantra, DD Robocon, SAE Aero Design, AUVSI SUAS, etc. for promoting engineering students to think out of the box. Good luck to all the corresponding teams of the college, Team Abadha, Project Cell, Robocon, Vayushastra, Mavericks, etc.

I'm not sure when they ask me "Do you remember your college days?" I would remember the class, the lectures, and the corridors, but I'm remembering the team, the team room, my teammates, and our love, our car.

All my best wishes to the team, Congratulations to the Third Years, and good luck to the Second Years. Keep the pace ongoing.

#RattleRumbleRoar

-Varun Sebastian

ENGLISH

Add a little Four by four

Rising letters, lead to light
Next second in the game, nothing feels
right

Maybe it's the hope that follows
Finally comes down, to four by four.

Ringing the bells, turning off the lights
Sleepless nights, endless goodnights

Maybe it's the rope that follows,
Which finally ends the sixes by fours

Burning down all those bridges
Climbing all the scary-looking ridges
Maybe it's the spark that follows
Without a medium does that transmit

Mellow tunes, hollow bodies
Mirage that flows looking like goodies
Maybe it's the smoke that follows
But that's all it could end off
with.

-Yashas. J
BE Mech

Wild ones are fragile too,
My heart was of glass,
When it shattered,
The pieces left scars on my soul.

-Malaika Monteiro
[@ink.causenotallbleedred](https://ink.causenotallbleedred)

I am the sea and also the rain. A rain, that comes home after it has felt the softness of the clouds. After it has sailed over the mountains and under the moon after it felt thunder at its core and had lightning pass through it. The rain that's not broken yet, a rain that collects stories, drop by drop, and then goes back home to the sea and lets it rain.

The stories, the feelings, the thunder, and the sweetness fall into the sea and become one with the salt. It's not just a 'sea' it's more than that. It's a sea that travelled over the world, basking in the sun and dancing in the wind. The sea is alive and it remembers and it rains over us. That water that knows the sun, the wind, the cold, the sweetness, the softness, the darkness, and life, so we may remember them too. It's not 'just' rain, it's the love and life of the sea. It's not 'just' a story, it's my love and my history.

-Malaika Monteiro
[@ink.causenotallbleedred](https://ink.causenotallbleedred)

ENGLISH

Solitude is not so hushed,
Rather it's so clamoured.

Solitude isn't only about placidity,
It's all about confrontation with one's
own.

Solitude isn't just segregation,
Rather it's just introspection.
Solitude is the point in time,
When "you" converges with "yourself".

-Anonymous

I am a little turtle,
I crawl so slowly.

I carry my house wherever I go, When I
get tired, I put in my head my legs and
my tail and I go to bed.

-Anonymous

Shallow whispers weaving a tale.
With relief, I breathe.

Casting a timeless smile blows the
gentle breeze.
Caressing my face,
The pleasant tickles of hair.
In stillness, I stand.

My heart sprints into the pristine arms
of nature.

Immersed in introspection, a jovial
mood.

Weaving romance of silence &
solitude.

-Anonymous

If there is a place where love gathers,
Old souls loved and lost,

If there is a place where pain ends
And memory doesn't ache
This place is my heart.
For, it continues to beat,
As if it never broke

It remembers not the paths I've
walked,

But the rain and sun that fell on it
The turtles swimming by my house,

Call out to him as they pass by.
They twirl around his feet,

As their homes surface above their
native land

Asking him, 'Why won't you join us?'
And 'Is this the blue you prefer to ours?'
They splash and chorus,
more beguiling than sirens,
But my father says,

ENGLISH

I
a weightless helium balloon 'No',
A water-lily white against the
turquoise waters blue,
The roots and green veins of life,
Like links of hands holding tight.
An "I don't regret this 'No'."
The turtles don't know what I do,
A leatherback hardened by Icarus's
sun,
Which would carry any burden,
curled under a
tiled ceiling, the common man in a
cubicle.
A world in a shell, the insides painted
like Van Gogh's starry night,
the yellow of a childhood viewed from
a labourer's eye:
('Two Annas to live through today
and four for my brother's schoolbag
who I pray never feels
the coarseness of a sack through a
torn shirt.')
Need to be scrubbed off his hands,
They have all marks from car grease
to baby teeth.
The ocean worries as swirls of
poverty get washed into evaded tax.
The question is not if he ingested the
paint himself,
The starry night is not valuable yet.
He tells the baby turtles they won't
die,

The yellow of a childhood viewed from
He knows this, and they don't ask why.
He is different from Van Gogh
As every human is from everyone.
He painted something he thought
looked beautiful,
For a home that's him,
And all the people he loved now and
then,
From his parents who marched behind
Gandhi,
To his children who just want to know
him.
He doesn't tell anyone, "I've never lived
for myself"
The proud tan of the Indian man isn't
one of guilt.
He doesn't know how to live for himself,
Unlike the turtles, his home isn't all his.

-Malaika Monteiro
@ink.causenotallbleedred

ਹੋਮੀ ਸਾਹਿਤ्य



हिंदी

अकेला काफी हु

मैं अपनी नज़रो मे ना जाने कितने सपने छुपाए बैठा हु, खुश हुं भीड़ के साथ भी पर अंदर खुद को दोस्त बनाए बैठा हु, मैं अब किसी का हाल, मंज़िल कुछ नहीं पूछता हु, शायद मैं खुद से अपनी जीत हार टिकाए बैठा हु।

इसलिए सोचता हु कि सब बातों के साथ सबको भूल जाऊ, इस क़दर हर किसी से दूर हो जाऊ, किसी को चाह कर भी मेरी याद ना आ जाए, बस इस क़दर मैं ही सबको भूल जाऊ

फिर एक वक्त बाद सब मेरे लिखने को मेरा हुनर बताएंगे, मेरे लिखें हर दर्द की 'आह' को पढ़कर वो 'वाह-२'मचाएंगे

- Om Kodte
TE MECH

एक छोटी सी कहानी

जब गुब्बारे मुफ्त की हवा से फुल जाते हैं तो पहले क्या थे भूल जाते हैं, तो चलो आज कोई यार महोब्बत की बात नहीं सिर्फ जिंदगी के फर्क बताते हैं।

भीगने और गीले होने मे गरीब और नसीब मे होने मे पैसे से अमीर ओर लफ्जों से रईस होने मे गलतियां करने और आदत होने मे सोचने और नजरिए मे मोड़ ओर मंजिल मे भूलने ओर भुला देने में बात करने ओर बाते करने मे नाराज़ होने ओर नफ़रत करने मे बदला लेने ओर बदल जाने मे दूर होने ओर अलग होने मे हार जाने ओर हार मानने मे मज़बूत होने ओर मज़बूर होने मे समझाने ओर समस्या जानने मे फ़ैसला ओर फासला लेने मे अकेलेपन और पागलपन मे टूटने ओर बिखरने मे हँसने ओर खुश रहने मे स्वार्थी ओर सारथी बनने में मन की बात ओर मनमानी करने मे

अखिर मे यहीं बोलूँगा
"गलत है सही है, बस ज़िंदगी यही है"।

- Sahil Khan
SE AI&DS

हिंदी

... वो आया मेरा स्टूडेंट

तुम हो मेरी तकदीर का किरण,

तुम हो एक नया विश्वास,

जितना आगे जाओगे, उतना सम्मान मेरा,

झूठ के सामने मत झुकना, सच का सात हमेशा देना,

जब हम सुनते हैं तुम्हारा नाम, गर्व से कहते हैं..

वो देखो मेरा स्टूडेंट है।

टाइम मिले तो मिलने आना या ईमेल कर देना..

कुछ साल बाद, सब भूल जाएंगे, क्या पता मैं भी पहचान नहीं पाऊ,

मेरे प्यारे विद्यार्थी, माँ पिता और गुरु जन को कभी भी नहीं भुलना

इस धुन में नहीं रहना कि कुछ लाना पड़ेगा या झुकना पड़ेगा,

बस आके एक बार मिल लेना

गर्व से हम कह सके .. देखो वो आया मेरा स्टूडेंट ... वो आया मेरा स्टूडेंट

-Prof. M.V.B.Rao

हिंदी

शक्ति और मानवकर्तव्य

प्राणिमात्रके जीवन अनन्त शक्तिके सागरमें पोषित हो रहे हैं, तथापि अपनी-अपनी योग्यताके अनुसार ही शक्तिका ग्रहण और उपयोग करते हुए वे जीवन, जो रस ले रहे हैं, उससे परितृप्त नहीं होते। वस्तुतः वे प्राणी अज्ञानवश जीवनके मूल उस अनन्त शक्तिस्रोतको समझ नहीं पाते, इसीलिये यथार्थ ज्ञान न होनेतक सदा अतृप्त दशामें भटकते ही रहते हैं। हम सबको ध्यान देकर निरीक्षण करते रहना चाहिये कि शक्तिका किसी भी क्रिया, चेष्टा, भाव एवं विचारके द्वारा दुरुपयोग हो रहा है या सदुपयोग। हर एक मनुष्यको अभिलिषित सफलताके लिये आवश्यक साधन, संयम करना ही होगा। निरर्थक क्रियाओं, चेष्टाओं, अनुचित मनोभावों और बुद्धिगत विचारोंके द्वारा नष्ट होती हुई शक्तिको सार्थक सेवा, सद्भाव एवं सद्शानकी परिवृद्धिके लिये सतत सावधान होकर ध्यानयोगसे निरुद्ध रखना होगा। शक्तिके सागरमें रहते हुए भी प्राणी अपने क्षेत्रोंमें पात्रताके अनुसार ही शक्तिको ग्रहण कर पाते हैं और क्षेत्रोंकी पात्रता उनके समुचित क्रियाशील होनेसे ही बढ़ती है। इसीलिये केवल उन्हीं कर्मोंको किया जाय, उन्हीं सद्भावों एवं सद्गुणोंको अपनाया जाय, जिनसे शारीरिक, मानसिक और बौद्धिक योग्यताकी अधिकाधिक वृद्धि हो, जिससे कि प्रत्येक क्षेत्र अपनी पात्रतामें विशाल शक्ति ग्रहण कर सके। प्रायः लोग अपनी क्षुद्र प्रकृतिके स्वभाववश क्षुद्र सुख भोगकी कामनाओं वासनाओं एवं क्षुद्र भावनाओंमें शक्ति, समयका दुरुपयोग करते रहते हैं, इसी क्षुद्र प्रकृतिकी सीमासे उच्च प्रकृतिमें उठ जाना ही मानवजीवनका मुख्य कर्तव्य है। कोई भी आजके अपने कर्तव्यको पूरा कर लेनेपर ही कलके कामको पूरा करनेके योग्य शक्तिसे सम्पन्न हो सकता है। जो कुछ आज हम कर सके हैं, वही हमारा आजका कर्तव्य है। अपने कर्तव्यको पूरा न करना ही शक्ति तथा समय (जीवन) का दुरुपयोग करना है। प्रायः मनुष्य अपने सम्मुख उपस्थित बहुत छोटे-छोटे कामको भी आलस्य एवं प्रमादवश टालता ही रहता है- जिस समय करना चाहिये उस समय नहीं करता। शक्तिका दुरुपयोग ही

उसका अनादर है और शक्तिका सदुपयोग ही उसका आदर है। शक्तिका आदर डी करनेवाला सदा शक्तिकी महती कृपाका अनुभव करेगा स और अनादर करनेवाला सदा अपने भाग्यको ही कोसता मी रहेगा अतः बुद्धिमान पुरुषोंका कर्तव्य है कि इन्हें आदर करें, अनादर नहीं।

शक्तिद्वारा उन्नतिकी युक्ति आप अपनी प्राप्त शक्तिसे ही शक्तिकी अधिकाधिक ये वृद्धि कर सकते हैं। जितनी ही अधिक आपमें पाचनशक्ति के प्रबल रहती है, उतनी ही अधिकतासे आप पौष्टिक पदार्थोंको खाकर शक्तिलाभ करते हैं। इसी प्रकार प्रत्येक म क्षेत्रमें जितनी ही ग्रहणशक्ति प्रबल होगी, उतना ही आप त उन-उन क्षेत्रोंद्वारा शक्तिसम्पन्न होते जायेंगे। शुद्ध सात्त्विक ई आहार और विषय संयमसे शारीरिक उन्नति होती है। के सद्व्यवहार एवं सद्गुणविकाससे मानसिक उन्नति होती है,। सन्त सद्गुरु-समागमके द्वारा प्राप्त ज्ञानसे बौद्धिक उन्नति में होती है और निष्काम प्रेम एवं

सत्यस्वरूपके ध्यानसे की आत्मोन्नति होती है। आपको सर्वप्रथम सन्तोंके सत्संगकी है। सर्वोपरि आवश्यकता है, जिससे कि आप बुद्धिमत्ताकी चों दृष्टि प्राप्त करें, तदनन्तर आप आत्मसंयमकी साधना धारण करें। बुद्धिमत्तापूर्वक आत्मसंयमसे ही शक्तिसम्पन्न होकर कि आनन्द और शान्तिके परमधाममें प्रवेश किया जा सकता है। आप अपनी शक्तिसे संसारपर नियन्त्रण करनेका दुस्साहस न कीजिये, वरन् अपनेपर नियन्त्रण कीजिये। आप अपने शक्तिसामर्थ्यसे दूसरेकी इच्छाओंके दमन करने के फेरमें न रहिये, वरन् अपनी इच्छाओंका दमन कीजिये। का देह और इन्द्रियोंके द्वारा

हंडी

आवश्यक कर्तव्य क्रियाओंके अतिरिक्त किसी भी प्रकारकी निरर्थक क्रियाओं अथवा चेष्टाओंमें शक्ति और समयका दुरुपयोग न कीजिये। मनको निरन्तर पवित्र भावपूर्वक किसी-न-किसी शुभ न कर्ममें लगाते रहिये, ताकि निरर्थक संकल्पों विकल्पोंगे। व्यर्थक भावों और विचारोंमें शक्तिका दुरुपयोग न हो। बुद्धिमानी तो यही है कि या तो काम कीजिये और जब काम न हो तब विश्राम कीजिये या फिर राम-राम कीजिये। राम-राम करनेका आशय यही है कि परमात्मा के विषयमें जैसी आपकी मान्यता र हो, उसी नामरूपमें उनका प्रेमपूर्वक ध्यान कीजिये। आप जिस समय भी कार्यसे अवकाश पाइये, उसी क्षणसे परमात्माका पवित्र स्मरण, चिन्तन करने लगिये। आत्मकल्याणार्थ साधनाके लिये, भविष्यकी आशाएँ रुके रहकर भयंकर भूल न कीजिये। बल्कि जिस समय यह याद आ जाय कि हम कुछ भजन नहीं करते, उसी समय तुरंत

जो कुछ भी हो सके, करने लग जाइये। आपके लिये वही तो एक समय है जब कर्तव्य-कर्म याद आता है, यदि उस समयको टालते हो तो याद रखो! सम्भव है आपकी कभी समय न मिले, अतः बिना विलम्ब यहींपर अपनी शक्तिका सदुपयोग कीजिये। आप तभी अपनी उन्नति समझिये, जब कर्तव्यकर्मोंमें कहीं भी आलस्य, प्रमादका प्रवेश न होने पाये। किसी भी स्तरमें दुर्भावकी दुर्गन्ध शेष न रह जाय और लक्ष्य-पथ कहीं भी तमसाच्छन्न न होकर ज्ञानप्रकाशमें विवेकदृष्टिद्वारा दीखता चला जाय। प्रत्येक क्षेत्रमें शक्तिकी प्राप्ति एवं निर्बलताका अभाव ही तो उन्नतिका अर्थ है, जबकि भयकी जगह निर्भय होकर आप प्रत्येक कठिनाइयोंको परास्त करें और अपने परम लक्ष्यकी और बढ़ते ही चले जायें। जैसे-जैसे आप अपनी निम्न प्रकृतिसे सांसारिक भोग-वासनाओं, कामनाओंसे ऊपर उठेंगे, उसी क्रमसे संकीर्णताके संकटसे मुक्त होते जायेंगे, भेदभाव मिटता

जायगा, ऐश्वर्य-प्रताप प्रबल होता जायगा, आपकी आरोहण गति निरापद एवं सरल होती जायगी, दुनियाके ऊँचे- नीचे स्थान उसी तरह दीखेंगे, जिस प्रकार गिरिशिखरसे एक विशाल नगरका दृश्य दृष्टिगोचर होता है। ऊँचाई- निचाईका भाव समतामें बदल जायगा और आपकी दृष्टि आगे दीखनेवाली सभी प्रकारकी सीमाओंको तोड़ती हुई के (असीममें विलीन होनेके लिये) बढ़ती जायगी। इसी वह प्रकार सभी ओरसे शक्तिके सदुपयोगद्वारा आप शक्तिसम्पन्न जय होकर महान् पदको प्राप्त होंगे। ये जब आप वाणीद्वारा प्रवाहित शक्तिका निरोध करेंगे, तब दि आपमें मनन करनेके लिये वही शक्ति मनोबलरूपमें बदल को जायगी और मननशक्तिका जब बुद्धिमें निरोध करेंगे, तब ज्ञान, नी विवेक अनेक गुना बढ़ जायेंगे। इसी प्रकार जब

बुद्धिका निरोध, अहमित चेतनामें करेंगे, तब अहंकी व्याप्ति असीमकी ओर बढ़ में चलेगी और अहमिति भावका निरोध जब समष्टि शान्तात्मामें नी होगा, तब पूर्णनिन्दमय परम निर्वाण पदकी सिद्धि होगी।
सर्वशक्तिमयो ह्यात्मा यद्यथा भावयत्यलम् । तत्था पश्यति तदा स्वसङ्कल्पविजृम्भितम् ॥
आत्मा सर्वशक्तियोंसे युक्त है, वह जिस शक्तिकी का जहाँ भावना करता है, वहींपर उसे अपने संकल्पद्वारा ह प्रकट देखता है।

मरीठी साहित्य



जीराठी

परीक्षेत विजेते झालात !

तारेवरच्या कसरतीत ह्या विचारविनिमयाचा अंत झाला
परीक्षेत तुम्ही या विजेते झालात !
रोजच्या जीवनाला एक यशाचा पूर्णविराम आला
परीक्षेत तुम्ही या पडता सरता लढता लढता विजेते झालात !
चालता बोलता खेळता खेळता अचानक तुम्ही परीक्षेत आलात
सगळ्यांसोबत मिळून अडचणींची शिखरे चढत गेलात
मार्कांच्या गुणवत्तेत नविन उंची गाठल्या
परीक्षेत तुम्ही या विजेते झालात!

- भूषण साळुंके
अंतिम वर्ष,
यंत्र अभियांत्रिकी

अतिविचारांचा कृष्णविवर

विचारांच्या खोल दरीत जेव्हा मी उत्तरलो तेव्हा कित्येक गोष्टीचा उलगढा मला झाला. शेवटी एक गोष्ट मला समजली कि या दरीला अंत नाही. ही विचारांची केवळ पोकळी आहे, मोहाजाल आहे ज्यात अति वैचारिकतेने आपण गूमशुधा झालो. ब्लॅक होल चा CONCEPT स्टीफन होकिंग्स यांना यावरून तर समजला नसेल याची शंका यायला लागली. ज्यात काही नाही पण आपण वाहून जात आहोत.

सत्यात जगणाऱ्या कर्तृत्वान व्यक्तीला या अशा ब्लॅक होलच वावडं कधीच नसत. कारण त्यांचं कर्तृत्वावर विश्वास असतो फिलॉसॉफी वर नाही. ते वर्तमानात जगत असतात.

- मोनिश भलेराव
तृतीय वर्ष,
यंत्र अभियांत्रिकी

जीराठी

मैत्री

मैत्री एक सोपी व्याख्या आहे, रोज आठवण यावी असं काही नाही, रोज भेट क्हावी असं काही नाही, एवढंच कशाला रोज बोलणं क्हावं असंही काहीच नाही; पण मी तुला विसरणार नाही ही झाली खात्री आणि तुला याची जाणीव असणं ही झाली मैत्री. शेवटी काय हो भेटी नाही झाल्या तरी गाठी बसणं महत्त्वाचं, ज्यांनी हे जाणलं त्यांनी माणसातलं माणूसपण जाणले....

अशा सगळ्या मित्रांना माझ्या शुभेच्छा. ही नाती टिकवा आणि आयुष्याचा आनंद घ्या.

- शौनक ऐताल
तृतीय वर्ष,
यंत्र अभियांत्रिकी

वेळ

वेळ हा फुकट आहे.
पण अमुल्य आहे.
तो विकत नाही घेता येत.
पण मिळवता येतो.
तो जपून नाही ठेवता येत.
घालवता येतो.
साठवता नाही येत.
पण जगता येतो.
एकदा जर गमावला तर
पुन्हा नाही मिळवता येत.
प्रत्येक क्षण जगा .
आनंदाने जगा...

- केदार पवार
अंतिम वर्ष,
यंत्र अभियांत्रिकी

जीराठी

आयुष्याचा प्रवास

फारच सुंदर

कधी निरामय..तर कधी घनघोर

कधी चंचल...तर कधी अचल

अनुभवांचं मोठाले गाठोडं

अगदी आजीच्या बटव्या सारखं

निरनिराळ्या छटा विखुरणारं

काळ्यानिळ्या.. रंगीबेरंगी..

तवर कधी...सटीक श्वेत

भरभर प्रश्नचिन्ह

आणि बोराएवढी उत्तरं

तरीही सुरेल..सुगम

लयीत चालणारं

कधी मारवा..

वर कधी मालकंस छेडणारं

- मुग्धा झोपे

द्वितीय वर्ष,

अणु-विद्युत आणि संगणक शास्त्र

उत्पादन बँचला आशीर्वाद

प्रोडक्शन ची बँच या वर्षी शेवटची बँच असुन मला खात्री आहे की तुम्ही इतर लोकांपेक्षा काही
कमी नाही.... तुम्ही जबरदस्त, बिंधास्त आणि मस्त इंजिनियर्स आहात...

तुमची इंटर्नशिप सहा महीन्यांची ही खरोखर एक मोठ प्राप्ती आहे तुमच्या भविष्याच्या नवीन
सुरूवातीसाठी माझे कोटी कोटी आशीर्वाद..

- मि. वी. भ. राव

सहाय्यक प्राध्यापक,

यंत्र अभियांत्रिकी व उत्पादन अभियांत्रिकी

मराठी

मातृभाषा मराठी भाषा

मम्मी म्हणा मदर म्हणा
आई शब्दात जीव आहे .
पिता म्हणा पप्पा म्हणा,
बाबा शब्दात जाणीव आहे
सिस्टर म्हणा “
ताई शब्दात मान आहे
ब्रो म्हणा भाई म्हणा
दादा शब्दात वचक आहे....
फ्रेंड म्हणा दोस्त म्हणा
मित्रा शब्दात शान आहे
एन्ड म्हणा फिनिश म्हणा
अंत शब्दात खंत आहे
दिवार म्हणा वॉल म्हणा
भिंत शब्द जिवंत आहे....
रिलेशन म्हणा रिश्ता म्हणा
नातं शब्दात गोडवा आहे
एनिमी म्हणा दुश्मन म्हणा
वैर शब्द जास्त कडवा आहे..
हाय म्हणा हॅलो म्हणा,
हात जोडणे संस्कार आहे
सर म्हणा मॅडम म्हणा
शब्दात अर्थ आहे
ग्रॅंड पा ग्रॅंड मा शब्दात
काही मजा नाही,
आजोबा आणि आजी
सारखे सुंदर नाते जगात नाही..
गोष्टी सर्व सारख्या
पण फरक फार अनमोल आहे
अतेज शब्दात ज्ञानाचे भांडार आहे...
म्हणुन इंग्रजी पेक्षा आपल्या मराठीत आदर जास्त आहे...

- एलरॉय डीमोन्टे
तृतीय वर्ष,
यंत्र अभियांत्रिकी

JRATI

असं का होतं?

रोजच्या जीवनात स्वतःला हरपून बसलो
होतो, विसरूनच गेलो होतो नक्की कोण आहे मी?

मलाच नव्हते माहिती कसा आहे मी? एका
वळणावर असे वाटले भरपूर झालं सगळं, आता
थोडं जगलं पाहिजे. गरज भासू लागली कोणीतरी
जवळ असण्याची. पण कोणी नव्हते, खूप खंत
होती या गोष्टीची.

अचानक एक दिवस ती व्यक्ती मला भेटली
जिने मला भाग पाडले, माझ्यातल्या मला भेटायला
आणि मग मला कळले, आपण कधीच असे
नव्हतो. ती व्यक्ती खास होती कारण तिच्यामुळे
माझ्यातल्या मला मी सापडलो. बन्याचशा गोष्टी
होत्या ज्या मला बदलायच्या होत्या पण मला
बदलता येत नव्हत्या, या व्यक्तीच्या येण्याने माझ्या
आयुष्यात ते बदल मला करता आले कारण, ती
व्यक्ती खास होती. वेगळी होती ती, ती जशी होती
तशी कधी कोणी मला सापडली नाही. काहीतरी
खास होतं तिच्यात, मला ती माझी वाटायची पण
मला माहित होतं की त्या व्यक्तीसाठी मी कोणीच
नाही आहे.

मनातल्या गोष्टी सांगून टाकाव्याशा वाटायच्या
पण एक भीती होती जर ती व्यक्ती आपल्या
आयुष्यातून निघून गेली तर आपण तिला तर
गमावून बसूच, पण माझ्यातला मी जो मला
सापडला आहे तोही मी गमावून बसेन. असं का
होतं की जे आपल्या आयुष्यात सगळ्यात जास्त
महत्त्वाचे वाटतात त्यांच्या आयुष्यात आपण
कधीच महत्त्वाचे नसतो. मग विचार येतो सोड हे
सगळं कुठे या प्रश्नांची उत्तरं शोधतो. शेवटी जीव
एकटा एकाकी!

प्रयत्न तूजला काही

अपयश चालत नेई
एका घनदाट प्रश्नांचा जंगलात
प्रथमच करणाऱ्यास रडू येई
अर्थ काढी ह्या अमगंलात

दुःखद प्रवास एकूणच अवघड
काचेतून चालत मार्गाच्या शोधात
मागे न पाहता पूढे चालण्याची धडपड
सरळ मार्ग चालत असनूही विविध अडचणी

प्रयत्नांची तयारी असताना
यश अपयश यांचे काय मोल?
घेतला हातात विडा
इतरांना ऐकवा मोलाचे बोल

फळाची अपेक्षा न करता
प्रयत्न करत राहणे हेच आपले ध्येय
पण अपयश आल्यावर परत
उभे राहण्याची धमक असणे गरजेच

- यशस जोगळेकर
अंतिम वर्ष,
यंत्र अभियांत्रिकी

- ओम कोडते
तृतीय वर्ष
यंत्र अभियांत्रिकी

TECHNICAL SECTION



TECHNICAL

6G Network

What is 6G?

This is the next generation of wireless communications, which promises even faster speeds and efficiency compared with 5G, the current iteration.

When will 6G be available?

If history is to be a reference, new generations of wireless technology emerge with every new decade, meaning 6G would become available in the early 2030s. This is a widely share industry expectation.

The US has historically introduced new wireless technology iterations, with the third generation released in 2002, the fourth in 2010, and 5G in 2018. The second and first generations were in the 1980s and early 1990s, respectively, with the so-called "zero G" existing before that.

How fast will 6G be, compared with 5G?

The current technology, 5G, is already fast. However, 6G allows movies with 8K video resolution to be downloaded at speeds that are up to 500 times faster than what 5G offers.

Also, 6G is expected to enhance the capability of today's 5G networks by 100 times.

Latency, the delay between sending and receiving information, will be reduced by a factor of 10 to 0.1 milliseconds while the energy efficiency of networks will drop by a factor of 100.

-Aarush Wasnik

Attention! Attention!

It's a new World Record! Yes, an international group of researchers from the Technical University of Denmark (DTU) and the Chalmers University of Technology in Gothenburg, Sweden have achieved a dizzying data transmission speed and are the first in the world to transmit more than 1 petabit per second (Pbit/s) using only a single laser and a single optical chip (where 1 petabit is equivalent to 1 million gigabits).

In the experiment, the researchers succeeded in transmitting 1.8 petabits per second. This world record is set in the domain of Communication Systems, and the technique used for achieving this feat is Modulation, which refers to the packing of the data along with the light by making use of the wave properties of the light such as:

Amplitude: Determines the height/strength of the waves.

Phase: Determines the 'rhythm' of the waves where it is possible to make a shift so that a wave arrives either a little earlier or a little later than expected.

TECHNICAL

Polarization: Determines the directions in which the waves spread.

Signals can be generated by changing these properties. Modulating these light waves is done digitally so that the signals can be translated into either ones or zeros, thus utilized as data signals.

The speciality of the chip is that it produces a frequency comb with ideal characteristics for fiber-optical communications. It has high optical power and covers a broad bandwidth within the spectral region which is advanced optical communication. The light is emitted by only one optical source, which is a custom-designed optical chip, which can use the light from a single infrared laser to create a rainbow of a spectrum of many colours i.e. many frequencies. Thus, the one frequency of a single laser can be multiplied into hundreds of frequencies (colours) in a single chip. All the colours are fixed at a specific frequency distance from each other, similar to teeth on a comb, which is also called a frequency comb. Each colour can be isolated and used to imprint data. The frequencies can then be reassembled and sent over an optical fiber, thus transmitting data.

Talking about the benefits of this research is that the solution of these researchers bodes well for the future power consumption of the Internet. Now, 1.8 Pbit/s corresponds to twice the total global Internet Traffic i.e. this is the amount of data transmitted globally per second which causes traffic over the internet. So, this new solution provides a potential for replacing the other 100s of existing lasers at the Internet hubs and data centers, which consume lots of power and generate heat, whereas, these lasers will consume less power to transmit more amount of data thus reducing the traffic and generate lesser heat, therefore leading to leave a considerable amount of smaller climatic footprint.

In addition, the researchers created a computational model to examine theoretically the fundamental potential for data transmission with a single chip identical to the one used in the experiment. The calculations showed the enormous potential for scaling up the solution.

To this, Professor Leif Katsuo Oxenlowe, Head of the Centre of Excellence for Silicon Photonics for Optical Communications (SPOC) at DTU, says:

"Our calculations show that – with the single chip made by the Chalmers University of Technology, and a single laser – we will be able to transmit up to 100 Pbit/s. The reason for this is that our solution is scalable – both in terms of creating many frequencies and in terms of splitting frequency comb into many spatial copies and then optically amplifying them, and using them as parallel sources with which we can transmit data. Although the comb copies must be amplified, we do not lose the quality of the comb, which we utilize for spectrally efficient data transmission."

Sources: www.dtu.dk

-Jinish Varaiya

TECHNICAL

Latest Technological Advancements Artificial Mechanical Heart

A replacement for the human heart is one of the greatest long-sought inventions in the history of engineering and medicine. Very few models of the artificial human heart have been successful in transplants, even so haven't been able to function throughout a lifetime. The benefit is obvious and total replacement of the human heart to lower the requirement for transplant of heart and/or provide as a tool between transplants to perform as a life support during serious altercations in the body. Our capstone project aims to bridge the gap between the long queue of patients waiting for a heart transplant and the limited hearts available for a heart transplant. This project will replicate the functions of the human heart on a hemodynamic level so as to understand the various defects and problems that occur while designing and simulating its function. Assessing the problems and gaining an optimum solution for the problems faced will be the obvious goal of the project. Solving the need of the hour, our project aims to eliminate a few valves whilst adding a new space for pneumatic pressure to mimic the functions of the human heart. Furthermore, we plan on 3D printing the heart that is uniquely designed to carry out further experimentation.

**-Kaviraj Easwaran, Yash Lotlikar,
Rachael Dhalwani, Joel Sam**

TECHNICAL

Know your safety.

Safety is an indispensable part of human lives that cannot be taken for granted. It indicates the state of being protected from harm, danger, or injury. Safety measures are set in a region to prevent accidents, illnesses, or injuries from occurring in different environments such as workplaces, homes, roads, and Colleges. The importance of safety cannot be overemphasized, and everyone should play a role in ensuring that we all stay safe.

India reported 1,109 deaths and more than 4,000 injuries in registered factories, 1.6 million fires and 27,027 fire-related deaths. Safety-related deaths in India were 2X times more than in China. Recently a Fire broke out on the 14th floor of Jivesh Terraces at the Bandstand. The fire started from one of the Airconditioning units in the apartment.

The majority of such accidents are caused by Human error which includes negligence, lack of awareness, or improper handling of flammable materials. Fire due to Electrical distribution was the primary cause of Residential, Religious & industrial fires. This is caused due Short circuits from defective and worn insulation, Aging electrical systems in older buildings. etc.

To Prevent such accidents we need to Install GFCIs, AFCIs, and Circuit Breakers in our Electrical systems. We should also check the Fire Standards and Fire audits of the region from reputed organisations ex. FSAI. This will help us to take preventive measures in the future Accidents.

"Prevention is Better than Cure" - Mahatma Gandhi

-Harshwardhan Trivedi

TECHNICAL

Software development

It has been known that any website today needs to undergo a whole lot of creative and making process. This process is software development. From sketching rough ideas about the website to finalizing the nitty-gritty of the website are an all inclusive characteristics of the software development procedure. The crux of software development is that the team of engineers behind the software development need to work keep a group oriented attitude supported with a knowledge driven focus. The main aim is to successfully provide a durable website which is intelligent enough to cater the user requirements. So, the procedure to mend a website backed with a core software background is given as follows. Firstly, the amount of work is distributed amongst the team members with the required skills. Skills include backend, frontend, content, testing like activities. The frontend consists of UI/UX based fine interaction amongst the client and the frontend developer. This discussion includes the appearance requirements, user category like topics in the client-developer meetings. The use of frontend web technologies like HTML, CSS, JAVASCRIPT along with user interface and user experience techniques is used for developing the chassis of website. The backend web technologies like JAVA Spring, PHP, or any other functional scripting language of choice are made use of by the virtue of scrum meeting discussions. The scrum meeting discussions are based amongst the backend developers for the sake of configuring the process of development as a whole. The development process could follow a waterfall, spiral, like software development models where the lines of code, working days like factors could be estimated. The scrum meetings are also conducted for the interpretation of progress individually by the engineers of the team. The content for the website is minted by content writers or content specialist depending upon the crowd and purpose of the website. Specific writing tools are enabled for this purpose by the content developer and the content is revised time and again. Since a website is everlasting and does not wear and tear out, being immortal it has to undergo the accurate and efficient testing process for this purpose. The testing involves procedures like white, black box testing, alpha testing and so. The manual testing is another old method of testing where the website is tested for a set of dummy information or data and the deployment of the software is tested. The networking , connectivity like factors of the website is also checked. The browsing amongst different pages of website is also checked, whether there is successfully transmission of data entered by the user from one website to another web page. All these facts are inspected for the smooth running of the website. The features like search engine optimization on-page and off-page are also carried out once the website is published and is ripened enough. The updating of the website with new features, and search mechanisms is done according to the time lapse as decided by the team members of the website makers. The web software is updated based on the feedback of the customers of the website. The team of developers keep a keen eye on advices and feedback and convert it into a positive result on the website. The team represents the website as a new version headed by the version number. The newer the version the better the service offered by the web app. The web app in the form of android application is the moving fashion these days. The vibrancy in the website is the main reason to attract new customers hence marketing about the website is the need for todays time, tools for generating organic traffic to the website are the essence for gaining new customers to the website.

TECHNICAL

Engine Downsizing, smaller but better.

Internal combustion engine which is considered one of the greatest mechanical engineering inventions finds its application mainly to the automobile and aviation industry. The bigger the engine the better was, the ideology of many in the past. But today the story is different, engines are getting smaller and better at the same time.

Engine downsizing refers to the reduction in overall engine capacity without any reduction in the output, the main objective for engine downsizing is to keep up with the emission norms, increased efficiency, and cost cutting. Different methods are adopted for engine downsizing which mainly includes hybridization of powertrain, combustion chamber design, energy recovery systems, different charge feeding devices, and much more.

Hybridization of the traditional ICE is one of the best methods to achieve greater performance and improved efficiency. Hybridization and energy recovery work together to achieve engine downsizing. The greatest example of engine downsizing is the current 1.6L V6 turbo hybrid engines used in Formula 1 which can produce up to 1000 BHP, previously the engines used 2.5L V8 for the same power output or even less. The modern Formula 1 engine mainly depends on the electro-compounding technique which they refer to as MGU-H (Motor Generator Unit- Heat) it is a type of energy recovery system, in order to achieve the maximum volumetric efficiency possible a turbocharger is used. The waste exhaust gases from the engine are used as the power source for the turbocharger, but what makes the Formula 1 turbocharger different is the use of an electric generator/motor (Electric Unit). The electric unit of the turbocharger harvests electrical energy at a higher engine RPM and spools the turbocharger at a lower engine RPM to eliminate turbo lag. The next thing the Formula 1 turbo hybrid engines use is MGU-K (Motor Generator Unit- Kinetic), which uses a technology similar to what we see in most strong hybrid vehicles. An electrical unit similar to MGU-H is placed at the turbocharger but this unit is much greater in size and capacity and harvests maximum of the electrical energy at lower speeds when there is a requirement of higher torque this electrical unit acts as a motor and assists the engine for better acceleration. MGU-K also uses regenerative braking technology along with the system mentioned before, the interesting fact about Formula 1 cars is they don't have a dedicated reverse gear instead the electrical unit of the regenerative brakes is used to spin the wheels directly in the reverse direction.

The design of the combustion chamber also plays an important role in engine downsizing. The Formula 1 turbo hybrid engine uses a pre-combustion chamber, which allows the use of a lean mixture for combustion, pre-combustion chambers create turbulent airflow in the combustion chamber which covers most of the volume in the combustion chamber, this ensures higher efficiency. These engines are also designed with a higher compression ratio which is around 17:1.

Mercedes developed the most powerful 2L 4-cylinder engine for the A45 AMG and CLA 45 AMG cars this engine produces 421 BHP at 6000 RPM and 460 Nm of torque this engine mainly depends on its combustion chamber design and air intake system design which is designed for minimum frictional resistance to air, the engine doesn't use a typical engine liner but instead uses a special nanomaterial coated onto the cylinder wall surface reducing the friction between the piston and the cylinder wall.

Hybridization of Internal Combustion Engines is the need of the time.

INSTITUTE INNOVATION COUNCIL

During the academic year 2022-2023, IIIExCRCE put in a lot of efforts and conducted various seminars, industrial visits, etc to provide quality knowledge to the students. Apart from this, IIIExCRCE also conducted various events, which received an outstanding response from the audience and participants. The details of all seminars, events, etc have been mentioned below.

1) Seminar 1 : Seminar on "Design to Manufacture - A Quick Tour" by Mr. Siddhesh Bhopi was organized on August 24, 2022 whose sole objective was to make everyone understand the process that takes place between the designing and manufacturing of a product and the different types of phases between designing and manufacturing of a product.

2) Seminar 2 : Seminar on "Business Model Canvas" by Mr. Tushar More was organized on October 10, 2022. The objective of the seminar was to make everyone aware about the concept of business model canvas.

3) Synergy : An event named "Zoo-otic" was organized during Synergy on October 21, 2022 which consisted of three rounds. The details have been mentioned further.

Round 1 : The name of this round was "Cup-shup" where participants were given a particular number of cups, which were to be stacked on one another. The cup on the top was coloured and needed to be transferred to the bottom of the column by stacking the cups, one at a time. The fastest 20 participants were being advanced to the second round.

Round 2 : The name of this round was "Ae Raja line par aa ja" where various cardboard fishes with rings attached to them were kept on the ground at a certain distance and the participants were supposed to use the rod having hook attached at the end to pick up the fishes and the top 5 participants to do it faster were being advanced to the final round.

Round 3 : The name of this round was "Wha-Saaap" where finalists played a game of giant snakes and ladders but with a twist where the participants had to answer trivia to move ahead on the board.

4) Industrial Visit : Industrial visit to Central railway Workshop, Matunga was organized by the council on February 16 and 17, 2023 where the students gained knowledge about our Indian Railways and learned about the manufacturing of various parts.

5) Crescendo : An event named "Fortress Fight" was organized during Crescendo on March 9 and 10, 2023 which won us "The Best Organizing Council " award for successfully conducting the event and due to amazing response it received from the audience and participants. In this event the teams participating were given jenga blocks to build a fort like structure and some materials were provided to build a catapult to break the opponent's fort in a given time span.

6) Seminar 3 : Seminar on "Intellectual Property Rights" by Prof. M.V.B. Rao was organized on April 26, 2023 on the occasion of "World Intellectual Property Rights Day". The main objective of this seminar was to make students understand what exactly intellectual property rights are ! and to make them aware about intellectual property rights.

Special Achievement : IIIExCRCE won "The Best Technical Event Award" and "The Chairman Special Award" for the previous events held at our college. Additionally our faculty advisors also received "Excellence Award" and "Faculty Appreciation Award" for their guidance and aid towards our council by IIIE Mumbai Chapter who organized a prize distribution ceremony on January 28, 2023 to congratulate and appreciate the various student sections of IIIE for their exemplary work.

CRMD REPORT

Success depends upon rigorous preparation, irrespective of all the odds against it. After a two-year hiatus caused by COVID -19, Fr. Conceicao Rodrigues College of Engineering has successfully hosted its Flagship event, Conceicao Rodrigues Memorial Debate (CRMD), from 7th to 8th of October, 2022. Everyone was excited and exuberant after the gap of two years. the theme for the debate was - The Indian Agenda- Global Influence & Dominance. CRMD is an intermediate Oxford-style debate competition and has always been praised by people who have witnessed it. Teams from all over India eagerly anticipate bagging the esteemed trophy with their debating intrepidity. The much-anticipated debate had 32 laudable teams from all over the nation, grappling with their words for the first prize of Rs. 30,000, second prize for 15,000 and Rs. 5000 for the best speaker and the best adjudicator.

Teams from Delhi, Pune, Indore & Mumbai competed hard through the league rounds to acquire their positions in the quarter-finals. Not only centring on the strengths and weaknesses of an argument but also providing frank but constructive feedback to each team to help them better, our Judges, who included experts from the field of Communication, Education, and Corporate world, judged every debate with immense grace and eloquence. Weighing every argument with equanimity, and deciding rankings in the house, an Adjudicator plays a vital role. Our Adjudicators consciously noted down all considerable points put forth by the debaters and provided with productive feedback for the same. With astute arguments, the top 8 teams battled their way in quarters, putting forth excellent points. 4 teams emerged victoriously from the war of words and were qualified for the semi-finals.

The panel of Judges for the semi-finals included - Dr. Meera, She Has a diverse experience of many years in training students, she has the expertise to teach both Business Communication and Literature. She has taught at VJTI, Sardar Patel Institute of Technology, Xavier Institute of Engineering, Narsee Monjee Institute of Management Studies (NMIMS), Champlain College (Vermont, USA), Mumbai Campus, Thakur College of Engineering and Technology and Ramnarain Ruia College among others. Her Publications: Has many publications notable among them is a full length book titled Communication Skills. Launched 2 college magazines: ConneXIEon at Xavier Institute of Engineering and Prerana at Mittal college of Arts and science and was chief editor of both. Has presented papers at many International and National level conferences. Has been invited as examiner, speaker, resource person, subject expert at many places. Prof. Sundary, She has been associated with CRMD since 1999 and has served as the coordinator, mentor and judge, till retirement. M.phil in mathematics and B.ed in child psychology, she has served fr agnel for 30 consecutive years from 1991 to 2021. During her tenure, she has served as the HOD of humanities and science department. She has been a part of various selection committees and has worked as the paper setter for prestigious UPSC exam for 3 consecutive years

CRMD REPORT

Dr.Vaishali Ghadyalji,she is working as an Assistant Professor in K.J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai. She possesses around 22 years of teaching experience. She has achieved her Ph. D. degree in English literature and has 06 publications and 05 paper presentations at national and international journals and conferences to her credit. She is an author of three books and her textbook of Communication Skills is quite popular among the First year engineering students and teachers of Mumbai University. She had been a member of the Syllabus Revision Committee for the subject Communication Skills and Business Communication & Ethics appointed by the University of Mumbai for First & third Year Engineering (All Branches). One of her notable achievements include her selection as a Casual Announcer by Akashwani, Mumbai for Vividhbharati- Marathi. Dr.Vrushali Deole, she has been working as a Lecturer at KJ Somaiya since 2005. Her PhD area is based on Indian Mythology & Gender Studies. Dr. Vrushali has presented 8 International papers in Europe at various international conferences Teaching is her passion and she looks forward to pursuing extensive research in gender diversity.

The teams competed flawlessly in the semi-final rounds, proving their skills for the dialectic dispute, but the finest 2 teams made their way to the finals. Articulating the roots of beliefs and opinions, the 2 teams in the final round showcased their endowment of deploying lucid and logical arguments following the given motion - "THW allows the operation of only those humanitarian and development aid organisations that operate according to the principles of effective altruism." Mr. Niraj Doshi was the chief guest for the final round of CRMD' 22. Mr. Doshi is currently the CEO of Equal Fintech.

He has a banking experience of 20 years, spanning through different Asia-pacific and Middle Eastern regions. He has been associated with global brands such as Citibank and Visa, and has worked thoroughly in the field of retail banking. He has also launched 'Save A Life' Foundation with a team of 40 volunteers - to spread mental health awareness & provide self-help tools as well as counselling services, to anyone in need. Last but not the least, Mr. Niraj Doshi is our very own alumni from the 2002 batch of Computer Engineering. Following were the Judges for the Finals of CRMD' 22 - Dr. Usha Nair, She is a Retired Associate Professor from Humanities and Management Department of VJTI, Mumbai and is Pursuing PhD from SNDT University in Feminist Discourse Analysis of Women Leaders in the IT Sector, India She has taught Communication Skills courses for Undergraduate and Postgraduate Level Students as well as Professional Communication Skills for the MCA students. Ma'am has also Presented papers at national and international conferences on Discourse Analysis Off campus, Dr. Usha Nair also Conducts training programmes in Communication Skills for Faculty of Engineering Colleges and has been a University of Mumbai nominee on Panel for Selection Interviews for Engineering College Teachers. Dr. Meera Bharwani, is a senior faculty of Communication Skills at VJTI. She has taught at VJTI, Sardar Patel Institute of Technology, Xavier Institute of Engineering, Narsee Monjee Institute of Management Studies (NMIMS), Champlain College (Vermont, USA), Mumbai Campus, Thakur College of Engineering and Technology, and Ramnarain Ruia College among others.

CRMD REPORT

Dr. Swati Jha, She is a professor in the Electronics and Telecommunication department in Bharati Vidyapeeth College of Engineering Navi Mumbai. She has been in the teaching profession since the past 20 years and has 10 national and 16 international publications under her belt. She has also received the prestigious "Outstanding Women in Engineering" award during the 5th Venus International Women's Award Ceremony. In every battle there comes a time when both sides consider themselves beaten, then he who continues the attack wins. Side Opposition, Team CMD01 (Fr. Conceicao Rodrigues College of Engineering) emerged triumphant in the prestigious battle of CRMD this year. Offering an arduous debate, Side Proposition, Team CMD24 (Symbiosis Centre for Management Studies) were declared as the runners-up for CRMD'22. Mr.Yash Thorat received the best Speaker award and Mr.Yogeshwar Singh received the best Adjudicator award.

The power of real debate is in the language and intellectual honesty of the debaters, alongside the engagement of spectators. The debates were lively, proposing and countering a plethora of ideologies. Providing a forum for today's youth to engage in various affairs experienced in daily life, CRMD was an indulgent treat for the debaters and the audience alike. Every prosperous event is a result of the commitment to excellence, intelligent planning, and focused effort of everyone planning the event. I would like to extend my sincere gratitude to the organizing committee, the diligent Students' Council who strived to not only organize but made sure the event went smoothly after two years of hiatus .

I would also like to thank our Director Fr. Valerian D'Souza, Principal Dr. S.S. Rathod and all the teacher coordinators for all the love and support we received pre and post the event. I extend, in abundance, my most exuberant appreciation to all the helping hands, who left no stone unturned to make this debate fruitful. Without all of your love, support, and dedication, CRMD 2022 would not have seen the success that it did

Dhruvi Panchal
Editorial Secretary
Students' Council 22-23

CULTURAL REPORT

"Culture is the widening of the mind and of the spirit. It is never a mere amusement; it is a powerful means of understanding and of progress."

This quote is by Jawaharlal Nehru, the first Prime Minister of India, who believed in the importance of culture in shaping society and promoting unity among people. Nehru recognized that dance, music, drama, and other forms of cultural expression have the ability to bring people together and foster a sense of community, and that they are essential to our understanding of the world and our place in it. He saw culture not as a frivolous pastime, but as a powerful force for positive change and human progress.

On August 23, 2022, the first event- Insignia the Student Council was officially installed. The newly elected members of the Students' Council took their oath of office after receiving their appointment letters and remarks from dignitaries. The ceremony came to a close with Anthony Benno, the newly appointed general secretary, giving a vote of appreciation and introducing the vice chairs of the technical and non-technical councils as well as the technical teams for the years 22 and 23.

On August 30, 2022, the second event - Farewell celebration was hosted for our Principal, Dr. Srija Unnikrishnan. Dr. Unnikrishnan has been a vital member of the college for some time, and she has made immeasurable contributions to its expansion and advancement. Various teaching faculty, non-teaching faculty, and college administration spoke. She received an emotional farewell from the staff and students, who also thanked her for her excellent leadership.

The third event, To kick off the first-year induction procedure, the student council provided a synopsis of the numerous cultural and technical fests hosted on our campus. A virtual tour of the campus was offered to them. Each of the several councils—technical and nontechnical—began by presenting themselves and their missions. During the post-lunch session, each of our college's technical teams demonstrated their work to the freshmen.

The fourth event- The degree distribution ceremony for the Batch of 2022 was held on 18th March 2023. The graduates received their degrees and certificates from our chief guest Prof VN Rajashekran Pillai Vice-Chancellor of Somaiya Vidyavihar University and distinguished guests delivered inspiring speeches.

Coming to the Cultural Flagship event, EUPHORIA which was from 28th to 31st of March, 2023 .The theme for Euphoria 2023 is CELESTIA. CELESTIA is THE MAGIC OF THE MOON, the theme explores the mystique and allure of the moon, a celebration of the enchanting qualities of the moon, its connection to nature and the power it holds over our imagination. To prepare the scene for euphoria, The highly anticipated Prom 2023 event brought together students at the basketball court on the evening of March 26th, 2023. The location was turned into a mystical heavenly setting for the evening's theme, "Starry Night," using sparkling decorations and fairy lights. This year, the events in Euphoria were divided in three phases of the moons , Phase 1- Amavasya i.e Day 1 of Euphoria, Phase 2- Ardhachandra i.e Day 2 of Euphoria , Phase 3- Purnima i.e Day 3 of Euphoria.The events were divided according to domains and the events were divided into 6 domains.

Which were Performing Arts, Fine Arts, Literary Arts, Personality, Sports, Submission. The last and final section was the Flagship events for Euphoria 2023. After 3 years, we had the Inter-College Dance Competition 'Paridhan'. The second flagship event, IMPULSE i.e the Inter class Dance Competition. The third one was Glamgala i.e. the renowned inter class Fashion Show. Mr. and Ms. CRCE, an event exclusively for the BE's testing their overall personality, was the final flagship event.

Euphoria was officially inaugurated on the 28th of March. Our dignitaries for the same were Fr. Valerian D'Souza , Fr. Trevor Pereira, the principal Dr.Surendra Singh Rathod , the Dean of Students Affairs D S S Suddhakar and Cultural Staff-Incharge Prof.Garima Tripathi who commenced the event with the lighting of the lamp. The Achievers of Second Year and third Year for the academic year 2021-22 were felicitated by the dignitaries.Numerous events under various domains took place on March 28th and 29th, inside the college's grounds. On March 29th evening, we held Paridhan, a competition where dance teams from several institutions in Mumbai competed to win. The interclass fashion show, GlamGala, was the evening's last event.

The final day of Euphoria i.e. the 31st of March was held at Ravindra Natya Mandir, Prabhadevi. Along with the awe-inspiring Class Dances, the finals of Mr. and Ms. CRCE, this day also marked the Annual day of 2023. The event was honoured by the presence of the dignitaries, Fr.Valerian D'souza, Fr. Trevor Pereira, our principal Dr.Surendra Singh Rathod, the chief guest Ms. Mohini palchowdhury, (Global HR at Quantiphi) and the guest of honour Ms. Shareen Kitterman(Assistant Management Officer, Embassy of the United States of America). The achievers of First year and Final year for the academic year 21-22 were felicitated by the chief guest and guest of honour. Honouring the tradition of Annual Day, our director Fr. Fr.Valerian D'souza, and Fr. Trevor Pereira felicitated the BE all-rounder amongst the boys - Mr. Brycen Fernandes (BE Electronics & Computer Science) and felicitated BE all-rounder amongst the girls - Miss Nicole Dias(BE Computers A) for the year 2022-23 for having excelled in every domain, including both academics and extracurricular activities through their incredible performance. The Students' Council 2021-2022 was then felicitated by Principal Sir with a memento as a token of appreciation for their overwhelming contribution to the college. The Vote of thanks by the Cultural Secretary marked the end of Euphoria 2023, thereby giving the event a perfect ending.

All these events truly witnessed the creativity, the co-ordination and the passion of the students truly making the atmosphere an euphoric one. The enthusiasm of the students and that of the Student's Council in preparing and participating in Euphoria was not diminished. I would like to thank our Director Fr. Valerian D'Souza, our Asst. Director Rev. Fr. Trevor Pereira and our Principal Dr.Surendra Singh Rathod for showing trust in the Students' Council to carry out the cultural year . My deepest appreciation to D S S Suddhakar, the Dean of Student Affairs, my professors in charge – Prof.Garima Tripathi and Prof.Dipali Koshti , and all the teaching and non-teaching staff who assisted me for their constant support and guidance. . Last but not the least, I would like to extend my sincere gratitude to the organizing committee, the diligent Students Council who strived to not only organise but also make it a transcendent experience.

**Samuel Emmatty
Cultural Secretary
Students' Council 22-23**

TECHNICAL REPORT

As Steve Jobs famously said, "Innovation distinguishes between a leader and a follower," and the Students' Council of Fr. Conceicao Rodrigues College of Engineering is undoubtedly a leader in promoting technical innovation. This year we have successfully organized various technical events and festivals throughout the year, providing a platform for students to showcase their technical skills, collaborate with their peers, and gain exposure to the latest advancements in technology. These events have played a vital role in promoting technical education and nurturing innovation amongst the students. By fostering an environment that encourages creativity, we have successfully positioned itself as a leader in technical education.

The first technical event of the year, "Synergy", was conducted on 21st and 22nd October, 2022. Synergy, a two-day event organized by the various technical and non-technical clubs and councils of CRCE was a perfect platform for students to showcase their talents and creativity in various technical fields.

On the first day of Synergy, a range of events were conducted by different clubs of CRCE. ACM organized the Nerf Battle, where students battled with nerf guns in a battle arena. ASME organized the Slytherin Pirates, where students had to form a human chain and perform certain tasks with coordination. Codelabs conducted the Trivia Battle, where students tested their knowledge in various fields. CSI organized Fear-Fair, which was a culmination of various mini games. E-Cell organized Kickin' it, which was a tic tac toe game played with football. GDA organized Unlock this Co., which was a fun-filled game that tested the problem-solving skills of the participants. IEEE conducted Lazer Maze, which was a challenging game of escaping the laser maze. IIIE organized Zoo-otic, which was a union of various rounds leading to the final round of Human Snake and Ladder with a twist. Hawki and GDSC organized the Virtual Pirate CTF, which was a competition to find a hidden treasure. Mozilla organized Gamezilla, which was a gaming competition. TedXCRCE organized the Neon-themed mini-golf, which was a fun-filled game with a neon theme. WIE organized CRCE Transylvania, which was a horror house experience.

On the second day of Synergy, a 12-hour hackathon was organized, where students had to solve problem statements. There were two problem statements under the Web/App Domain. The hackathon was a great opportunity for students to showcase their coding skills and come up with innovative solutions. The event was a huge success, and the best council award for Synergy 2022 was awarded to TedXCRCE. The event brought together students from different backgrounds and provided them with a platform to showcase their talents and learn from each other.

After the successful completion of Synergy, for the very first time, the technical newsletter called "OpenSource" was released in the month of January. The magazine aimed to provide a platform for students to share their technical knowledge, experiences, and research in various fields of engineering. It included articles written by our very own college students from various branches, covering a wide range of topics related to engineering.

The annual technical festival of the year, "Crescendo", was conducted from 9th to 12th March 2023. The theme for this year's fest was "Kaleidoscope" - the technical mirage. The festival brought together students from various colleges and universities to showcase their technical skills and compete against each other in various events.

The first two days of the festival were dedicated to council events, which included competitions in various fields such as computer, electronics, mechanical, entrepreneurship, and gaming. These events provided a platform for students to showcase their skills and knowledge in their respective fields. The various councils that put up events were Code-O-Fiesta by CSI which tested their knowledge through a quiz along with coding game in the final round, Code Golf by CodeLabs wherein the participants had to use minimum characters to solve coding problems, Formula Unicorn by E-Cell which tested the participants entrepreneurship skills, Shark Tank CRCE by ACM adapted the concept of Shark Tank wherein participants had the opportunity to showcase their innovative ideas in front of the judges, IoTrauma by GDSC which tested the participants electronic skills in building a circuit. Innovize by Mozilla allowed the participants to present their innovative and unique ideas through PPTs, Fortress Fight conducted by IIIE tested their building skills wherein teams had to battle it out by building structures and catapults, Mechatrix conducted by the Students' Council tested the participants mechanical knowledge along with a pit stop round and Valorant by GDA which allowed the participants to battle it out virtually.

The festival also featured five flagship events, which were the main attraction of the event. These events were Droid Dribble, Prakalp, Hackathon, Mecathon, and Elexathon. These events were designed to test the participants' technical skills and creativity.

Droid Dribble was a robo-soccer event where participants had to design and build their robots to play soccer. The event witnessed participation from other colleges as well. The participants demonstrated their technical skills and creativity by building robots that could move quickly and score goals.

Prakalp was a project competition where participants had to showcase their technical projects. It had two major domains: Hardware and Software. The competition provided a platform for students to demonstrate their technical knowledge and creativity. The projects showcased by the participants were innovative and showcased the students' creativity and technical skills. This event was organized and managed by the IEEE and WIE council. The Hackathon featured 3 problem statements that covered the Health, Educational and Environmental Domain. It witnessed immense participation from various colleges. Students had to develop innovative and practical solutions to the problems and were guided and mentored by mentors and judges throughout the competition.

For the very first time Mecathon and Elexathon were conducted offline in the college campus. Mecathon was a mechanical engineering competition where participants had to design and build machines that could perform specific tasks digitally. It had two problem statements covering wide aspects of the mechanical domain. The competition required the participants to use their mechanical engineering concepts and creativity to build machines that could perform tasks efficiently.

Flexathon was an electronics engineering competition where participants had to design and build electronic circuits and implement the working prototype digitally. It had two problem statements under the IOT domain. The competition required the participants to use their technical knowledge and creativity to build circuits that could perform tasks efficiently. The best council award for Crescendo 2023 was given to IIE.

Throughout the year, the events organized by the college were highly successful in fulfilling their objectives by offering a platform for students to exhibit their technical expertise and knowledge, engage with professionals in their respective fields, and receive exposure to the latest advancements in technology. Moreover, the events enabled students to establish connections and collaborate with their peers from different universities, presenting valuable opportunities for networking and collaboration. All of this wouldn't have been possible without the support of our Director Rev. Fr. Valerian D'souza and our Asst. Director Rev. Fr. Trevor Pereira. I would also like to thank our Principal Dr. Surendra Singh Rathod for his constant support and guidance provided throughout the year. Also I would like to express my gratitude to our Dean of Student Affairs Prof. D.S.S. Sudhakar, Technical Teacher-in-charge Prof. Swapnali Makdey and Crescendo Teacher-in-charges Prof. Sangeeta Parshionikar and Prof. Deepika for the unwavering dedication and help provided throughout the Technical Year 2022-23. Finally, I would like to express my sincere gratitude to the Students' Council for their outstanding efforts in organizing and executing all the technical events with utmost perfection.

**Ivan Dsilva
Technical Secretary
Students' Council 22-23**

SPORTS REPORT

"Sports do not build character. They reveal it." – Heywood Broun

The Students' Council of Fr. Conceicao Rodrigues College of Engineering is positioned as one of the best in promoting sports and physical fitness among its students. Our commitment to sports has not only enhanced the college's reputation but has also helped in creating a vibrant and inclusive campus culture. This year, we have organised various sports events, tournaments, and competitions that have not only provided a platform for students to showcase their athletic talents but also fostered a sense of sportsmanship and team spirit. Our sports events have included a wide range of activities, from cricket to football, table tennis to badminton, and many more.

In September 2022, we kickstarted our sports year with Intra Table Tennis and Carrom, which took place from the 10th to the 11th of the month. We were delighted to witness a high level of student participation and a competitive spirit that made the event a great success. On September 25th, 2022, we organised the intra badminton tournament at the Andheri Sports Complex in Andheri. The tournament was a huge success, with participants showcasing their exceptional badminton skills and displaying excellent teamwork and sportsmanship. The tournament provided an excellent platform for identifying talented players who have the potential to excel in the sport.

Our fourth intra-event, the Intra Boys Ground football, took place in October at Supari Talao, Bandra. The football enthusiasts put up a great show, displaying their skills and passion for the sport. With the conclusion of these four intra-events, our odd semester came to an end, and we eagerly looked forward to planning and offering more exciting events for both our college students and those from outside in the new semester.

The even semester was filled with several exciting intra-events for our students, and in January, we organized a range of events such as Ground Cricket, Throwball, Rink Football, and Chess in both boys' and girls' categories. One of the most notable events was the intra-ground cricket tournament, which we successfully organized after a gap of four years. The zeal and teamwork shown by our students gave us our deserving winners.

Our months of meticulous planning and hard work finally paid off as we successfully organized our annual sports festival, Athlos. This grand event included a wide range of sports such as ground football, rink football, and indoor games like table tennis, chess, and carrom. We left no stone unturned in ensuring that everything was in place for this mega event, from inviting over 30 colleges to participate to organizing numerous events at different locations. Our efforts paid off, and Athlos turned out to be a complete and resounding success, leaving a lasting impression on all those who participated.

The eagerly anticipated Sports Day at our college was finally celebrated on the 6th of March at the esteemed Mumbai University Ground. The event was kickstarted with a flurry of athletic events, including Relay races, Shot putt, and the Tug of War, which attracted a large number of enthusiastic participants. The students' sportsmanship and competitive spirit were on full display, making the event a memorable one for all those involved. With the successful completion of all the events, we proudly marked the end of another successful sports year at our college, providing a platform for students to showcase their talents and to embrace the spirit of sportsmanship.

Participation in sports was always aimed at bringing numerous benefits for participants. The enthusiasm and dedication that went in not just organising an event but also for the students to thoroughly enjoy the event giving a fair chance to each class to battle it out for the coveted Sports trophy proved to be the most challenging. But with countless suggestions from the students and the endless support given to us during the time of preparations, every event concluded smoothly.

Sincere thanks to our Director Fr. Valerian D'Souza, Principal Dr. S.S. Rathod, dean of students affair D.S.S.Sudhakar and sports incharges Dr. Dipak bauskar along with prof.Unik lokhande, prof.Deepali, Pradnya Maam for constantly supporting us. Special thanks to our Students Council for working so tirelessly day in and day out to make all our events a successful one.

Emmanuel Vazathra & Renu Nanadikar
Sports Secretaries
Students' Council 22-23

ROTARACT

The Rotaract Club of Fr. Conceicao Rodrigues College of Engineering is a prestigious organization that aims to organize fun events to provide opportunities for the development of people especially students. As an integral part of Rotaract, which is a worldwide organization of young men and women based in over 176 countries, the club is affiliated under the charter to the Rotary District 3141 Zone 1A under the parent Rotary Club of Bombay Bandra. Over the years, the club has organized several events that have made a positive impact on the society. One of the events organized by the club was Footslog 2022-23, a trek to Irshalgad Fort in Karjat on the 1st of October 2022. This trek was attended by 192 participants. The Irshalgad fort is well known for its scenic views, untouched beauty, and historical importance. The students were accompanied by local guides who told them about the fort's historical significance. The trek provided a great opportunity for the participants to connect with nature and learn about history. While ascending the students enjoyed the views of lush forest covers, waterfalls and the Morbe dam reservoir. Along the climb students stopped at various rest points to take small breaks and click pictures. After a few hours at the peak we began our decent back to the base village, during which the climbers were graced by fog and light rains. On 9th October 2022, the Rotaract Club of Fr. Conceicao Rodrigues College of Engineering organized its annual Beach Cleanup at Girgaon Chowpatty in collaboration with the NGO "Change Is Us". About 30 students participated in this beach cleanup activity. The aim of the cleanup was to raise awareness about the importance of keeping our beaches and oceans clean and healthy. This event showcased the club's commitment to protecting the environment. The club also organized a seminar on Business plan and Startup Life cycle on 12th October 2022. A total of 30 students attended the session, which was held in the Samvaad hall. The speakers for the session were Mr. Mohammed Ahmed and Mr. Rahil Dhami, the Co-founders of Hridam Surgicals. The seminar provided valuable insights into the process of creating a successful startup. Another seminar on How to plan for Startup-Legal and Ethical Steps was organized by the club on 25th January 2023. A total of 40 students attended the session, and the speaker for the session was Prof. Swati Ringe. The event provided attendees with a better understanding of the legal and ethical factors involved in creating a successful startup. Finally, the Rotaract Club of Fr. Conceicao Rodrigues College of Engineering organized the fifth installation of their flagship event, the Heart And Sole Run 5 (HSR 5) on the 19th of March 2023, with the Expo days taking place on the 17th and 18th. The Heart And Sole Run is a charity run that serves as a fundraiser for NGOs and Charitable organizations. HSR 5 helped provide funds and resources to underprivileged children of the Fr. Agnel Ashram. This year, more than 600 runners participated from all over Mumbai, as well as from other states. The run had 15 sponsors who supported the club in making this event a remarkable success. The Heart And Sole Run is comprised of four runs, namely, the 15km Zenzi run, 10km Explode run, 5km Dream run, and the 1.5km Soul run. The 15km, 10km and 5km runs were timed runs with the help of timing chips attached to the bibs of all the runners. These timing chips along with three checkpoints helped us determine the run times of all the runners as well as decide the winners. The participants received vouchers worth Rs. 16,000/-, and the total collective prize pool was worth Rs. 68,000/-. The event commenced at the break of dawn with an energetic session of zumba, followed by the start of the runs from Bandstand. The runners coursed through Bandra as they made their way to the finish line. The event was concluded with prize distribution and a few words from our guests of honour. The Rotaract Club of Fr. Conceicao Rodrigues College of Engineering has made a significant impact on society through its various events and activities. By organizing fun events, beach cleanups, seminars, and charity runs, the club has shown its commitment to making a positive difference in society.

TEDX-CRCE

With a view to spreading ideas and experiences, understanding what's truly possible, learning how to bend the rules, and reaching the boundaries of one's mind, the TEDxCRCE Annual Conference 2023 was organised by the TEDxCRCE Council on January 13, 2023, and started at 4 p.m. The TEDxCRCE Annual Conference 2023 took place in the Samvaad Auditorium in the Fr. Conceicao Rodrigues College of Engineering. 100 attendees took part in the event, along with guests from our various sponsors. This event aimed to encourage and provide a platform for young minds that were passionate about sharing their stories. There were eight speakers from varied fields of careers, namely, Mr. Prateek Sethi, a famous content creator, director, and producer. Dr. Ashok Johari is a renowned orthopedic surgeon working in the field of pediatric orthopedics. Mrs. Tannaz Irani, a famous actress, is well known for her roles in films like *Kaho na Pyaar hai*. Mr. Raj Aditya Kapoor is an entrepreneur, an expert on blockchain and strategic consultation, and an Advisory Board Member at several blockchain companies. Dr. Ashok Prabhakar is a United Nations Country Programme Officer with over 21 years of experience in more than 30 countries. Mrs. Pooja Taparia is the Founder and Chief Executive of Arpan, a globally recognised and award-winning NGO. Mr. Nakaash Aziz, the playback singer behind the music of Bollywood hits like "*Gandi Baat*" and "*Saree Ke Fall Sa*" among numerous popular songs, and Mrs. Aruna Rekha Varnasi, a Kuchhipudi performer who is well known to be one of the best.

In the years 2022–2023, TEDxCRCE conducted various events. As part of the NGO-The World Kindness Movement, we began with an online campaign called #onevoiceforkindness. This event featured a kindness jar on the website of the World Kindness Movement. To lift your spirits, you could write down a kind deed you saw or read other people's stories in the jar. The Khel Kud Movement, our subsequent event, was planned and carried out by TEDxCRCE in association with the NGO Kindness Unlimited. September 28th, 2022, through October 7th, 2022, were the dates for the campaign. TEDxCRCE asked the students of CRCE to donate old toys, games, and sports equipment for the underprivileged tribal children of the Roha district. The following activity was planned by the CRCE student council as a part of Synergy. It included a game for the CRCE students. The game was based on the well-known Pac-Man arcade game. The entire activity was designed to foster teamwork and help the group come up with a creative activity. The following activity, which was also a part of National Innovation Day, featured CRCE alumnus Mr. Gaurav Sen speaking on startups. Mr. Gaurav Sen is an Indian software engineer and content creator. His YouTube channel on competitive programming and systems design has more than 460,000 subscribers. Before starting interviewready.io, he worked as a software engineer at Uber. Mr. Gaurav has been India's highest-ranked programmer in multiple international coding contests. Mr. Gaurav spoke on various aspects of building a startup. We then conducted a webinar on Problem-Solution fit and Product-Market fit with the help of our guest speaker, Mr. Rohin Parkar. Problem-solution fit is a term used to describe the point validating that the base problem resulting in a business idea really exists and the proposed solution actually solves that problem. Product-market fit is the degree to which a product satisfies a strong market demand. The workshop aimed to help students improve their resumes and increase their chances of getting hired. Mr. Farhan Shaikh, an alumni of the college with over ten years of experience in the industry, spoke at the workshop. In summary, the TEDxCRCE Annual Conference 2023 was a successful event that featured eight speakers from diverse fields of careers. In addition to this conference, TEDxCRCE conducted various other events throughout the year, including campaigns for kindness, innovative activities, and webinars. Overall, TEDxCRCE has continued to inspire and empower students to achieve their goals and make a positive impact on society.

NSS REPORT

"The happiest people I know are those who lose themselves in the service of others."

-Anne Frank

NSS has always stood up to its strong spirit of serving the society., keeping in mind the motto "Not Me but You". Thus, the belief that we must strive for others is being realized through the selfless services of our unit who get into timely action, be it lending a helping hand to the needy or protecting and conserving the environment. We extend our gratitude to the tour Director Fr. Valerian Dsouza our Principal Dr. Surendra Singh Rathod our Program Officers Prof. Pradeep Singh, Prof. Deepika Singh and Prof. Sunil Yadav for their encouraging bit of advice which proved beneficial to our volunteers through thick and thin of each event.

The year started with the welcoming of the 100 NSS volunteers into the NSS family. Events organized by NSS CRCE over the current year include documentary screenings, webinars, offline visits to places, etc. The first official event that the NSS volunteers participated in was the Bhajan Sandhya organized by the NSS cell of University of Mumbai. The first event organized by NSS CRCE was the Animal Welfare organized by Mrs. Priya. The first grand event that NSS CRCE organized was the Blood Donation Camp in association with Tata Memorial Hospital. The next few events were the poster making competition for the Fire Safety, documentary screening for World Environment Day and Swatch Sagar Surakshit Sagar Seminar by Indian Coastal Guard (ICG). The event that our volunteers participated in was the Bhajan Sandhya on the occasion of Gandhi Jayanti organized by the University of Mumbai. The next three events that NSS CRCE organized were the Unity Day Celebration, Carbon Footprint Calculations organized by OnlyPlanet with Mrs Sumita and Poster Making competition on account of Republic Day. The next event was the major offline event which was the Bandra Fair Volunteering where NSS CRCE volunteers helped the Bandra Police in crowd handling. Next, NSS CRCE organized a Coastal Cleaning Drive on Bandra Bandstand. The next two events were Cultural Exchange Program and National Education Day.

The new year started with the first event which was Road Safety by Mumbai Police. Next NSS CRCE conducted Camp in Tandulwadi, Saphale in a span of 7days.NSS CRCE then organized a nature walk in the Sanjay Gandhi National Park. Next event was Street Play on account of Republic Day. After this the event was a Seminar on Stem Cells. NSS CRCE then organized a blood donation drive in collaboration with the Holy Family hospital of Bandra. To compensate for the volunteers who weren't able to attend the offline events so far, NSS CRCE then organized an event on Organ Donation where volunteers were given the importance of Organ Donation.

Currently we have a number of events and programs lined up for the coming days. As a team we always prioritize 'YOU' before 'ME' spreading cheer and smiles around. We sincerely thank our Principal, our Director and 'YOU' for appreciating the work we do.

Happy Serving!!

- Mohit Pansare

President NSS

WIE

WIE-CRCE is an affinity group of IEEE which is the world's leading professional association for the advancement of technology. We live by our mission everyday which is to inspire, engage, encourage, and empower IEEE women worldwide. WIE-CRCE aims to inculcate the importance and advancements related to technology and social issues to women to make them whole as an individual with a firm technical background.

WIE started the academic year with a seminar on women in startUp. This seminar educated students about the process of building a StartUp from scratch and to motivate them into believing in themselves and working towards their startUp idea. The speaker started the session by giving a few insights from her personal experience throughout the process of starting and accelerating her business.

Then the speaker talked about the process, funding, and how being a Women had an effect on the process of being a founder. It was an interactive session with an informative QnA at the end. The next event was "INGENIUM"- Innovative solutions for everyday life which was conducted on engineer's day, it was in collaboration with IEEE CRCE. During this event the students had to come up with innovative solutions to a specific problem statement. Three judges Mr. Saurabh Korgaonkar, Mr. Vaibhav Godbole and Ms. Kalpana Deorukhkar were invited to judge the solutions.

WIE CRCE also participated in synergy, it was a fundraising event called "CRCE TRANSYLVANIA" which was a CRCE themed escape room. It was a very successful event as we received the maximum amount of participation from each class from every year.

WIE-CRCE started out the new year with a technical event on phases of startups. The speaker Prof. Prajakta Bhangale gave an acute understanding of the different phases. WIE organised a data centre visit to SIFY technologies. Sify Technologies Limited is an Indian information and communications technology company providing end-to-end ICT solutions including telecom services, data centre services, cloud & managed services, transformation integration services and application integration services. The visit gave students and teachers adequate exposure, hands on experience and insight into the real working environment of the data centre. As WIE CRCE always conducts an event on women's day the next event was mental health awareness in collaboration with IEEE CRCE. The session consisted of information on how to cope up with stress and maintain one's mental health. Post session sanitary napkins sponsored by Niine Foundation were distributed among students and faculty members along with white roses as a symbol of respect to the female teachers. The students and teachers were requested to wear white for the celebration of women's day. WIE CRCE and IEEE CRCE organised their flagship event Prakalp 2k23 which was an intercollege level project competition as a part for our college technical fest crescendo which was also in collaboration with IEEE CRCE. More than 60 teams from different cities and states came to display their projects. Hardware projects including robots, muscle-controlled wheelchairs and AI powered

WIE

water checkers were displayed. Software projects included E-KYC portal, decentralized music sharing platform and many more. This was the first project competition conducted in the college after covid pandemic. Winners were awarded with cash prizes and goodies.

WIE CRCE has some more events lined up which will be a talk by a gynecologist to speak information on pcos , pcod and other conditions and women's health and a workshop on LaTex software. IEEE-WIE CRCE would like to extend their gratitude to the teacher incharge Prof. Sushma Nagdeote for encouraging and guiding them. WIE CRCE would also like to thank the principal for supporting and appreciation for the work they do.

IEEE

IEEE-CRCE is a student society of the IEEE which is a global association of professionals working toward the development, implementation and maintenance of advanced technology. IEEE CRCE aims to inspire students about this highly technical global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

IEEE CRCE started the academic year with a seminar on Incubation. The speaker for the seminar was Mr Prasad Menon, he is Vice – President of the Indian STEP and Business Incubators Association (ISBA). He explained the startup incubation from the very creation of the idea to building the team, launching products, patenting projects, etc. He also explained various opportunities for the students and facilities and this startup world

IEEE CRCE always conducts an event on writing a research paper and Patent filing. Principal sir was the speaker for this event. He explained to the students what is a research paper, topic selection, steps to write a research paper, how papers are checked by publishers, etc. He along with his student Jenil Dave explained about patent filling, all the required legal documents, and things which can be patented, etc.

The next event was "Ingenium" in collaboration with WIE CRCE.In this event, students were told to come up with innovative solutions to help individuals with different types of disabilities. The Judges gave scores on their project's Innovativeness, originality, usefulness and technical compatibility.

IEEE CRCE organized an industrial visit at SICK. It is a leading intelligent sensor manufacturer and service provider which is located at Naigaon E. Faculty members from the AI&DS department gained information about various advancing sensors used in industry, manufacturing of sensors, quality control programs, logistics management, client requirements, etc. The industry supervisors also explained to them about sensors used in Petroleum companies, airport systems, RFID sensors, etc.

IEEE

IEEE CRCE participated in Synergy by launching "Lazer maze". In this game, students need to dodge the laser beams to reach the winning destination. This event was very successful as more than 60 students participated from various classes.

IEEE CRCE organized a seminar on Artificial Intelligence. The speaker of this session was Mr Uday Kamath. He explained emerging areas in the field of AIML and Data Science, the important skills which are necessary to enter into this field, etc. In the Q&A session, he explained the application of AI in Defence, Quantum computing, etc.

IEEE CRCE organized a webinar on Git and GitHub. The speaker of this session was Ivan Dsilva. The speaker first explained the basics and importance of "Git" and then he explained "GitHub" from account creation to writing and improving codes, etc.

IEEE CRCE in collaboration with WIE CRCE organised the flagship event "Prakalp 2k23" which is an intercollege level project competition as a part of our college technical fest Crescendo. More than 60 teams from different cities and states came to display their projects. Hardware projects including robots, muscle-controlled wheelchairs and AI powered water checkers were displayed. Software projects included E-KYC portal, decentralized music sharing platform and many more. This was the first project competition conducted in the college after covid pandemic. Winners were awarded with cash prizes and goodies.

IEEE CRCE would like to extend their gratitude to the teacher in charge Prof. Swapnali Mam for encouraging and motivating the council members in the journey. IEEE CRCE would also like to thank the principal sir for supporting and appreciating our work.

MOZILLA

1. Innovation And Entrepreneurship

The first event organized by Mozilla Campus Club CRCE was a seminar on AI & Entrepreneurship on the 23rd of September 2022. The students were enlightened on the topic by industry expert Mr. Kunal Aman. Mr. Kunal Aman is a modern marketer, proficient in using analytics to provide key business insights for data-driven decision-making to improve outcomes & ROI. He is currently the head of Marketing and Communications at SAS for the Indian Subcontinent and Japan. The main objective of this seminar was to enlighten the attendees about the problems encountered with the exponential growth of data and how innovative Data Analysis and AI solutions can overcome this problem and benefit an organization. A total of 80 students from SE, TE, and BE attended this seminar.

2. GameZilla - Synergy 2022

The second event of the year was Synergy 2022, the annual non-technical fest of Fr.CRCE on 21st October 2022. We organized GameZilla which was a mix of Stumble guys, Uno flip, and Wikipedia game. A total of 47 people participated in this event. The event was divided into 3 rounds and people qualifying were only allowed to participate in the next round. Of the 47 attendings, 16 moved on to the next round followed by 8 entering the final round. The competition ended with Mr. Jonathan Joseph ending in first place and Mr. Zeeshan Khan ending in second place.

3

. Design Validation Using Double Diamond Approach

Following GameZilla, Mozilla Campus Club CRCE organized one more seminar which was only for the final year Mechanical Students on 25th January 2023. This seminar was carried out by Dr. Hemant Khanolkar, Assistant Professor, Humanities and Science Department. The seminar was held in 401 from 11 am onwards. The main objective of this seminar was to enlighten the students on the concept of the double diamond approach and how it can be used in design validation and to solve problems encountered. A total of 18 students from BE Mechanical attended this seminar.

5. Innovize - Crescendo 2023

After finishing Unscript on a successful note, Mozilla Campus Club CRCE organized Innovize on 9th March 2023, for the annual technical fest of Fr.CRCE, Crescendo 2023. Innovize allowed students to share their unique solutions to real-world problems. The participants were given a specific domain on which they were asked to develop a presentation showcasing their creative idea to our judges. A total of 24 teams participated in this event. The event was conducted in lab 803 and started at 2:00 pm. The teams were divided into 3 slots on a first come first serve basis. The event ended with the following people taking home the prizes-

1st Prize - Preeti Vasaikar & Dillon Gonsalves (TE Comps B) 2nd Prize - Gini Chacko & Candida Noronha (BE Comps B) FE Prize - Jayden Colaco & Alvin D'souza (FE Comps A)

CSI-CRCE

Computer Society of India (CSI), CRCE is a council that works best to explore the new trends and technologies used in industries to the students at our college. CSI-CRCE Student Chapter regularly organizes workshops, seminars, hackathons, and technical talks for the knowledge enrichment of students and users of IT apart from conducting development programs from professionals, researchers and ensures that all the students are provided with a strong footing in the technical domain.

The council began the academic year by organizing a virtual session on My Story – Motivational Session by Successful Innovators on 16th September, 2022. Mr. Mohit Maheshwari, Director of Ingenius Technologies & Consulting, was the speaker for the event. The objective of the event was to enlighten the young minds about entrepreneurship skills and start-ups.

The next event by the council was Hackathon Hackover 3.0 in collaboration with three councils GDSC- CRCE, E-CELL CRCE and GDA-CRCE. It was the first hackathon of the academic year in our college which was a 24-hours event conducted on 4th and 5th of October. The primary goal of this event was to bring computer programmers and developers to improve upon or build a new software program.

Next, CSI celebrated Software Freedom Day – An event about Open-Source Contribution on 11th October 2022. The Speaker of the event was Mr. Warren Fernandes. The objectives of the session were to bring together the young talented minds to converse about the domain of open source software, contributing to open source projects and to solve the interesting questions of the audience within this domain.

Fear-Fair was the last event of Odd Semester conducted by CSI-CRCE during Synergy on 21st October, 2022 which was a non-technical competition of 3 rounds which were Whisper Challenge, Sling Shoot out and Sequence Cup. The objective of the event was to organise and give students a nice competition for the non-technical festival of the college, Synergy. Furthermore, CSI in collaboration with ACM-CRCE organized the Unscript Rookie's Hackathon, 2023. It was an online hackathon which was conducted on the 11th and 12th February 2023. The primary goal of this event was to boost the innovation culture and further establish the idea-sharing, effective collaboration and creativeness driven by enthusiasm towards a shared goal. The hackathon allowed the participants to connect with Industry personnel's, faculty mentors, and most importantly, with each other.

The council organized the event 'Code-o-fiesta' for Crescendo 2k23. Event was held on 09th March, 2023. A total of 31 participants participated in the event. The event was of 2 rounds where 1st round was a qualifying round conducted on online platform Kahoot and 2nd round was a Coding Game. Ms. Vanessa Dmello won first prize of Rs. 3000 and Mr. Omkar Anabathula won second prize of Rs.1000 and Zane Fernandes got FE prize of Rs.750. CSI is ever ready and open to every mind in the institution, thereby helping them become industry ready.

CSI-CRCE

.With a dedicated and talented council, sincerest efforts are made to ensure that participants and target audiences are always at the forefront while planning an event.

ASME

Topic : F1 Motorsport

Organised a webinar on F1 motorsport with Mr. Shubham Sangodkar who is a Ex Aerodynamicist from Red Bull Racing. In this session following points were covered :

- 1.Journey from India to F1 and the lessons that Mr. Shubham learnt along his 13 years of journey.
- 2.The Aerodynamic Design cycle at an F1 team :

From finding loopholes in the regulations to CFD,Wind Tunnel and Track Testing.

The different roles and opportunities available at an F1 team for graduates and what the teams expect !!.

Topic : Engineering the TESLA Experience

Conducted an live podcast with Mr. Jeet Gupta who is Mechanical Design engineer intern at TESLA. In this session some of the questions were asked on pursuing a great career in Mechanical Engineering.

The speaker of this session is Mr. Jeet Gupta. He has done undergrad from VIT (Vellore) in Mechanical Engineering now he is an M.S. student of Mechanical Engineering attending Purdue University, USA. He has secured two internships at TESLA as well.

Topic : Supply Chain 4.0

ASME CRCE has organised a seminar “Supply Chain 4.0” for the students on the 15th of February 2023 at Seminar Hall. The speaker of this seminar was Mr. Sujit Khakale. He is the Senior Manager of the Supply Chain at Galaxy Surfactants Limited.

Mr Sujit began the seminar by explaining how to define a goal. He then explained the Input-Process-Output journey of a product. He then started to explain the basics of Supply Chain Management and then went on to speak about Supply Chain 4.0 and its use in the industry. He also gave the students an insight into the scope of this field in the future. The speaker effectively conveyed all the points on the topic through flowcharts and diagrams and made the session interactive and interesting by giving real-life examples.

Synergy 2022:

Event Name: Slytherin Pirates

ASME CRCE had organised an event namely “Slytherin Pirates” for Colleges’s Non-Tech Fest called “Synergy 22”. There were two rounds in the competition. Round 1 started from 12 am to 2:30 pm & Round 2 Started from 3:00 pm to 5:00 pm.

ASME

It was the team Event. 7 teams participated in this event. There were four students per team.

In the 1st Round called "Snake Drop" All the eyes of the team members were covered, and they were told to pick balls of a particular colour from the floor and put them in the basket. The last team member's eyes were open and he was giving directions to the team by tapping on their shoulder and then the next member would tap the same on another member. The person who was ahead was responsible to pick the balls 3 teams got qualified in this round from the 7 teams played.

In the 2nd Round it was called "Treasure Hunt". For this round, objects were placed in different areas of the 7th, 8th, and 9th floors at the college building and then participants had to find those objects. Participants first found the objects in the college's owned Samvaad hall and then clues were given to them after completing each task. This round was really exciting for the participants and they enjoyed it a lot. Only one team completed this round, other teams were not able to find objects in the given time.

III E

During the academic year 2022-2023, IIIExCRCE put in a lot of efforts and conducted various seminars, industrial visits, etc to provide quality knowledge to the students. Apart from this, IIIExCRCE also conducted various events, which received an outstanding response from the audience and participants. The details of all seminars, events, etc have been mentioned below. 1) Seminar 1 : Seminar on "Design to Manufacture - A Quick Tour" by Mr. Siddhesh Bhopi was organized on August 24, 2022 whose sole objective was to make everyone understand the process that takes place between the designing and manufacturing of a product and the different types of phases between designing and manufacturing of a product. 2) Seminar 2 : Seminar on "Business Model Canvas" by Mr. Tushar More was organized on October 10, 2022. The objective of the seminar was to make everyone aware about the concept of business model canvas. 3) Synergy : An event named "Zoo-otic" was organized during Synergy on October 21, 2022 which consisted of three rounds. The details have been mentioned further. Round 1 : The name of this round was "Cup-shup" where participants were given a particular number of cups, which were to be stacked on one another. The cup on the top was coloured and needed to be transferred to the bottom of the column by stacking the cups, one at a time. The fastest 20 participants were being advanced to the second round.

IIIE

Round 2 : The name of this round was "Ae Raja line par aa ja" where various cardboard fishes with rings attached to them were kept on the ground at a certain distance and the participants were supposed to use the rod having hook attached at the end to pick up the fishes and the top 5 participants to do it faster were being advanced to the final round.

Round 3 : The name of this round was "Wha-Saaap" where finalists played a game of giant snakes and ladders but with a twist where the participants had to answer trivia to move ahead on the board.

4) Industrial Visit : Industrial visit to Central railway Workshop, Matunga was organized by the council on February 16 and 17, 2023 where the students gained knowledge about our Indian Railways and learned about the manufacturing of various parts

. 5) Crescendo : An event named "Fortress Fight" was organized during Crescendo on March 9 and 10, 2023 which won us "The Best Organizing Council " award for successfully conducting the event and due to amazing response it received from the audience and participants. In this event the teams participating were given jenga blocks to build a fort like structure and some materials were provided to build a catapult to break the opponent's fort in a given time span.

6) Seminar 3 : Seminar on "Intellectual Property Rights" by Prof. M.V.B. Rao was organized on April 26, 2023 on the occasion of "World Intellectual Property Rights Day". The main objective of this seminar was to make students understand what exactly intellectual property rights are ! and to make them aware about intellectual property rights.

Special Achievement : IIExCRCE won "The Best Technical Event Award" and "The Chairman Special Award" for the previous events held at our college. Additionally our faculty advisors also received "Excellence Award" and "Faculty Appreciation Award" for their guidance and aid towards our council by IIIE Mumbai Chapter who organized a prize distribution ceremony on January 28, 2023 to congratulate and appreciate the various student sections of IIIE for their exemplary work.

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E-CELL

The Entrepreneurship Cell (E-cell) firmly stands with the official motto of college which is - Moulding Engineers Who Can Build Nations. And in this ever changing world, engineers are essential and so are entrepreneurs. E-cell believes in creating and fostering entrepreneurial culture among budding engineers by identifying, training and motivating students to become entrepreneurs. And we shall strive relentlessly towards it. Our council was formed by the interview processes which were conducted over a course of week which saw the participation of 20 students from various branches of the college out of which 4 students from the SE got selected and 3 students from TE got selected. The following points were majorly kept in mind during taking the interviews which were - Interest in the council, Why do they want to join/continue the council, Proactiveness, Ability to handle events, The knowledge about Entrepreneurship, Situations were given to all the candidates and they were tested on the basis of their answers. Also after the formation of the council, we sat with other councils to discuss the dates of the events and form a yearly calendar. Our first event, one of the most awaited 'The Idea Competition' conducted offline for the third time by E-Cell in collaboration with the IIC-FRCRCE Council which was held during 29th July 2022 to 9th August 2022 which saw the participation of 105 teams. Professors from our college FrCRCE served on the panel of judges to guide the students in the right direction. Themes for the event were as suggested by the IIC comprising multiple domains. Ideas were shortlisted for final presentation on the basis of novelty, technologies used, technical and financial feasibility and market survey. All teams came up with innovative ideas. The team with maximum points was declared as the winner of the competition. Both phase 1 and phase 2 were conducted during this duration. Phase 1 included pitching events for ideas scouted and linkage with innovation ambassadors for mentorship support and Phase 2 was conducted on 5th November 2022 which was Proof Of Concept (POC). Our next event was on 4th-5th October 2022, a Hackathon, "HACKOVER 3.0" was held. It was in collaboration with Google Student Developer Club(GDSC), CSI CRCE and GDA. Hackathon provides student contributors to strengthen soft skills like leadership, mentoring and communication. It also provides an opportunity to explore their technical, coding and development skills, probe their domain of interest, discover and develop new skills, overcome their weak areas and compete for fame and glory. The primary goal of this event was to boost the innovation culture and further establish the idea-sharing, effective collaboration and creativeness driven by enthusiasm towards a shared goal. The hackathon allowed the participants to connect with Industry personnel's, faculty mentors, and most importantly, with each other. ECELL-CRCE conducted the Synergy on 21st October 2022 which was a fund-raising event. The game that we chose was Kickin It wherein a team of 2 members were allowed and each team got a chance to play. There was a football related X and O in the first round and all the teams that qualified in the first round qualified to the next round. Around 9 teams qualified. The second round was bowling with football. The team that scored maximum points won and were awarded with the prize money. The prize money was Rs 1000/- for the first winning team and Rs 500/- for the second winning team.

E-CELL

E-Cell also conducted a webinar on “Business Model Canvas” on 18th February 2023 to help the participants of Idea Competition understand the core of a business that is the business model canvas and how to go on about making a business plan and its implementation. The invited speaker was Mr. Shikhar Sachdev, director of Dhaniram Group of Industries. The session focused on the areas of startups and minimum viable product (MVP) and saw participation of more than 60 people. The next phase of “Idea Competition” called “Business Model Canvas” was conducted on 8th March with Dr. Sunil Das and Ms. Mariya Ali serving as the main judges. The event was conducted online on google meet platform with 13 teams participating in total who were selected from the previous i.e Proof Of Concept. Their ideas were judged on the basis of value proposition, returns and investment, market capture strategy and cost evaluation. The select few teams were then qualified for the final phase i.e “Demo Day”. And our next event for this year, but perhaps the most important one was ‘Formula Unicorn’. E-cell’s very own event in Crescendo this year taking place on 9th and 10th March was Formula Unicorn. Consisting of 2 rounds, this event was a blend of fun, excitement and learning. From auctioning in round 1 to presenting a product/service in front of judges, it had it all. A total of 17 teams participated in the event including 2 teams from other colleges in Mumbai. Out of those 17 teams, 9 teams qualified for round 2 where they had to present their business ideas in front of the judges

**-Anika Makhija
(Documentation Incharge)**

Codelabs

Codelabs CRCE is a council that promotes the interdisciplinary nature of coding amongst students, irrespective of their fields. It organizes various technical and non-technical events for the same on an intra-college level. The council has provided students with multiple courses, free of cost which would help their skills.

PROFESSIONAL ACTIVITIES: 2022-23

Chairperson – Vanessa D'Mello

Various activities conducted during the year are:

AlgoHolic 1.0:

Date: 17th September 2022

Department: Computer Engineering

Description: AlgoHolic 1.0 – A platform where one can use their favourite language and develop awesome logical solutions to given problem statements. A 2 hours event with 7 problem statements can make one the master of coding. Brushing up your logic in the first level, take your thinking abilities to the next level until you reach the final one.

Binary Talk:

Date: 21st September 2022

Department: Computer Engineering

Description: A 2-hour seminar for enlightening the students about Git and GitHub and how they are helpful in collaborating on projects.

Technology Vision 2035 & Potential for Innovation:

Date: 21st October 2022

Department: Computer Engineering

Description: A seminar conducted with collaboration with IIC-FRCRCE in regard to the scope and forward-looking projection of how technology will continue to shape our lives over the next decade and beyond.

Trivia Battle:

Date: 21st October 2022

Department: Computer Engineering

Description: A fun and lively Trivia Quiz Competition was held during our college event 'SYNERGY'. Questions were to be asked from many numerous subjects, each of varying difficulties, keeping in mind the ever-increasing competition after every round.

AlgoHolic 2.0:

Date: 14th January 2023

Department: Computer Engineering

Description: A programming challenge designed to analyze one's coding skills as well as improve one's logical reasoning. This was the same as AlgoHolics 1.0 but with new and improved questions so as to improve the exposure of the type of questions for the students.

Unscript 2023 Hackathon

Date: 11th and 12th February 2023

Department: Computer Engineering

Description: An inter-collegiate 24-hour Tech Hackathon was organized in association with Mozilla Campus Club CRCE. A comprehensive technology Hackathon Unscript invites Coders, Student entrepreneurs, researchers, designers, makers, technologists, and everyone enthusiastic about Web and App Development, anyone who knows how to dabble with Machine Learning, Android App Development, Artificial Intelligence, Web App, Deep Learning.

CodeGolf:

Date: 9th March 2023

Department: Computer Engineering

Description: A fun programming challenge wherein the participants had to solve the problem statements in as minimum characters as possible.

GAME DEVELOPER ASSOCIATION

UNLOCK YOUR CREATIVITY

GAME DEVELOPERS ASSOCIATION OF FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING IN BANDRA, MUMBAI HOSTED A TWO-DAY WORKSHOP ON 19TH & 20TH OF SEPTEMBER, 2022. THE WORKSHOP ON UNITY AND BLENDER AIMED AT IGNITING STUDENTS' INTEREST IN GAME DEVELOPMENT AND ANIMATION SKILLS. THE EVENT WAS ORGANIZED UNDER THE IIC-FRCRCE AND LED BY GUEST SPEAKERS MR. AKSHAY NADAVADE, A COMPUTER ENGINEER AND GAME DEVELOPER AT SUMO INDIA STUDIO, AND MR. SAHIL PUROHIT (SENIOR ANIMATOR AT GDA) AND MISS RITIKA RUMDE (CO-LEAD AT GDA). THE WORKSHOP RECEIVED ENTHUSIASTIC PARTICIPATION FROM 32 AND 35 STUDENTS RESPECTIVELY ON EACH DAY. THE STUDENTS WERE ABLE TO GAIN VALUABLE KNOWLEDGE ABOUT GAME DEVELOPMENT AND ANIMATION TECHNIQUES, AND EVEN CREATED THEIR OWN MINI DEMO GAME AND ANIMATIONS. THE WORKSHOP WAS DEEMED A SUCCESS, AND THE GDA (GAME DEVELOPERS ASSOCIATION) – FRCRCE FACULTY INCHARGE, PROF HEENA PENDHARI, EXTENDED HER THANKS TO THE SPEAKERS FOR THEIR CONTRIBUTIONS.

HACKEROVER 3.0

THE GAME DEVELOPERS ASSOCIATION (GDA) ORGANIZED THE HACKOVER3.0 HACKATHON IN COLLABORATION WITH GOOGLE STUDENT DEVELOPER CLUB (GDSC), E-CELL, AND CSI ON 4TH-5TH OCTOBER 2022 AT FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING, MUMBAI. THE EVENT FEATURED THREE DOMAINS: WEB/APP DEVELOPMENT, BLOCKCHAIN, AND GAME DEVELOPMENT, WITH A TOTAL OF 151 STUDENTS AND 2 FACULTY MEMBERS IN ATTENDANCE. THE EVENT WAS EFFECTIVELY PUBLICIZED THROUGH VARIOUS SOCIAL MEDIA PLATFORMS AND ATTRACTED REGISTRATIONS FROM STUDENTS ACROSS DIFFERENT COLLEGES IN INDIA. THE ORGANIZERS HELD WEEKLY PLANNING MEETINGS AND COLLABORATED WITH CORPORATE PARTNERS FOR SPONSORSHIPS. THE HACKATHON AIMED TO STRENGTHEN SOFT SKILLS AND PROVIDE AN OPPORTUNITY FOR PARTICIPANTS TO EXPLORE AND DEVELOP TECHNICAL, CODING, AND DEVELOPMENT SKILLS.

THE EVENT FEATURED AN INAUGURATION BY SPEAKERS FROM GDSC AND CSI, MENTORING ROUNDS, AND TWO JUDGING ROUNDS, CONCLUDING WITH THE ANNOUNCEMENT OF THE WINNERS. THE EVENT RECEIVED POSITIVE FEEDBACK FROM PARTICIPANTS, AND THE ORGANIZERS THANKED THE FACULTY MEMBERS- PROF.

HEENAKAUSAR PENDHARI FROM GAME DEVELOPERS ASSOCIATION, PROF. ASHWINI PANSARE FROM C.S.I., PROF. KALPANA DEORUKHAR FROM G.D.S.C., AND PROF. PRAJAKTA BHANGALE FROM E-CELL, JUDGES, MENTORS, AND COUNCIL MEMBERS FOR THEIR SUPPORT AND GUIDANCE.

GOOGLE DEVELOPER STUDENT COUNCIL

Event Name	Event Description
Android Compose Camp	Android Compose Camp was the first flagship event of GDSC CRCE organized on 13/09/2022, 17/09/2022, 19/09/2022 and 20/09/2022. Participants were thoroughly acquainted with the latest technology of Kotlin programming and Jetpack Compose library. It was a 4 day workshop and saw a very healthy response of average 55 participants per day.
Hackover 3.0	Hackver 3.0 was the first Hackathon of this academic year at CRCE organised on 4/10/2022 and 5/10/2022. It saw an overwhelming participation of 89 teams across 3 domains. This was an online hackathon where participants were able to develop industry ready solutions for the given problem statements. This event embarked a journey for many students across Web Development, Game Development and Blockchain domains.
GCCP (Google Cloud Career Practitioner)	Career Practitioner (GCCP) is a very popular program offered by Google Cloud India. This program was conducted by GDSC CRCE. It was a one month long program organised from November to December 2022. It saw an amazing participation of 120 students. All the participants were acquainted with the basics of Goole Cloud Platform and completed practical implementation of real world cloud services.
Bit N Build	Bit N Build was the first and the biggest Hackathon of CRCE organised on 28/01/2023 and 29/01/2023. It saw a participation of 150+ teams of which 60 shortlisted teams got a chance to participate in this offline hackathon. Bit N Build provided the participants a choice of 4 domains namely AI/ML, Blockchain, Web/App and Open innovation. Top 3 winners across all domains were awarded with cash prices and exciting goodies and swags from our partners.
Python and ML Workshop	Python and ML Workshop was organised by GDSC CRCE on the occasion of World Happiness Day in collaboration with NSS CRCE. This workshop saw the participation of 95 students and provided the participants an opportunity to learn python basics along with working of machine learning and practical implementation of a Emotion detection mechanism.
National Mathematics Day	GDSC CRCE organised an event to celebrate National Science Day. This event saw a participation of 45 students who participated in 2 events curated for mathematical minds.

HAWK-I

HAWK-i CRCE is a One Stop Platform for students who are enthused in learning cybersecurity and provides various student-led initiatives for the same. This year HAWK-i saw a rapid growth in cybersecurity learners at CRCE being its first year of initiation. Throughout the academic year 2022-2023 HAWK-i conducted various events and activities, sought participation from students from various branches, and gave out many opportunistic resources to students through the WhatsApp Community.

In alignment with our Mission/Vision on September 17, 2022, HAWK-i held its first event, called "Introduction to Cyber sec". Mr. Upmanyu Jha, the organization's founder and a fervent supporter of cybersecurity, presented the seminar, which provided CRCE students with an introduction to the fundamentals of cyber security and ethical hacking.

HAWK-i continued its voyage by presenting "Bug Bounty," another workshop that was full of entertaining activities. A 2-Day workshop was held on September 29 and September 30, 2022. HAWK-i organized "Virtual Private CTF" as its first joint event with the Google Developer Student Chapter of CRCE. The Students Council arranged the Synergy Fest, which included this event. The participants were offered wonderful rewards for completing the Capture the Flag (CTF) puzzle. This event was held on 21st October 2022.

A session on Cyber Crime awareness & Web Application Security was delivered on 3rd February, 2023. It was geared towards first-year students and focused on how to protect social media platforms against cyberattacks and cybercrimes such as sextortion, video call scams, cyberbullying, phishing, etc. In association with the Google Developer Student Chapter of CRCE, we organized the AWS Cloud Computing and Cloud Security Workshop specifically for students of the Artificial Intelligence and Data Science Engineering Department (AIDS) on 15th and 16 February, 2023. Students gained knowledge from this workshop about using cloud computing to their advantage when working on projects.

The first-ever Mumbai Cybersecurity Conference, our flagship event SummerCon CRCE, was held on April 8, 2023.

SUMMERCON CRCE 2023

HAWK-i's Summer Conference is an excellent opportunity for companies to collaborate with students in order to benefit students through internships, employment opportunities, discounts, etc. Prominent security experts from around the world interact with students and outline their cybersecurity career paths in a welcoming and vendor-neutral setting. Students who attend this event will get crucial information about numerous cutting-edge studies on a range of topics. Keynote presentations at Summer Con will feature special guests sharing their individual perspectives and triumphs. Also, panel discussions will give visitors personalized technical insights on a range of topics, such as the most recent developments in penetration testing with the Pentest Showdown and Bug Bounty Show Down. Furthermore, Tech Talks will cover a range of subjects including DeFi, Cloud Security, Smart Contract Security, API Hacking, AI based Hacking & much more. Another interesting component will offer participants specialized workshop training in the realm of Drone and IoT Hacking.

VAAYUASTRA

Team Vaayushastra was established in 2012 to represent Fr. Conceicao Rodrigues College of Engineering in the SAE Aero Design Competition. Teams from all over the world take part in this competition, which is conducted yearly in the United States of America. Since the year 2013, we have participated annually in the advanced class of the SAE Aero Design Competition, consistently securing a position in the top 10 teams worldwide. We fiercely adhere to our team's slogan, which is Dream. Build. Fly.

The team is formed entirely of undergraduate students from the college who have the aptitude, enthusiasm, and drive conducive to the competition. We focus on designing and constructing cutting-edge unmanned aerial vehicles (UAVs) which are best suited to accomplish their respective missions. We have four sub-departments each for specific tasks:

- Design & Modelling Dept.: handles the designing, modelling, simulation, and fabrication of the aircraft ensuring that the plane designed is competitive over other teams.
- DAS Dept.: ensures various systems that propel and manoeuvre an airplane and provide important data such as altitude, velocity, location, First person view, etc.
- GUI Dept.: makes the computer logic and codes necessary for the aircraft. GUI is a type of user interface that allows users to interact with electronic devices through graphics.
- Media and Marketing Dept.: handles the media accounts as well as the financial needs of the team. They look after all documentation works to ensure smooth functioning and also get in touch with potential investors.

Last year, due to the covid-19 situation, we participated in Virtual Technical Presentation and Design Report rounds of the competition. We were able to achieve amazing scores in these rounds. We achieved 4th rank in the Design Report and 6th in the Technical Presentation globally. As well as an overall rank of 5th globally.

This year our problem statement (Advanced Class) is to build an aircraft to combat wildfire situations. By maximizing its capacity to carry water and an autonomous delivery aircraft under 500 gms, which will contain parts for a Ground Transport Vehicle that can transport the water to any location quickest. Therefore, for SAE 2023, we have developed 3 unique vehicles. They are:

- 1.Primary Aircraft(PA)
- 2.A smaller autonomous aircraft (PADA)
- 3.Ground Transport Vehicle(GTV)

The manufacturing of the plane began in November and most of it was completed by January 2023. From January to March, most of the time was spent on flight tests and rectifying any issues caused during them. By the time the competition arrived i.e. 8th March 2023 the plane – BUMBLEBEE was battle ready. This year, the team was represented appropriately and competed in every round of SAE Aero Design West at Lakeland, Florida, USA to the best of its limits. With an official ranking of 11th worldwide we as a team are proud of the efforts taken to accomplish our mission this year.

-Sandra Thayyil

CRCE FORMULA RACING

CRCE Formula Racing is a formula student team of Fr. Conceicao Rodrigues College of Engineering based in Bandra, Mumbai. We are bound together by our shared passion for automobiles, motorsports and our competitive spirits. As budding engineers our sole purpose is to build and learn as we advance ahead. Honing theoretical knowledge and applying it practically, our team members have gained practical knowledge and developed a critical thinking, every member of Team CFR also gains excellent knowledge of team building, overcoming collaborative challenges and at the same time have a strong grasp on time management and leadership roles. We believe true growth takes place only outside of your comfort zone and as we know rolling stones gather no moss. Keeping that philosophy in mind and hustling towards it every day, TEAM CFR has taken the next leap in its story by permanently shifting towards building full fledged electric racecars. Founded in 2014; our team has only had an incline in success every single year, pushing the boundaries of the goals of the team and even our knowledge on an individual level. Last season was the team's first shift to an electric vehicle as we competed in the EV category of the Formula Bharat competition, 2023. This was one of the biggest milestone the team has achieved till date and the team secured an All India Rank of 7th position overall!



Gensis 1.0: A New Era and a New Beginning. Genesis car number E10; Our car is the result of tremendous hard work, sacrifice, effort and hope. 8 years of pure passion and sweat has brought Team CRCE Formula Racing to this point, where we have built our first electric vehicle and have secured 7th All India rank (AIR) on our very first Formula Bharat EV competition this January. From the season's first rulebook test to the onsite event, we have faced many challenges and have overcome huge obstacles to bring our dream i.e. Genesis into reality. It is overwhelming to see the growth and success the team has achieved in these years and is still aiming for the same. But this is just the beginning... going to soar right into the sky.

ROBOCON

We as a team have few of the most diehard robotics enthusiasts that go beyond the domain boundaries to explore the world of electronics, mechanics and computers which help us achieve heights in our competition. This sets us unique from others since we don't limit ourselves to the boundaries set by the educational system and focus on solving real life problems.

DD Robocon is our flagship competition which is a friendly robotics competition, wherein all the colleges and robotics teams across India, compete for the title.

The stage one of the DD Robocon was the documentation round wherein our Team Robocon CRCE had the objective to explain our mechanisms and highlight the attributes and strong points of the same.

Apart from this a full-fledged CAD model was also made by the team. The team successfully surpassed round 1 with AIR 9 thus Qualifying for next round.

The round 2 involved submitting a video of the robots' working as per the criteria laid by the committee. The team submitted several videos that showcased the working of the various mechanisms involved in the robots. The team successfully cleared it with an AIR 6.

The final round consisted of us, Team Robocon CRCE travelling to the city of Delhi, where it was held in the prestigious Thyagaraj Stadium. Herein, we competed by pitching our handmade robots with the ones developed by the opponent teams. The team that scored the highest points regarding the rule book, would be the one to win the match.

Us, Team Robocon CRCE, in conjunction with our extremely assistive and exceptionally talented alumni and faculty, managed to grab a win in our first playoff match, and accomplish an AIR rank of 21, against the top 50 most talented teams and colleges in India, participating in the competition.

To carry this same passion forward we hold various workshops and seminars to nurture the love for robotics in the minds of other robotics enthusiasts like us.

The team aims to take this legacy forward to establish engineers who grasp knowledge for complex problem and have a deep affinity towards innovation and new ideas.

**AAYUSHI THAKUR
CAPTAIN (ROBOCON CRCE)**

PROJECT CELL

Established in 2014, PROJECT CELL is an endeavor to promote innovative thinking among young minds. We work towards accomplishing tasks that could be gradually developed on a large scale and solve many social problems today. At Project Cell, we learn new concepts and techniques and gain practical experience in implementing creative ideas. The main goal of the Cell is to learn new technologies while developing new projects.

Activities carried out in the cell throughout the year:

1. We participated in E-yantra Robotics Challenge (2022-23) held at IIT Bombay, we reached the hardware sprint after clearing stage 3 of the Competition. The project we aimed to develop was based on the ideology "Smart City"

Many industries began using home delivery through the years as a way to enhance their services. However, this technique necessitates the use of labour as well as a vehicle, which increases fuel consumption. What if we sent robots to your door to bring medicines?

In the "Pharma Bot" theme, we attempt to address this issue by building autonomous delivery robots that "pick up" medicine packets from pharmacies and distribute them across our "Smart city" arena.

Working of the project :-

The pharma bot is designed to operate in a specific arena i.e. the basic layout of a smart city. It uses image processing using OpenCv for the process of line following. It also uses various algorithms such as Dijkstra's Algorithm to navigate around the given arena, deliver packages according to need. This whole process is shown simultaneously in a simulation of an actual smart city on the software CoppeliaSimEdu. The processes are performed using the microprocessor raspberryPi 3B+. We have used socket programming to establish the communication between the server (our computer), raspberryPi client and the simulation. The overhead camera captures the arena and sends the location of the bot to the simulation with the help of arUco marker.

2. This year Project Cell is developing a project called as smart door lock system. We developed an Automation System for automatic opening of doors and can view the person standing outside the door using an Android App.

3. We are also participating in the Kavach Hackathon.

This year we have worked on projects involving technologies like IoT, Machine Learning, namely

- Pani puri Vending Machine
- Coconut Harvester
- 2x2 Led cube

Last Note: We would like to thank our Mentor Prof. Vaibhav Godbole for his constant support, mentorship, and guidance throughout the year. We the current team are also thankful to the faculty and the HoD of the Electronics & Computer Science Department Dr. Sapna Prabhu for guiding us in a proper way.

ABHADHA

Team Abadha CRCE, put in place in year 2012 has been successfully forging ahead from the past decade. This year we have made a new Rollcage and also made new Arms for better control and stability. We have also been working hard to improve on a few small errors that were spotted last year. Also we have tried something new by inserting CVT (Control Variable Transmission) and we have successfully accomplished in inserting the CVT and also upgrading our vehicle. We have always consistently taken part in BAJA SAE INDIA competition and have always aced with flying colours. Last Year our Team was the only one Team round from Mumbai to qualify for the technical inspection round in competition.

We have successfully made our vehicle with determination and hard work. And we are looking up for the same in the upcoming years.

BetterStrongerFaster

MAVERICKS

Team Mavericks UAS is all about the development of drones and other Unmanned Aerial Systems or UAS. The team strives to work and develop efficient, cost-effective solutions for problem statements where drones are used. After few years of dormancy due to Covid-19, the team is all set to take-off once again. Established in 2015, the Legacy of Achievements by our talented senior team members are as follows:

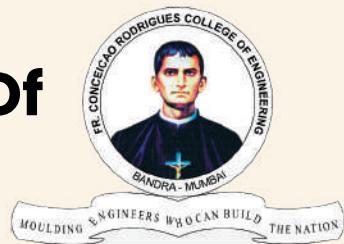
- Achieved 43rd overall rank in AUVSI SUAS1 2019
- Designed and fabricated a VTOL2 Aircraft
- Featured in the Bombay Times (7th June 2018) Newspaper Article
- The team participated and completed the obstacle course of OP-RAHAT3 2017 at IIT Bombay in 73 seconds.

Our Motto is "Flying to New Heights". Trying out new challenges, developing a problem-solving attitude is at the core of the team. Presently we are working on the following challenges:

1. SAE AeroTHON 2023: AeroTHON 2023 organised by, SAEINDIA4 Aerospace Forum is a competition for students with primary focus on developing design, build and piloting skills of UAS to prepare them for the emerging market. The team shall design a UAV5 that can carry a specified payload and deliver it to a target area by manual as well as autonomous operations.
2. Matlab MathWorks Minidrone Competition: Here the team is required to develop path planning, image processing, and control systems for a minidrone line follower in simulations.
3. ICUAS'23 UAV Competition: Organised by ICUAS6, In this challenge, the task of the UAV is to navigate an unknown 3D environment to inspect infrastructure and find defects. The Competition focuses on three aspects: 'Exploration' of bounded but unknown 3D space, 'Detection' of defects and reconstruction of their position, and 'Pose Estimation' that enables precise localization of defects. Working on a drone is particularly rewarding. It is our immense pleasure to have an opportunity to work on such a newly emerging and futuristic technology. UAVs have the potential to cater to a huge variety of applications. The team focuses on learning and solving problems in the best possible way, to contribute to technology and develop our own technical skills. Communication is key and working with a technical team will lead to the collective development and growth of its members. Team Mavericks UAS is built by a group of young and curious engineers from all the four departments of Fr. CRCE namely CS, AIDS, Mechanical and ECS. Here students contribute from their learnings of their respective department, as well as venture into the workings of tasks from other domains and try out new things that they find exciting. This exposure also makes them industry ready. We hope that we are successful in contributing to this technology and also in sparking curiosity among engineers, so that we can build innovative solutions together and fly to new heights!



Fr Conceicao Rodrigues College Of Engineering



EXAMINATION	RANK	STUDENT NAME
FINAL YEAR PRODUCTION	1st 2nd 3rd	DUBEY AMIT RADHESHYAM SHAH MEET JAYESH RATHOD YASH KIRIT
FINAL YEAR ELECTRONICS	1st 2nd 3rd	NAIR KAILAS NANDAKUMAR PATEL VIRAJ GOPA FERNANDES KRAIG KLEIN
FINAL YEAR COMPUTER	1st 2nd 3rd	MASCARENHAS NISHA N BISWAS SIMRAN AMIT IYER SAHANA S
FINAL YEAR INF.TECH	1st 2nd 3rd	JOSHI SOLANI KIRTINANDAN RANE SAMEEKSHA PRAVIN BABAR MAHESH DATTATRAYA



"The Curriculum must include basic arts, crafts, humanities, games, sports and fitness, languages, literature, culture, and values, in addition to science and mathematics, to develop all aspects and capabilities of learners; and make education more well-rounded, useful, and fulfilling to the learner."

National Education Policy-2020.

Founder of Technical Education Complex at Bandra, Rev. Fr. Conceicao Rodrigues believed that quality technical education can make India self-reliant and prosperous. Following his vision, Fr. Conceicao Rodrigues College of Engineering (CRCE) is dedicated to making a difference in Engineering education. Aptly formulated vision of the college 'Moulding Engineers who can build the Nation' is in line with the ambitious National Education Policy of Govt of India. In this context, CRCE strives to promote the student's holistic development by offering a platform for skill-based learning enhancement and by fostering hands-on learning.

The academic year 2022-23 started in July 2023. College started offering Honour and Minor Degree program from this academic year in seven domains namely Blockchain, Cyber Security, IoT, AI&ML, 3D Printing, Robotics and Data Science. No efforts were spared to ensure the holistic development of students by organizing cocurricular and extra-curricular activities along with regular academics. Student councils started organizing and participating events that focus on Innovation, Startup and Entrepreneurship.

- Institute Innovation council CRCE received 4 stars. We are in Top 15 among 394 colleges in Western Region.
- Ministry of Education innovation cell, selected Fr. CRCE to present, the institute Innovation and start-up action plan, in the IIC western region annual meet in the NISP.
- Placement offers for 2022-23 till March 2023:- 246 offers are received out of 253 interested students this amounts to 97% success rate. Max salary offered is 18 Lakhs while average salary is 8 Lakhs. Major recruiting companies are J P Morgan, Quantiphi, Deloitte, Carwale, Godrej, TCS, DirectI, UBS, Amazon, L&T, Reliance Jio, Reliance Industries, Nerolac, Oracle, Accenture, Cognizant, Capgemini, Dolat Capital etc.
- Internship – All final year students are doing internships at various companies. Many students across all other branches have received internship offers, some of them are with good stipend from companies like J. P. Morgan etc.
- Around 25% of Students opted for higher studies as their option and they started getting admits from premier institutions across the world.
- Final year pass percentage for Computer and IT is 100% while for Production and Mechanical is 99% for batch passed in May 2022.





- Total 06 research scholars have completed PhD and 02 submitted thesis.
- Total 30 faculty members are pursuing PhD from various research centres.
- Faculty members have published 45 Journal papers and 24 conference papers. Overall 69 papers are published by college faculty.
- Indian Patents: 3-Design Patents Granted and 5-Patents are published
- Dr. Jagruti Save received EduTech Leadership Award by The World Education Congress.
- The Institution of Engineers Council (IIIExCRCE) student chapter received Best Student Chapter award, Best Technical Event Award, Chairman's Special Award and Best Mentor Award at IIIE Belapur NHQ based on their performance in last 3 years among the IIIE Mumbai student chapters.
- Scholarships through the college (other than Govt. and private trusts) are offered by Blue Star Foundation, Catalyst and Nimaya. The Nimaya project has been training our girl students for the last two years. With the help of Nimaya, girls who had been part of this project have successfully secured jobs & internship opportunities.
- There are several new Academic partnerships are made this year. MoUs are signed with various organisations like Crypto University for Blockchain, S.P.I.T, Suven Technologies, Linux Professional Institute, Halp Technologies etc.
- Fr Conceicao Rodrigues College of Engineering is Nodal center for Indian Institute of Remote Sensing (IIRS)-Indian Space Research Organisation (ISRO) outreach program for online, offline & live interactive sessions offered by IIRS-ISRO Dehradun. There are many faculty members and students who have completed certificate courses under this initiative.
- College to conscious efforts to engage several renowned academicians for academic engagements. Dr. Jayanthi Murthy, President of Oregon State University, USA, His Excellency Mr. Yatsukata Fukahori, Consulate General of the Republic of Japan from the High Commission of Japan, Mumbai, Prof. Martin Saska, Head & Senior Researcher of Multi-robot Systems Group, Institute of Cybernetics, Faculty of Electrical Engineering from Czech Technical University at Prague Prof Bidanda Bopaya from University of Pittsburg USA, Dr. Sachin Pawaskar from University of Nebraska Omaha USA, Dr. S. S. Mantha Ex-chairman of AICTE etc, Ms. Shareen Kitterman, Embassy of USA, Ms. Mohini Palchawdhary from Quantiphi etc. interacted with us.
- Computer department organised FDP on Natural Language Processing and 5 student development programs.
- Many students and faculty have successfully completed NPTEL and other MOOC Courses. Two Full Day Training programs on Microsoft Azure was delivered by Ernst and Young in association with Microsoft in August and also on 'Microsoft Power Platforms' in March. More than 300 students are trained collectively in these two programs.



- Student chapters/councils which held prominent events in the college are ASME, ACM CRCE, CodeLabs, CSI, E-Cell, IEEE, IIIE, Mozilla Campus Club, NSS, Project Cell, Rotaract Club, Students Council, Abadha, Vaayushastra, CFR, Robocon, Mavericks, TEDx, IEEE-WIE, GDSC, GDA and HWAK-I. Flagship programs organised are CRMD, Synergy, Crescendo, TEDx, Euphoria, Sports events Athlos, Sports Day, Marathon, Project Competitions, Hackathons, Two weeks of First Year Induction Program, Annual Alumni Meet, Degree Certificate Distribution ceremony, Industrial Visits (AIPL Tech. Pvt. Ltd., ISRO exhibition centre at VJTI, SIFY technologies data centre, Railways workshop, PED division Godrej, JSW etc.).
- College organised seminars to spread the message of unity, peace, love, and happiness on International Yoga Day, World Peace Day, Teacher's Day, National Pollution Day, National Science Day, Unity day and World Environment Day, Constitution Day (Samvidhan Diwas) etc
- National Service Scheme (NSS) organised 35 programs in this academic year. To name a few are Blood Donation, Food distribution, Beach Clean-up, Bandra Fair, Animal Welfare, Aids awareness, organ donation, mental health seminar, Road safety by Mumbai police etc. Started collaboration with Afroz Shah Foundation which leads Beach cleaning activities in the country.
- Students are winners in various hackathons and competitions National level such as Smart India Hackathon, e-Yantra, TIAA Hackathon, NASA Space App International Challenge etc.
- Team Robocon successfully completed stage 1 of ABU Robocon 2022 competition with AIR 7 and in Robocon 2023 team got 96 points out of 100 in stage 1
- TEAM ABADHA: Fabricated the All Terrain Vehicle and their achievements of 2021-22 in terms of All India Ranking:
 - -Baja SAE India, Acceleration Performance: 1st, Brake Performance: 1st, Memory Challenge: 1st, Overall Rank: 15th
 - -ATVC 2021: Transmission Event: 1st, Overall Rank: 15 th
- Team Vaayushastra participated in SAE AeroDesign East in Lakeland, Florida, USA and secured the international ranking as: 10th in Design Report, 11th in Technical Presentation, 11th Overall ranking
- Rankings achieved by Team CRCE Formula Racing:
 - Pi-EV: Overall: 5th Rank, Engineering Design: 4th Rank, Software & Intelligence: 7th Rank, Management Strategy: 10th Rank, Procurement Strategy: 17th Rank
 - Formula Bharat 2023, Coimbatore : Overall: 7th Rank, Business Plan: 4th Rank, Engineering Design: 8th Rank, Cost and Manufacturing: 9th Rank
- Project 'DockiCraft' bagged the consolation prize at the Giant Meterwave Radio Telescope (GMRT) exhibition & competition on the occasion of GMRT Science Day 2023 held at Pune, Maharashtra.

Achievers Club



· Student from production department received certificates of appreciation & appointment from the Korean Culture & Information Service under the Ministry of Korean Culture, Sports & Tourism for promoting the Korean culture by being an intensive member for the year 2022 for the government portal Korea.net.

Team won 1st prize in national level Smart India Hackathon (SIH) organised at the nodal centre of Chandigarh Engineering College, Mohali (Punjab).

· Secured AIR 2 at eYantra Innovation Challenge organized by IIT Bombay.

· Best paper award & first prize in the First International Conference on Innovations in Science, Technology & Engineering (ICISET) 2021

· 1st position in event 'Our-research R-Act' organised by IES's Management college and research centre.

· Student Abacus 5th rank in Maharashtra.

· Students participated in sports many events and won various medals and prizes. Few examples are Gold Medal at the University of Mumbai Taekwondo martial arts game, Bronze medal in Taekwondo at Maharashtra State Olympic games 2022 – 2023 etc.

College is gearing up to implement autonomy and NEP to meet expectations of our education partners.

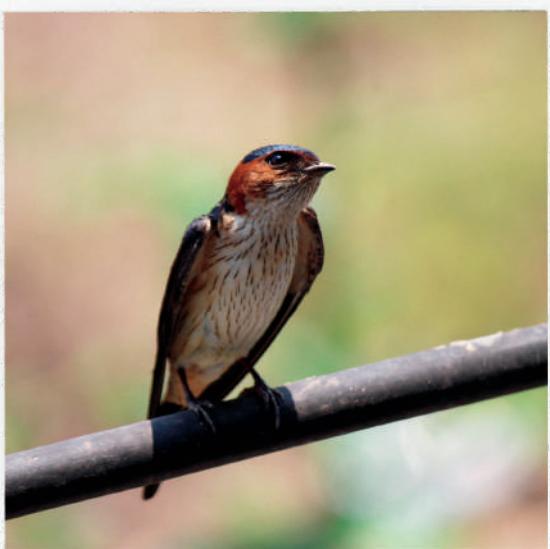


*Best All
Rounders*

1. Best All Rounder (Female Category) - Ms. Nicole Dias
(B.E. Computer Engineering)

1. Best All Rounder (Male Category) - Mr. Brycen Fernandes
(B.E. Electronics and Computer Science Engineering)

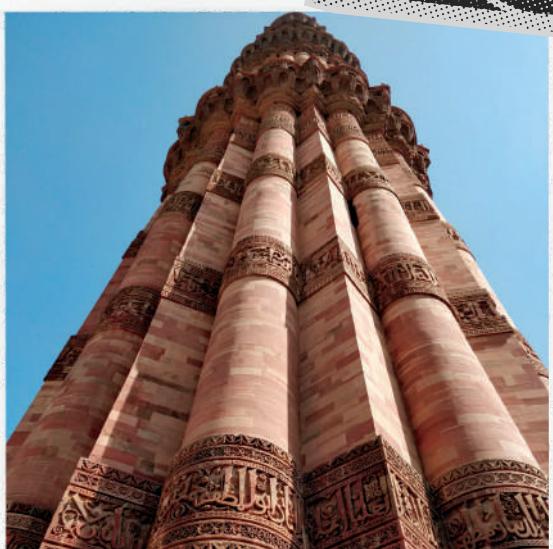
ART GALLERY



Shalaka Vengurlekar (TE ECS)



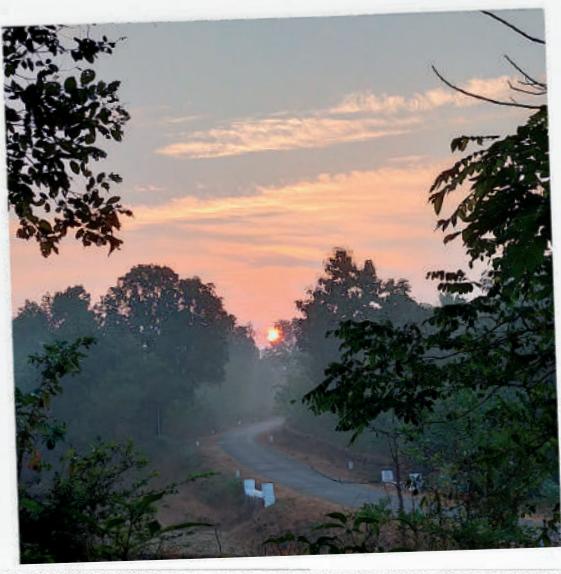
Fakhi Umair Mohd Shoaib(BE MECH)



Ameey Managute (TE AI&DS)



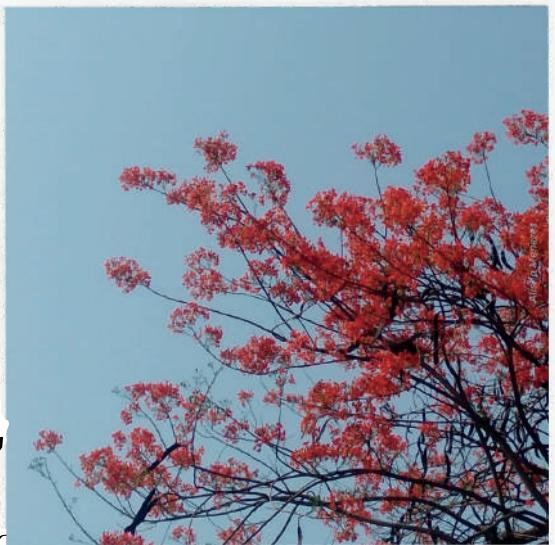
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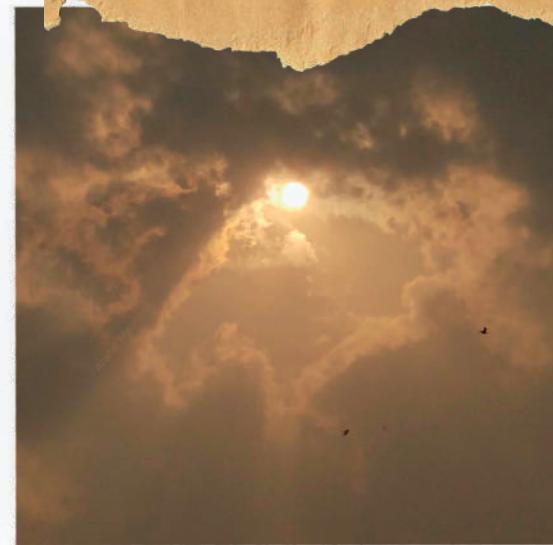
Ameey Managute (TE AI&DS)



Alisha Menezes (TE MECH)



Alisha Menezes (TE MECH)



Alisha Menezes (TE MECH)



Ameey Managute (TE AI&DS)



Pooja Jaya Banjan
(TE COMPS B)



Mahek Intwala (TE Comps A)

ART GALLERY



Pooja Jaya Banjan
(TE COMPS B)



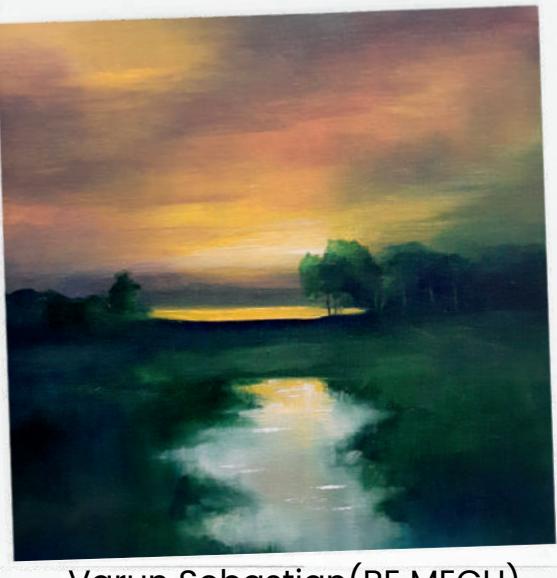
Amey Managute (TE AI&DS)



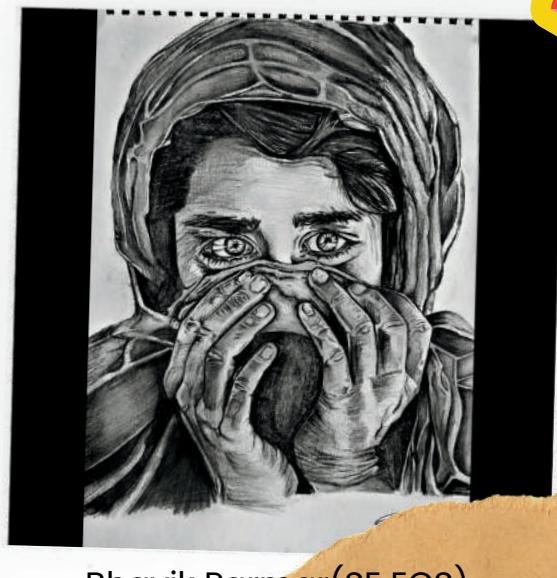
Amey Managute (TE AI&DS)



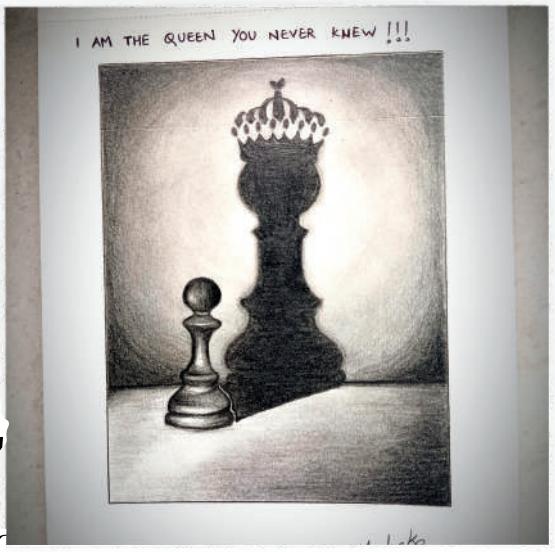
Varun Sebastian(BE MECH)



Varun Sebastian(BE MECH)



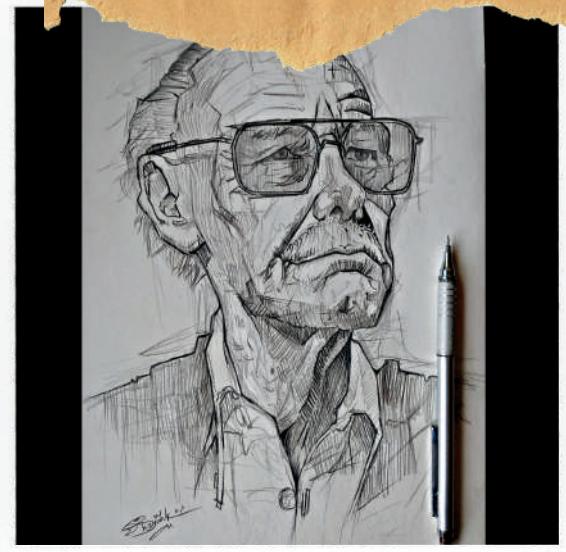
Bhavik Parmar(SE ECS)



Mahek Intwala (TE Comps A)



Alisha Menezes (TE MECH)



Bhavik Parmar(SE ECS)



Prof. M.V.B.Rao.



Fakhi Umair Mohd Shoaib(BE MECH)



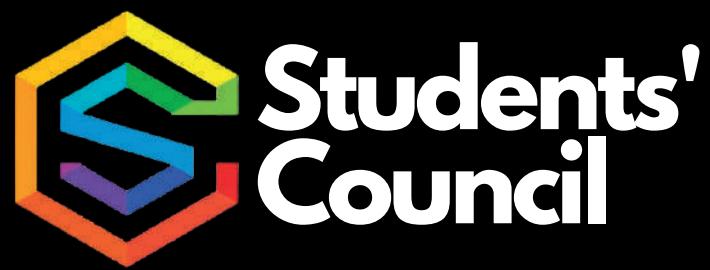
Alisha Menezes (TE MECH)

Teaching Staff



Non - Teaching Staff





2022-2023



*signing
off*