



BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY)
COLLEGE OF ENGINEERING, PUNE

bvucap

BHARTIYAM

ISSUE: XXXII

GENRE

2024



OUR VISION

To be World Class Institute for Social Transformation through Dynamic Education.

OUR MISSION

To provide quality technical education with advanced equipments qualified faculty members, infrastructure to meet needs of profession and society.

To provide an environment conducive to innovation, creativity research and entrepreneurial leadership:

To practice and promote professional ethics, transparency and accountability for social, community, economic and environmental conditions.

ACHIEVEMENTS & RANKINGS

- Programme Accredited by National Board of Accreditation (NBA), New Delhi.
- Ranked 131st at National level among Top 200 Private Engineering Colleges of India by NIRF-2022.
- Ranked 20th at National Level by AICTE-Internshala and 2nd in West Zone for Best Internship Record.
- Ranked among Top 50 Private Institutes of India by ATAL Ranking of Institutions on Innovation Achievements.
- Ranking Agencies such as India Today (18th in Overall Ranking & 5th in West Zone for Private Engineering Institute), Times i3RC Ranking (34th Rank), DATAQUEST (18th Rank) and Outlook (29th Rank) ranked this Institute among top 100 Engineering Colleges of India.
- Received a 3.5-star rating out of 5 from the Institution's Innovation Council (IIC5.0) for the Academic Year 2022-23.
- Institute has been selected for establishing MHRD- 'Institution Innovation Council (IIC)'.
- Received "Times Pune Mirror - Edu Excellence Award" under the category "Best Engineering college for Placement".
- Received "India's Best Engineering Institute 2023" by "Career 360" with AAAA rating.
- Certificate of excellence in reorganization of outstanding performance and premium quality work for Engineering institute of year by Navbharat Education award 2022.
- Awarded as a Platinum Category Institute in the All India Council for Technical Education (AICTE) - Confederation of Indian Industry (CII) survey 2019.
- Institute is listed as a part of AICTE-Distinguished Chair Professor Scheme (DCPs), DCP to be associated with the institutes for the purpose of providing online talk/ visits. Only 14 institutes are selected by AICTE for the same.



Hon'ble Dr. Patangrao Kadam
Founder Chancellor, Bharati Vidyapeeth, Pune

SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



FROM THE DESK OF THE CHANCELLOR



Dr. Shivajirao Kadam
*Chancellor,
BV(DU), Pune*

I am elated to know that our Bharati Vidyapeeth (Deemed to be University) College of Engineering at Pune is bringing out its annual college magazine, Genre 2k24. I congratulate the principal and her colleagues for the same.

The theme of this year, Samsara, is a unique concept and ought to leave an impact on the readers. Samsara is a philosophy that describes the endless process of life, death, reincarnation, and everything in between. It describes the cycle of our entire being, driven solely by our karma. It is quite commendable that such an interesting topic was chosen as the theme of this year's magazine. It will induce in viewers a sense of gratitude and humbleness for the lives we are leading. It also makes one reflect on the bigger picture of our lives and the actions that determine our ultimate fate. Surely, it is a promising concept to delve into.

My best wishes to Dr. Vidula Sohoni, her colleagues, and all those who helped this magazine come true. Also, a huge appreciation is felt for all the students and faculty members who took the liberty to pen down their thoughts and send them out for the world to consume.



SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



FROM THE DESK OF THE PRO VICE-CHANCELLOR



Dr. Vishwajit Kadam
*Secretary,
Bharati Vidyapeeth,
Pro Vice-Chancellor,
BV(DU), Pune*

It is an occasion of joy that *Genre 2k24*, the annual college magazine of the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, an indelible part of Bharati Vidyapeeth (Deemed to be University), Pune, has successfully unfurled into its 32nd edition in '*Genre 2k24*'. This year's magazine assimilates the timeless concept of '*Samsara: The Cycle of Life*'.

This year's theme rejuvenates the spark of curiosity in the students. Recognising the interconnectedness of all beings and the shared experiences of humanity would foster empathy and tolerance towards others, which is the moral duty of a human. Every individual's growth contributes to collective knowledge. The students of Bharati Vidyapeeth will prosper loud and ambient as the concept of '*Samsara*' imparts in their lives.

This year marks the fifth-year anniversary of our beloved founder, Dr. Patangrao Kadam Saheb. With sheer respect to him, I can say that the college has advanced and moved a step closer to achieving his dream of imparting technical proficiency in one's self along with the moral development of an individual.

I extend my congratulations to the editorial board for their ongoing dedication, which has resulted in another triumph for '*Genre 2024*'. This magazine stands as a testament to your unwavering commitment. My heartfelt best wishes go out to the entire team behind '*Genre 2k24*'.



SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



FROM THE DESK OF THE VICE-CHANCELLOR



**Dr. Vivek A. Saoji,
Vice-Chancellor,
BV(DU), Pune**

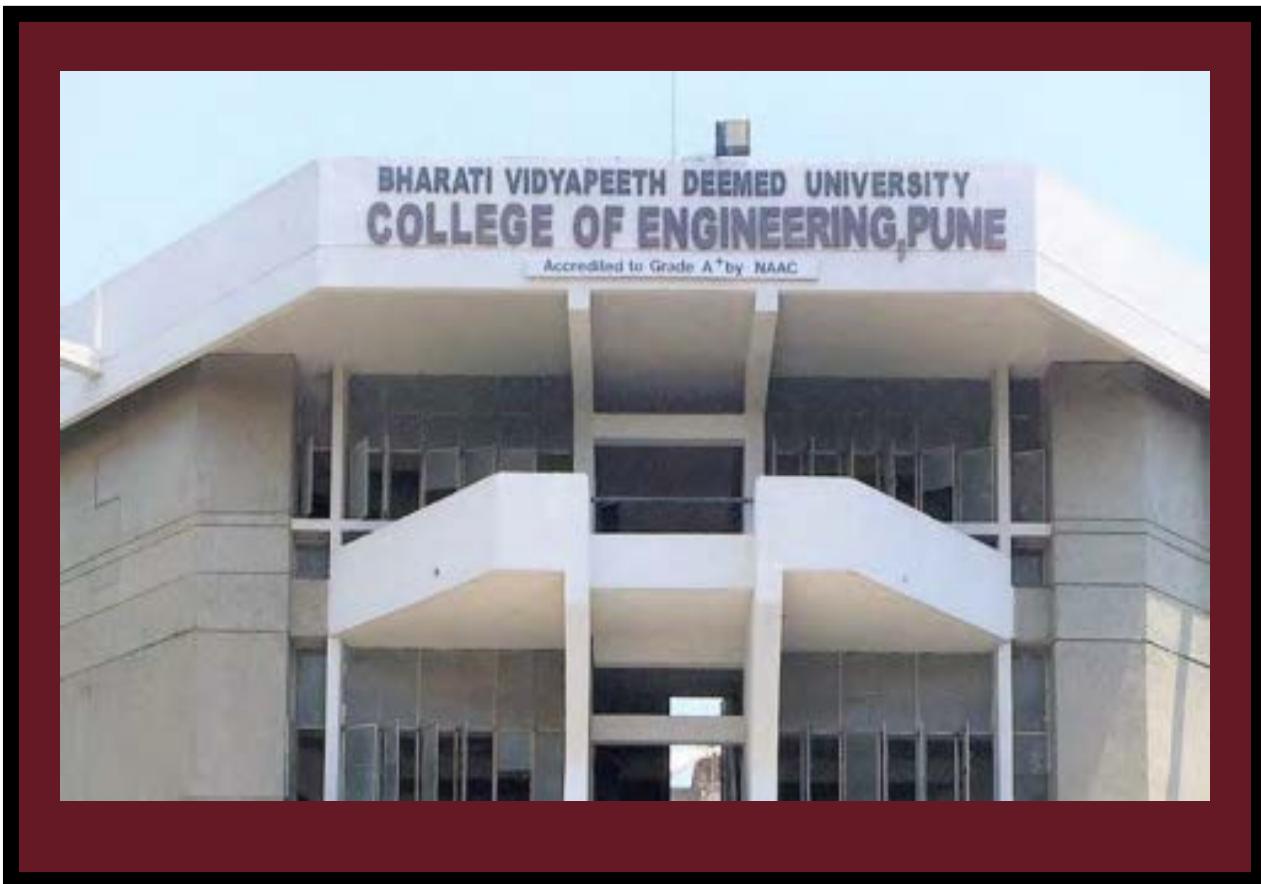
It is a matter of great pleasure that the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, a major unit of Bharati Vidyapeeth (Deemed to be University), Pune, is going to publicize *Genre 2k24*, the official annual magazine for its students. I am really delighted to know that this year's theme is *Samsara*. I am genuinely impressed with the performance and achievements of the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune. Ever since its foundation in 1983, the college has made an immense contribution to fulfill the words of our revered Founder-Chancellor, the late Dr. Patangrao Kadam Saheb, who envisioned an institute that could provide "Social Transformation through Dynamic Education." The college has proven a track record of molding excellent engineers in all fields, technical and non-technical, by organizing and conducting various curricular, co-curricular, and extra-curricular activities for its students.

This year is the 32nd edition of *Genre*, and the theme of this annual magazine, *Samsara*, reminds me to look back on my life in retrospection and admire the cyclicity it holds. It is a concept rooted in various Indian philosophies professing the cycle of birth, death, and rebirth, also known as the cycle of reincarnation. I believe that in *Samsara*, there is an emphasis on interconnectedness and the understanding that all aspects of life are intertwined. Similarly, in engineering, a systemic thinking approach recognizes the interconnected nature of components within a system. Engineers should strive for holistic solutions that consider the broader impact and relationships between various elements.

I am confident that the annual publication "*Genre 2k24*" by the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, will stand as a lasting source of inspiration for fellow engineering students. I extend my sincere congratulations to the faculty, students, and editorial board for their dedicated efforts in producing this yearly magazine.



SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



FROM THE DESK OF OUR PRINCIPAL



Dr. Vidula Sohoni,
Principal,
BV(DU)COE, Pune

I am thrilled to share with you the essence of Bhartiyam, our cherished annual techno-cultural fest, where we proudly showcase the talent, achievements, and brilliance of students. They strive to bring out the best in themselves in a plethora of domains, imbuing skills like leadership, teamwork, and creativity. The fact that what was once a small but enthusiastic initiative is now growing into one of India's most-awaited and wholesome college fest is very impressive in itself.

Within the pages of our beloved annual college magazine, "Genre 2k24" we capture the soul of our institution through a rich multitude of poems, articles, insightful perspectives from various organizations, and contributions from both students and faculty members. Every edition revolves around a different theme, making it intriguing and unique. The magazine is a perfect, well-compiled manifestation of the achievements of our students. I am excited to announce that "Genre 2k24" is back with a new and divergent vision.

This year's theme, Samsara: The Cyclicity of Existence, emphasises the interconnectivity of life. The engineering methodology is based on the ending of old ideas and fractured thinking while simultaneously giving birth to a newer avatar of the same ideas. Our institute always keeps on moving ahead and developing in aspects of engineering - like a wheel, it doesn't stop, but keeps progressing. Each year, the editorial board works with unparalleled zest and fervor to find a way to incorporate the thoughts of all its members. The fest and the college magazine have always complemented each other since their inception.

I would like to thank all the faculty members who have always worked hard and guided the students to bring out the best in them. My sincere gratitude to our students, the building blocks of this college, who have worked relentlessly to make the fest a huge success. With the combined efforts of the students and the faculty, I am sure that Bhartiyam 2k24 will take our institution to greater heights.



SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



FROM THE DESK OF OUR VICE PRINCIPAL



Dr. Sachin Chavan,
Vice Principal,
(Administration)
BV(DU)COE, Pune

It is a matter of great pride that our official college magazine is being published yet again. Aptly titled Samsara, a Sanskrit term, used to describe the cyclicity of life, this year's magazine captures the essence of the Samsara philosophy.

It is, therefore, a matter of immense joy that we're back with Bhartiayam yet again! Our techno-cultural fest focuses on the holistic development of the students, providing them with a platform like no other. I implore all students to take the initiative and grab this opportunity to shine that lies beyond fear and hesitation.

Bhartiyam has always been the platform for collaboration and team work. It is a festivity of unity where students from all the departments, and all the years, work together day and night to make the fest a huge success.

I congratulate the Editorial Board for bringing together this wonderful magazine and contributing to Bhartiayam. The relentless efforts put in by the editors, the writers, and the designers are commendable. Truly, you all are the pillars of our strong foundation. I wish you all the best in what life has to offer.



FROM THE DESK OF OUR VICE PRINCIPAL



Dr. Sunita Jadhav,
Vice Principal,
(Research & Accrediation)
BV(DU)COE, Pune

When it was informed to me that our college has taken the initiative to publish another edition of the annual magazine, Genre 2k24, I couldn't be prouder. The theme of this year is also thought-provoking for the readers.

Samsara being a term that explores the cyclicity of life. This can also be used to explain the transient nature of our lives, our desires, our thirst for materialism, and our discontent when it is not achieved.

We all have an aim in our lives, but what is our ultimate purpose? These are the thoughts that should humble us and instill in us a sense of gratitude. This year's theme tries to encompass the reality of our lives and teaches us to embrace our journey freely. It is a commendable concept and is appropriate for this year's edition, especially because of the relevance it holds in today's times as well as in our studies of engineering. A cycle of creation, evolution, and improvement is how technologies are deployed, and a mindset that all the young engineers in the making should imbibe.

My heartfelt appreciation goes to all the people who helped in this initiative: our writers, our designers, and our editors, and of course, all the lovely students of our college who joined hands with the faculty to make Bhartiyan such a successful event!



MESSAGE FROM THE CHIEF GUEST



Mr. Amit Ravankar,
*Global Head,
Business Development,
TATA Consultancy Services*

जातस्य हि धृवो मृत्युर्धृत्वं जन्म मृतस्य च।
तस्मादपरिहृयेऽर्थं न त्वं शोचितुमर्हसि॥

These are the words from our holy Bhagavad Gita teaching us about Samsara - death is certain for one who has been born, and rebirth is inevitable for one who has died and therefore, one should not lament over the inevitable. I am deeply inspired by the theme of this year's Bharatiyam and I am honoured to be invited. The beauty of this fest is admirable and is only credited to the hard work of the diligent students and the incredible faculty members. This year's magazine for Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune is the perfect culmination for when creativity intertwines with human values. I would like to congratulate the editorial board for doing an amazing job. Looking at the magazine filled with the visions of our future engineers for life and technology makes me feel happy and proud of our coming generation.

MESSAGE FROM THE GUEST OF HONOUR



Mrs. Jyoti Tilak ,
*Director,
ICFAI Business School*

Samsara- the cyclicity of life, is the driving force of our little universe, and navigating it is key to growth. I was delighted about the theme of Bharatiyam 2k24. Every bit of this fest depicts enthusiasm, dedication, and the hard work of the students along with the faculty members. The magazine for Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune seamlessly merges the philosophical and technical aspects of our lives. The editorial board has done an excellent job of designing a beautiful magazine. The ingenuity of Genre 2k24 is the outcome of the perfect blend of technologically forward ideas and creativity of the engineers. I congratulate the organizing committee for organizing such a wonderful event. The hard work surely paid off!



ABOUT BHARATI VIDYAPEETH UNIVERSITY

ABOUT UNIVERSITY

Bharati Vidyapeeth, Pune, was established in 1964 by Dr. Patangrao Kadam, a man from a humble background with abundant ambitions. What started off as a single college has now grown into a renowned educational group housing over 180 units, including 78 schools and 80 colleges.

Since the beginning, Bharati Vidyapeeth, Pune, has accomplished incredible progress in the realm of education. On April 26, 1996, it achieved the prestigious status of "Deemed to be University" by UGC and has since bagged the impressive rank of 68th by NIRF and an "A+" grade by NAAC. This recognition has allowed and motivated it to form more than 50 connections with reputed educational establishments, both nationally and internationally. It includes North Carolina A&T University (USA), the University of Cologne (Germany), and Liverpool Law School (UK).

Situated in Pune's Dhankawadi-Katraj locality, Bharati Vidyapeeth (Deemed to be University), Pune's main campus sprawls over 85 acres, including a total built-up area of 3,45,600 square feet. Encompassing a sports ground, 24 colleges across various disciplines, the flagship hospital, and other student facilities like hostels, canteens, a bank, etc. The self-sufficiency of this university is a guarantee.

In essence, Bharati Vidyapeeth, Pune, has transformed from a single institution to a leading educational force in India, providing diverse opportunities for academic excellence and fostering international connections.



AN INTRODUCTION TO OUR COLLEGE

Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, established by Dr. Patangrao Kadam in September 1983, has operated as a constituent unit of Bharati Vidyapeeth (Deemed to be University), Pune, since June 2000. Approved by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC), the college has achieved accreditation of A+ grade by the National Assessment and Accreditation Council (NAAC), and several of its courses have been accredited by the National Board of Accreditation (NBA).

Ranking remarkably on various lists, the college has bagged the 131st position amongst the Top 200 Private Engineering Colleges of India by NIRF-2022 and 2nd in West Zone for the Best Internship Record. It has even secured a position amongst the Top 50 Private Institutes of India by the ATAL Ranking of Institutions on Innovation Achievements and is ranked 18th in the overall ranking, 5th in the West Zone for Private Engineering Institutes by India Today, 34th by the Time i3RC ranking, 18th by DATAQUEST, and 29th by Outlook. Adding to the list of accomplishments, the college has also received a 3.5-star rating out of 5 from the Institution's Innovation Council (IIC 5.0) for the academic year 2022–23. In 2023, the college was awarded the "Times Pune Mirror-Edu Excellence Award" under the category "Best Engineering College for Placement" consecutively for the second year. Amongst recent achievements, the college was graded AAAA by Career 360 on their list of India's Best Engineering Institutes 2023.

The college offers a wide gamut of graduate, postgraduate, and doctoral specifications in the field of engineering. The college holds its calibre and stature to an elevated standard of education and holistic development and strives to persistently maintain them. The college houses 101 laboratories, 43 classrooms, and 21 tutorial rooms. A five-storey library stands adjacent to the college building, which incorporates a massive collection of more than 70,000 books, including 279 national and international journals. In the past three years, more than 900 books and 90 journals have been added to the existing collection. Alongside the physical library, the college facilitates a digital library with the membership of DELNET and the AICTE Consortium, providing access to over 2600 e-journals and more than 6 lakh individual documents compiling various subjects. Subscriptions to renowned academic journals and periodicals make more than 5,500 national and international journals available to students.



TRAINING & PLACEMENT DEPARTMENT



At the Training and Placement Department, they recognize “Samsaara” as a metaphor for the dynamic evolution of students into skilled professionals. Each encounter, each challenge, becomes a stepping stone in the journey towards personal and professional fulfillment.

The department strives hard to train and nurture the students with additional skills with a view to creating the right set of inputs needed for different industries. Thus, they attempt to satisfy the aspirations of the students to be placed in companies of good standing, thereby achieving a good reputation for the institution. They wish everyone a year filled with growth, success, and bound-less opportunities.

Prof. Dr. Pramod V. Londhe
Head,
Training and Placement Department

The Training and Placement Department at Bharati Vidyapeeth Deemed to be University, College of Engineering, Pune, helps students excel by offering top-notch placement opportunities and skill development programs. They build strong connections with leading companies across diverse industries, ensuring students get the best placements. Their core focus lies in enhancing communication, coordination, event management, leadership, and smooth placement execution.

Associated with companies like UBS, Trident Group, Amazon, HSBC, Alliance Bernstein, ICICI Lombard, Tata Communications, IBM, Accenture, JusPay, PhonePe, Minda Corporation, Mahindra & Mahindra, Mahindra Lifespaces, Aakash Byju's, Hitachi, Bristlecone, Ashok Leyland, and more, they guarantee students roles in diverse fields like engineering, management, and beyond. Salary packages range from ₹27 LPA to ₹6.5 LPA.

TRAINING & PLACEMENT DEPARTMENT

To prepare students, the department organizes training activities like mock interviews, aptitude tests, group discussions, and workshops on resume writing and communication skills. These activities help them hone their skills and personalities.

Furthermore, a unique collaboration with Japan offers a reciprocal exchange program with the Kanagawa Institute of Technology and Japanese language learning, opening doors to placements with renowned companies like Sony, Honda, and Panasonic.

Prof. Dr. Pramod Vilas Londhe, Head of the Department, has significantly strengthened industry-college interaction. His extensive experience has built the department's reputation for offering excellent placements.

Awards and recognition received by the department include:

Ranked 1st in Maharashtra (Private Engineering College Ranking) by IIRF in 2023–24.

Ranked 2nd in the West Zone (Private Engineering College Ranking) by IIRF in 2023–24.

Best Institute in Engineering for Placement by Pune Times Mirror for successively 2 years.

Ranked 9th in the T-School Employability Ranking 2022.

The placement record of last year was remarkable, with a 90% placement rate, with the highest package of 27 LPA by JusPay, 22 LPA by PhonePe, and 18 LPA by RT Camp. In the current year, 61 companies have visited our college, with the highest package of 18 LPA by RT Camp and 12.5 LPA by UBS.



NATIONAL SERVICE SCHEME



Achievements

Award won by NSS volunteers: National Integration Camp 2023 Bengaluru City University, NSS Cell, organized the National Integration Camp 2023 in Bengaluru. In this camp, 100 volunteers from all over India participated. Two volunteers, Ankit Kumar (Department of Computer Engineering) and Shivani (Department of Robotics and Automation) from the BVDUCOE Pune NSS team, got an opportunity to represent the Maharashtra team at integration camp Bengaluru. During camp activities, our college's NSS volunteer, Shivani performed a dance to a Marathi song, representing the culture of Maharashtra, and she won the 3rd prize in the solo dance competition, while Ankit Kumar and his team secured the 2nd prize in drama.

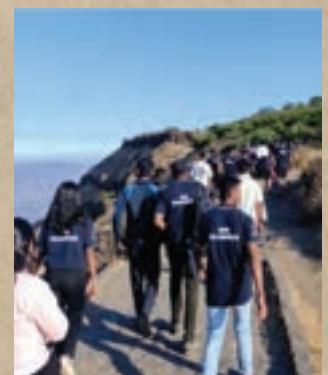
NSS regular activities encompass a wide range of community service initiatives, including awareness campaigns, cleanliness drives, blood donation camps, tree planting, health and hygiene programs, and more. These activities aim to address social issues, create awareness, and contribute to community development. NSS volunteers often engage in educational activities such as teaching underprivileged children, organizing literacy campaigns, providing career guidance, conducting workshops on various subjects, and promoting digital literacy. These initiatives focus on empowering individuals through education and skill development.

The National Service Scheme of Bharati Vidyapeeth, deemed to be University College of Engineering, Pune, organized the rally within the city on behalf of Amrit Mahotsav of Independence. All volunteers celebrated Independence Day by presenting our national flag to all the faculty members. The National Service Scheme of Bharati Vidyapeeth, deemed to be University College of Engineering, Pune, had organized the 'PANCH PRAN PLEDGE' and Rally. More than 90 volunteers were actively involved in the event; they raised a slogan that showed their patriotism and their love for their motherland, India. Most of the volunteers waved the flag proudly during the rally.

NATIONAL SERVICE SCHEME

NSS Winter Camp

NSS Winter Camps provide a platform for NSS volunteers to come together and engage in various team-building activities. These camps encourage participants to develop leadership qualities, foster cooperation, and enhance their interpersonal skills. Winter camps often bring together volunteers from different regions, backgrounds, and cultures. This provides an opportunity for cultural exchange, fosters mutual understanding and respect, and promotes national integration. Winter camps may include workshops, training sessions, and seminars on various subjects such as social issues, community development, environmental conservation, disaster management, health awareness, and more. Such specialized training equips volunteers with the knowledge and skills to tackle societal challenges effectively.



INSTITUTION'S INNOVATION COUNCIL

The Institutions Innovation Council (IIC) is an initiative by the Ministry of Education, Government of India, aimed at fostering innovation and entrepreneurship among students in higher education institutions. The IIC acts as a facilitator and promoter of innovation and startup culture within colleges and universities across the country. The council aims to bridge the gap between academia and industry by promoting collaboration and knowledge exchange.

Some of the key functionalities

Promoting innovation: The IIC encourages students to come up with innovative ideas and provides them with the necessary support and resources to turn those ideas into reality. It organizes various innovation challenges, hackathons, and competitions to foster creativity and problem-solving skills among students.

Incubation support: The IIC assists students in incubating their startups by providing mentorship, guidance, and access to infrastructure facilities. It helps students to develop business plans, secure fundings, and connect with industry experts and investors.

Skill development: The IIC conducts workshops, seminars, and training programs to enhance the entrepreneurial and technical skills of students. It focuses on areas such as design thinking, product development, intellectual property rights, marketing, and finance.

Networking and collaboration: The IIC facilitates networking opportunities for students by organizing industry visits, interaction sessions with successful entrepreneurs, and startup showcases. It also encourages collaboration between students, faculty, and industry professionals to foster a culture of innovation and entrepreneurship.

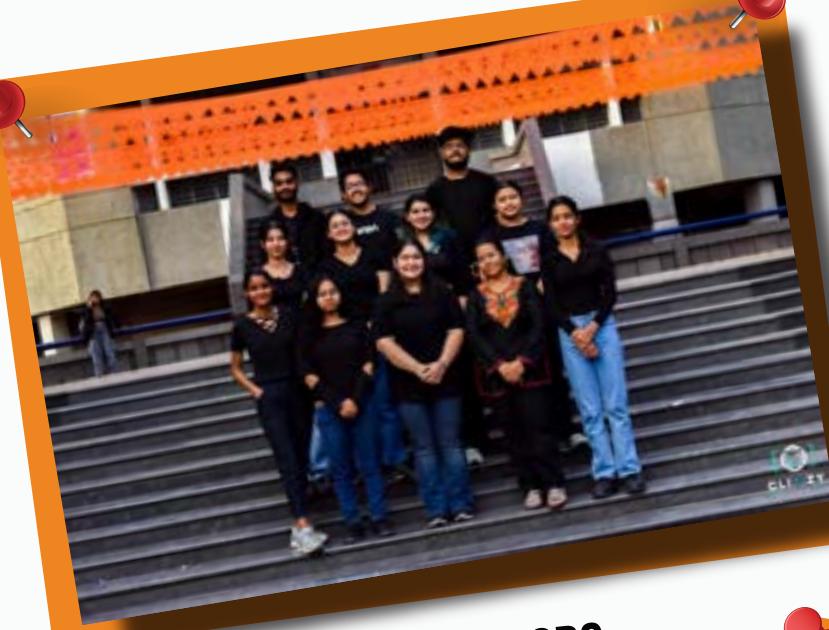
Policy advocacy: The IIC works closely with the government and policy-making bodies to advocate for policies that promote innovation and entrepreneurship in higher education institutions. It provides valuable inputs and recommendations to shape policies related to startups, incubation centres, and innovation ecosystems.

Overall, the Institutions Innovation Council plays a crucial role in nurturing a culture of innovation and entrepreneurship among students. It provides a platform for students to explore their creative potential, develop entrepreneurial skills, and contribute to the growth and development of the nation.



THE EDITORIAL BOARD





SENIOR EDITORS



DESIGNERS



JUNIOR EDITORS

EDITOR IN CHIEF



Nandani Raizada
Editor In Chief
Genre 2024

As I sit down to pen my testimonial, a flurry of thoughts creates chaos in my mind - the weight of words hangs heavy, even for the practised hand of the Editor-in-Chief. So, all I can think of is how fortunate I am to have such a lovely and talented team, who've toiled day and night to make this magazine a success. To me, Genre 2k24 is not just a college magazine, but a mosaic of ink and pixels, marked by our collective experiences, triumphs, and voices captured within its pages.

Standing at the cusp of graduation, it strikes me that the B.Tech etched on my degree doesn't do justice to the knowledge I've gained here. Beyond all the tinkering with breadboards and the late night coding, I got the chance to explore my creative side and flourish in it, with my greatest accomplishment yet being elected for this post. I've always had a flair for language, and it has only blossomed further while working for the magazine. The meticulous process of crafting each page has imparted valuable takeaways that resonate deeper than any textbook chapter, giving me learnings to carry far beyond graduation. It is with this spirit that I proudly say, I'm not just an engineer-in-the-making, but much more - a leader, a writer, and, above all, a creative spirit.

To my dear readers who joined this college with the noble ambition of becoming worthy engineers, don't let that be your limit. I hope the vividness and vastness of Genre 2k24 inspire you to grow into a multidimensional being.

EDITOR IN CHIEF



Subhashish Biswas
Editor In Chief
Genre 2024

As I walk away from the Editor-in-Chief's chair for the last time, a whirlwind of memories flashes before me: the all-nighters before the deadline, brainstorming sessions, the hours spent into proofreading and editing every submission. It was truly a painstaking yet memorable journey of translating our thoughts into words and seeing them bloom on the pages of *Genre 2k24* and all of it was fueled by the infectious enthusiasm and support of the editorial board team and chai. Together, we poured our hearts into this magazine, not just for the sake of it, but to make a difference - to ignite that zeal in our readers. From initial concept discussions to the final touches, every step required a level of precision and dedication that demanded the best of us. There were times when the task seemed daunting, yet it was our passion and commitment that turned challenges into stepping stones, leading us to create something we all can be truly proud of.

We didn't just churn out pages; we created a platform for diverse voices, sparked conversations, and roused emotions. It wasn't always smooth sailing, but looking back, the challenges taught me more than any course taught in a classroom. I learned resilience, the power of collaboration, and the joy of seeing an idea transform into something impactful.

To my amazing team, thank you for this unforgettable journey. The memories made and the friendships forged will forever be engraved in my heart. And to the next generation of *Genre 2k24* creators, remember, this isn't just a magazine; it's your voice, your passion, your story to tell. Go forth, be bold, and create something magical!

In closing, I want to express my deepest appreciation to everyone who has been a part of this journey. Here's to all the late nights, the laughs, the challenges, and the triumphs. Here's to us, and here's to the upcoming college fest, 'Bhartiyam'.

DESIGNERS' PHILOSOPHY



Kawaljeet Singh
*Designing Head
Genre 2024*

As Head Designer of our esteemed college magazine, I pause now to look back on the year that we've passed this year in this unique journey. With the Samsara theme at the heart of our publication, our design ethos has developed to represent, almost not the style, but the very being of this profound concept. As is, samsara in the elemental path, it means cycle of life, death, and rebirth—a theme that truly resonates through the halls of academia, where ideas are born, nurtured, and then set free to make their own mark on the world.

Ours is not just a magazine of conglomeration of sections and articles for this year; it is a tapestry of thoughts, cultures, and innovations. This tapestry has been woven with great inspiration drawn from four outstanding personalities - Ellen Barry for the English Section, Hazari Prasad Dwivedi for the Hindi Section, V S Khandekar for the Marathi Section, and Sam Altman for the Technical Section. Each of these luminaries has made a great contribution in their respective fields and has had a great impact in the magazine, generally charting the visual and thematic narrative of our magazine.

So, with a larger and more diverse designing team this year, we had that more chances to incorporate a multitude of perspectives and skills. In this way, our variety in this team mirrors the variety of life, itself making it possible not only to originate the magazine in its different parts but also to transform it into a real live cycle through words, colors, and images.

In fact, the process of making this magazine has been in itself the very reflection of the theme it embodies. It has been a continuous process of learning, adapting, and evolution—a perfect embodiment of the Samsara in our creative endeavor.

A RENDEZVOUS WITH THE PRINCIPAL

1. Our theme this year is “Samsara”, a Pali/Sanskrit word that can be roughly translated to cyclicity of life or rebirth. What is your take on the theme for this year?

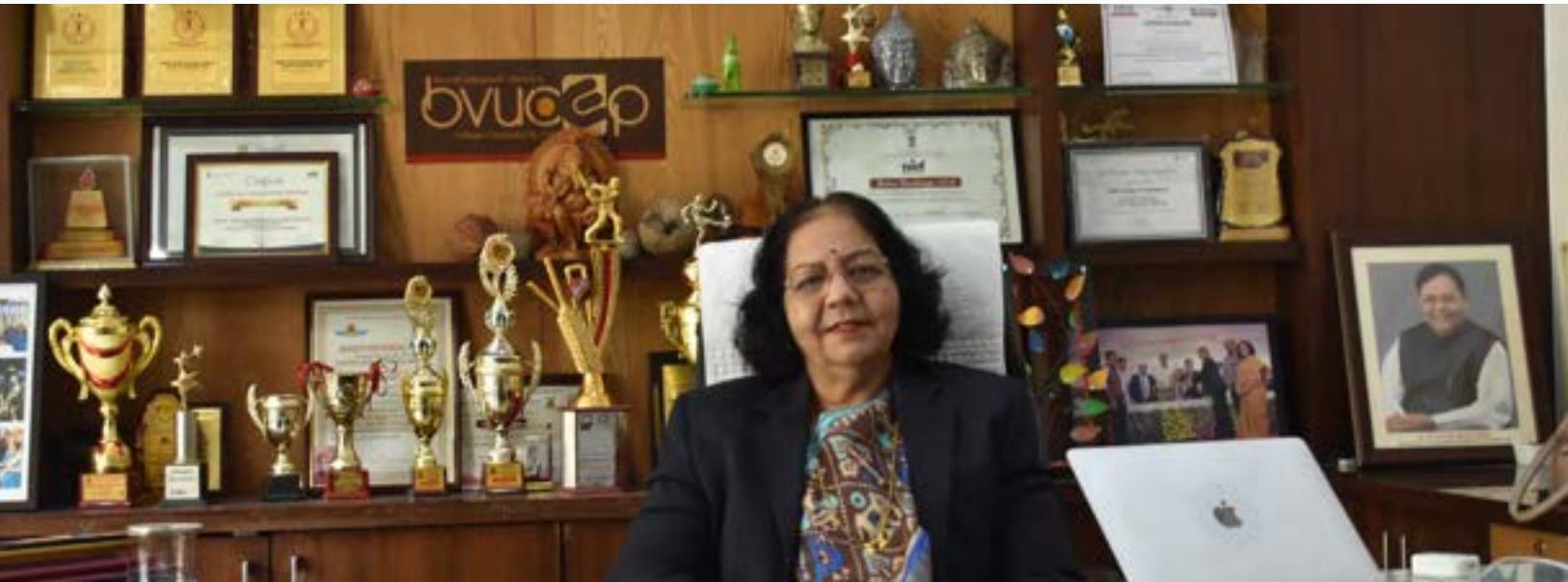
Ans. In a simpler sense, Samsara is a theme that indicates progression, or, in other words, improvement. The theme suggests that we must focus on improving throughout our lives and keep on progressing in a cyclical manner. Life isn't something that happens to us, it's what we make of it and that's what matters. So, we shouldn't find comfort in being stagnant. This is the gist of the theme that we are taking on and the mindset that we are trying to inculcate this year for Bharatiyam 2024.

2. Owing to the unique nature of the theme, we wanted to know how can we incorporate it with our curriculum?

Ans. I'm glad to let you know that, as we are part of a deemed university, we have the privilege to change our curriculum as and when required. As per the needs of the industries, we are changing the curriculum every four years, and accordingly, even this year we have changed the curriculum. We have implemented the new education policy for the new batch. As all of us are aware, a new buzzword has entered the scene: AI. Keeping up with the trends of this industry, we have introduced minor courses related to AI and DS in our curriculum. In that sense, we are already implementing a cyclic change, rather, a cyclic progress in our curriculum.

3. What are your views on the quote “Books are your best friends.”?

Ans. Books should definitely be your best friends, not only for students but also for everyone else. Every person should read books of some kind or the other. They're an enormous help in personality development and keep you updated on the latest thing - they make you think. That is why there is a proverb in Marathi, “prasangi akhandit vachit jave”, which translates to “Keep on reading always.”



4. Since we are talking about the cyclic nature of human years, what part of your life had the most impact on yourself as a person?

Ans. Two moments come to my mind. I would say the first inciting incidence that has had an impact on my personality was when I got the gold medal in my final year. It changed my entire career, boosting my confidence and shaping my personal development. The next pivotal moment was when I started working here. As a woman, it was very difficult to manage my family responsibilities alongside my career. Learning how to tackle both at the same time taught me an important lesson of balance, which has greatly helped me grow in all aspects.

5. This generation is heavily influenced by movies. Which movie left a significant impact on you?

Ans. There are quite a few movies that have impacted my mentality. The first one is Lagaan. What I derive from it is a lesson on management - if you have proper management, you emerge as the winner. Another movie that I liked was Taare Zameen Par, because it taught us the importance of individuality, and as an educator, it taught me to never compare one student with another. There are two more movies that I'd like to mention that have left an indelible impact on me - Zindagi Na Milegi Dobars and Oppenheimer. The former emphasises the importance of living life to the fullest, and the latter is about a scientific genius, which is inspiring to me, as an engineer.

6. With emerging technologies such as AI and ML, what steps is the college taking to incorporate these concepts in the curriculum to better prepare the students for the job market?

Ans. Our college is much aware about the emerging technologies in the industry. The first step the college has taken is signing an MOU (Memorandum of Understanding) with CDAC. Following this, CDAC is training our faculty members as well as our students, in AI and related fields like AR/VR. About 25 faculty members have already received the training and several of them have been awarded the gold or silver condition. Adding to that, more than 500 students have registered for such courses and more than 30 students have received the certification courses in AR, VR as well as AI from CDAC. Besides this, as I have previously mentioned, changes have been implemented in our curriculum for all the to incorporate AI and related skills. This way, we are keeping ourselves as well as our students updated.

7. Bharatiyam is back and constantly evolving, so what improvements do you see the in festin the next five years?

Ans. As you just said, Bharatiyam is evolving every year. In the next five years, the students will comprise of an even more tech-savvy generation. What I can foresee is that Bharatiyam will be more advanced which more technical aspects to it. The technical games and events that we see now will probably be a more advanced application of AR/VR. If you notice, the number of technical events involving AI this year is much more than last year. Similarly, five years down the line, I see the events keeping up with the trends in the industry. I feel that more people from the industry will be getting involved in Bharatiyam .



8. What flaws do you see in our generation?

Ans. This generation is very advanced and tech savvy. In some ways, they are more self-sufficient than their predecessors, but at the same time, it is very much necessary that they remain grounded and disciplined. I see students now a days struggle with punctuality and impatience, which is something they ought to work upon. The patience required to listen to others, to sit at a place and attend long lectures, and to solve lengthy problems too, is vital to be a successful engineer.

9. As a head of such a prestigious institution, how do you manage to keep your team at the best of their capacity?

Ans. I have a very big team. Our college is a big institute and a part of an even bigger educational group. Here, we have more than 170 teaching faculty members and more than 150 non-teaching faculty members. It certainly is difficult to get the work done from such a big team, but I believe in working in pleasure rather than working in pressure. As a leader, if you are able to impart pleasure in the form or praise or independence, it helps in employee satisfaction and keeps the mood light. When you allow your subordinates to take charge of things, they perform on their own and as a result, the entire institute progresses. This is my policy and that has done a good job keeping all the people working in this institute satisfied.

10. What does the moto of this college “social transformation through dynamic education” mean to you?

Ans. Social transformation through dynamic education is our motto. It was defined by our founder chancellor, Dr. Patang Rao Kadam sir. This college is akin to a temple of education and the knowledge we impart is dynamic. Here, we believe in not just educating our students but also teaching them how to wield this knowledge in a way that helps in the transformation of the society for the better. Keeping in line with our beliefs, we are conducting various events where our students get the chance to interact with the rest of society beyond this college. To give you gist of it, our motto is to work for the society via our students who are educated dynamically.

Thank you! Here's wishing you all the best for Bharatiyam 2024.

My special message for Bharatiyam 2024, directed to all the students who've helped in making this fest a success is: Enjoy this event thoroughly. You're standing a crucial point in the curve of your career, and this realization is surely daunting. So make some good memories here alongside your preparation for the future. Take some load off your shoulders and have a blast!



ENGLISH

"Every great story seems to have a ticking clock in it. You've got to tell people what they need to know to care about it, and you've got to keep them reading until they find out what happens next."

*~ Ellen Barry
Journalist*



ELLEN BARRY

Ellen Barry is an accomplished American journalist renowned for her insightful and comprehensive coverage of international affairs, social issues, and human rights. Throughout her career, she has made significant contributions as a reporter for The New York Times, where she has tackled a diverse array of topics with depth and precision.

Barry's reporting often focuses on complex geopolitical landscapes, with a particular emphasis on Russia and its evolving political and social dynamics under leaders such as Vladimir Putin. Her work reflects a deep commitment to uncovering the truth and shedding light on critical issues affecting communities around the world.

Notably, Barry was awarded the Pulitzer Prize for International Reporting in 2016 for her exceptional journalism, which provided invaluable insights into Russia's transformations and challenges. Her dedication to investigative reporting and her ability to offer nuanced perspectives make her a respected figure in the field of journalism.

While my information is current as of January 2022, it's advisable to consult recent sources for any updates on Ellen Barry's career and contributions to journalism.

SHADES OF FATE

In the panorama of barren landscape, I roam,
Relentlessly in search of an interim home
Tired from the scorching midday heat,
Tranquilly wrestling to stay on my feet.

To my solace, far in the lifeless dessert
I see a vibrant, independent tree,
Strapping and hefty, standing with assert, Seemingly
in glee.

I reconsider its sturdiness in my wavering mind, The
longer I glare my thoughts begin to unwind.

'Is it sturdy owing to its independence?
Or is it sturdy owing to its independence?'

The former assumes the tree to be free,
Spirited and soaring limitlessly,
Unbounded from his flora mates, on a lifetime's spree,
No weeds or molds intruding unintendedly.

The latter doubts the vibrant facade,
Is it a splendid trait?
Or, compensating the mate's dormant aid,
A veil instate?

Flattered by an airy nudge,
The scenery to the left makes my attention budge.

Green lively bushes, shrubs, weeds, and mold,
Coexisting prosperously with an intertwined hold,
Centring it is a waterhole,
This mere vision consoles my soul.

As I stride in beeline of my quench,
Quarries make my thoughts drench.

Is my destiny a surreal boom?
Or a mirage concealing the disheartening gloom?

Weighing the options, fidgeting my mind,
My thoughts begin to unwind.

Navya Sharma
Department of Robotics & Automation
Semester 2

Designed By: Aastha Gupta

Red Mustang

Rishi's day in Ottawa had a merry beginning. He had recently shifted from India to Canada, which imparted a significant change in his lifestyle. He embraced it with zeal, excited for new opportunities and experiences. With a good job in hand and a good lifestyle, he did not regret his decision to move to Canada.

Rishi, a person with a great passion for cars, gifted himself a "Red Mustang" which was not just meant for his transportation; it was a luxury he had craved since his childhood. The sleek attention grabber commanded attention wherever it went. Rishi was quite proud of his extravagant spending.

In his mundane daily schedule, he found solace in his rides to work. The early morning commutes when the sun bestows its radiant shine. These were the moments of peace before he pushed himself into the busy work schedule.

However, one fateful morning, the route that he usually used to commute by was disrupted by traffic, forcing him to follow another route that the GPS suggested. The suggested route detracted from his regular path and went through a township.

Rishi, devoid of options, took the route. As he entered the town, he was enthralled by the picturesque charm and pleasant ambience of houses adorned with colourful facades and manicured lawns. Serendipity in the town was unmatched. But something felt off; the silence, the town devoid of any signs of life, sent shivers down Rishi's spine, but he was curious more than he was spooked.

The next day, Rishi, not devoid of options, still chose the route that went through the idyllic town, as the serenity in the town enticed him. As he entered the town, it was the first time he saw her, standing at the window of a house. Her appearance was eccentric, captivating, tough, and unsettling. Dressed in a worn peach night suit, her unkemptness clashed with entralling splendour, leaving Rishi captivated. From that moment on, the town became an indelible part of his commute as he was drawn towards the enigmatic maiden just like a moth to a flame.



But the naive vision of Rishi ignored all the unusualness there was. Her stoic demeanour, together with her unchanging routine, hinted at a deeper mystery waiting to be unfurled. Yet with each passing day, Rishi's fascination only grew, blinding him to the warning signs that something was amiss.

As the months went by, Rishi's infatuation with the girl consumed him, overshadowing his once-vibrant life. His neglect of basic needs and responsibilities went unnoticed until a concerned cousin intervened, urging him to seek solace in familiar surroundings back home in India. But Rishi's mind was clouded by her thoughts, unable to comprehend the gravity of his situation. It wasn't until the day the girl vanished from her window that the moment peaked Rishi's curiosity. He decided to intervene in the situation; he parked his ride, and approached the house. He discovered that the girl was in a completely different location today, on the rooftop of the house. As he prepared to run to rescue her, she jumped off and fell lifelessly to the ground. Her lifeless body outside her house shattered the illusion he had constructed in his mind, plunging him into a downward spiral of despair. The once idyllic town now felt suffocating, its silence a constant reminder of the tragedy that had unfolded.

Haunted by memories of the girl and plagued by hallucinations, Rishi's grip on reality began to slip. His days blurred into nights, his once-vibrant spirit dimming with each passing moment. Losing his job was just the final blow, a harsh reality check that left him adrift in a sea of uncertainty.

Rishi woke up one day with no sense of time and himself either. Acting upon an impulsive thought, he woke up, took the keys to his car, and drove to the town again. Still silent and lost in the abyss of trauma. The house that the girl lived in still remained devoid of any actions and unscathed by the wrath of time. He parked his car again and aggressively advanced towards the house. He discovered that the door was already open, he stepped into the house with no second thoughts and without observing anything, and climbed up the stairs. There he saw the room where the girl used to look out from. He marched into the room. The only thing he noticed there was the girl's dusty peach night suit, it was the only thing which was affected by the time. He picked it up and smelled it vigorously. He put the night suit on, and as if possessed, he stared out of the window, like the girl he had been captivated by.

A "Red Mustang" approached, and its driver, seemingly familiar with Rishi's ritual, offered a warm smile. However, Rishi who was now impersonating the girl remained an impassive, a haunting figure in the window, a spectral echo of the girl who had forever altered the course of his life.

Soumya Suru
 Semester 2
Department of Robotics & Automation
 Designed By: Manika Jain



The Silence she speak

In the ocean of diverse expressions,
Or in the turbulent seismic waves,
In the hustle of hounds,
Or in the Middle East battle grounds.
Something that calms me is "the silence she speaks."

In the rosy sunrise,
Or in the orange sunsets,
In the brighter daylights,
Or in the cozy candle nights.
Something that delights me is "the silence she speaks."

In all her blues,
In her fatal hues,
In her eyes brimming with tears,
And even in her greatest fears,
Something that haunts me is "the silence she speaks."

In the voiceless, she conveys,
In the stillness, her emotion sways,
In her eyes a serene melody,
Echoing through ears, a quiet parody,
Something that binds me is "the silence she speaks."

Sitting under the stars adorning the night sky,
Tarnished but grand as a lunar night,
I look upon her face,
A sonnet that says
Something that gleams in my eyes is "the silence she speaks."

Suffered from silence, as she couldn't talk,
Deadly as a cipher, her body could endure,
Death knocks through her platter, with a deadly note,
Goodbyes were the letters those pages could abide,
With the passing chapters, her hands I hold yet I wish for "the silence she speaks"



Without her essence four months have waned,
With her memories on my heart deeply stained,
But somewhere her presence echoes around me,
Intensifying the flames of solitude, something bellows around me.
With a heavy heart, today, I miss “the silence she speaks.”

With twilight deepening into the night beneath,
With agitation and unease growing underneath,
I wish for the warmth that she beholds,
I wish for the charm that she upholds,
With eyes wide open, ears bleeding for “the silence she speaks.”

Silence is a weapon,
Silence is a beacon,
Silence is hope,
Silence is scope,
Silence is interaction,
Silence is introspection,
Silence is quiet, but a loud communication.

All you need is a gentle ear to hear “the silence she speaks.”

Atul Raj
Semester 4
Department of Computer Science Engineering

Designed By: Aastha Gupta

USA : A FRIEND OR FOE

"It may be dangerous to be America's enemy, but to be America's friend is fatal."

~ Henry Kissinger

The U.S.A., a military and economic superpower, is a detrimental and deterministic country in today's changing world order. A country with such soft power can choke the economies of any rich and growing country, like Venezuela, Russia, Iran, etc. It has such a military dominance that has the potential to change the world order, and its military is like the carrom pieces spread over the board from Djibouti to Diego Garcia to the Middle East to Japan and all across the globe, playing a prominent role in each of the major conflicts. And that's where the leaders of the U.S.A. make decisions to make their

When the Russians started their special operation in Ukraine because of the increasing number of NATO countries near the border, the western nation, under the influence of America, cut off ties with Russia, imposed sanctions, and fueled the war by supporting Ukraine militarily, which directly profited the defence exports of the States. They also sold oil to Europe at a higher cost due to sanctions on Russia, and the U.S.A. became the

After the 9/11 attack, the U.S. decided to kill the perpetrators, and then, in search of the same, they stationed their troops in Afghanistan from 3,000 to 90,000 strength, where they also trained the Afghan army, employed Afghans as translators with the promise of U.S. visas, and received a handful of Afghan personnel. When they left the country, the Taliban became stronger, and the leftover arms of the U.S. acted as a catalyst.

During the Cold War era, the U.S. had neutral ties with Syria, but eventually, due to the radicalised leadership and increasing ISIS influence, America broke relations and thwarted the country with the potential threat regarding the spread of terrorism and secretive air strikes in many cities, which led to the casualties of innocents for which the investigation never saw daylight. Moreover, the States claimed themselves to be a guardian of humanity against the rise of "terrorism."

The U.S. always utilised the strategic location of Pakistan, which is the gateway to Afghanistan, and the sole country, which can be allure with American dollars in South Asia. Pakistan has always gotten unprecedented support from the U.S., be it the 7th fleet in the Indo-Pak War of 1971, military aid for F-16, or approval of loans from the IMF and World Bank, even if Pakistan channelled the funds to terrorism in Afghanistan, Iran, and India, whereas the U.S. blocked the funds for helping Sri Lanka in the crisis by giving them just \$6 million as aid.

Though the U.S.A. has a plethora of flaws in its own system, it tries to assert its soft power over growing nations. For example, they have a flawed and easy-to-get licencing policy that is accessible to their citizens. They want to make some specific nations into a 'vassal state' to utilise other nations for their personal gains by alluring them with their money or fear of muscle power.

In the past few decades, India-US ties have touched great heights by becoming the largest trading partner and improving strategic defence ties by collaborating in building a robust defence infrastructure in India, which is Atmanirbharta. Also, America is the largest trading partner and economy with which we have the edge in trade surplus, and recently many steps have been taken to increase the effectiveness of these ties and try to come on the same page in many aspects.

As of today's world order, India is the fastest-growing economy, which has attracted investments from big firms like Google, Apple, etc. They also know that India is looking forward to self-reliance and other defence partners for trade, so we have seen that America has always been trying to gain strategic ground; it is advertising their aircraft or the engines of the aircraft for which they agree to build with India, which is General Electric's GE-414, and a way to capture growing aspects like cyber security, AI, and UAVs.

In some aspects, America wants India to work with them, like the call on the Russia-Ukraine crisis, self-reliance or co-manufacturing of things rather than importing, an export ban and heavy duties on imports, the issue of Khalistani separatist leaders, the deployment of U.S. troops on Indian soil, etc., basically in situations of conflicting opinions. Moreover, according to the top leaders of the U.S.A., they see India as the weapon of tomorrow against China but also as a threatening superpower, and for that, they will attend to any strategic ties they can to avoid such a scenario in the making.

Our leaders are very clear, at the global stage, there is no permanent friend and no permanent enemy; the only thing that matters is the national interest. So, we made the world understand that we will align our country according to what is necessary for our country. India is respected for its adept balancing of international alliances, notably in groups like BRICS and SCO, despite Western indifference. It also aligns with the Indo-Pacific and Quad, despite opposition from China and Russia. India's approach underscores its commitment to a multipolar world order and addressing internal

Kartik Kumar Mishra

Semester 4

Department of Electronics and Telecommunication

Designed By: Aastha Gupta

Stupid Burger

Just a glimpse of yours was a ride to the multiverse.

A meeting with you used to freeze my universe.

It was just you on all the sides,
To be beside you, I left my world behind.

You reciprocated my feelings with the utmost care,
Felt more than just fortunate to have that share.

Beautiful yet unconventional relation,
Was bound to go through a separation.

Eventually, a day would come, I knew,
Where you won't let me be a part of you.
But over a burger, was a real surprise,
After all, we had a bonding of many miles.

You made me learn my lessons the hard way,

Closest to you, you didn't make me stay.
Doesn't matter how you treated me,

Prof. Pranoti Kavimandan
Assistant Professor
Department of Computer Science &
Buisness System

Designed By: Manika Jain



TOMBSTONE

I dig my grave, deep and deeper everyday,
 I slip steep and steeper,
 I'm a ghost now engraved in a tomb,
 I've been fading for way too long.

I feel like a ghost now,
 In a room full of people,
 I'm still lonely somehow.

I'm forgotten and buried,
 My tombstone weathered by the storm,
 Every day I water the very rose,
 Whose thorn I prick myself from.

You take a shovel and dig me out,
 I'm wounded, a pile of bones,
 I might shatter, please don't shout.

I hope you'd plant flowers near my grave,
 Every day I will disintegrate to help them grow,
 Soon I'll turn into dust, I'll be a tree and
 I'll be a meadow.

You dusted me with discordance,
 The grave has been dug demeaning your importance.
 I am no better than a skeleton respite
 With unsaid feelings, my heart retires.

For everybody it has become a topic to tattle,
 Making it harder to win the battle.
 I want to close this chapter,
 With no questions asked after.

With my last flicker and fire,

Shreya Gupta
 Semester 2
Department of Information Technology
 Designed By: Aastha Gupta





Amidst the clouds forever seen
There's a star shining bright.
Amidst the leaves of a standing tree
There's a leaf pale and dried.

The horizon is so distant.
And so, you are,
No matter how hard I try to catch you,
You seem the same far away.

You are the happiness that all alcoholics look for.
Temporary, never real, and hazy.
You seem like the musical chirping of birds.
Euphoric but can't be heard when we wish.

I wish you were there to see me grow.
As a writer, the way you gifted me a book,
As an engineer, the way you taught me circuits,
And as a human, the way you gave me a reason to live.

In the streets of a lost city
I cross the paths through the zebra stripes.
In the spookiest versions of my poetry
You hold the voice of chorric rhymes.

Your presence is my horizon.
Your absence is my horizon.
The orange sunsets, the pink sunrise,
Your face floats as soon as I close my eyes.

Your cooked meals I used to relish,
The rains we danced in.
The jazz we played that night,
Dim candles, dark gown, and light within.



The sky reminds me of you,
Once again, I want to spend a night,
Just looking up above and
Spot a shooting star, without you.

Sobs have breaths to carry,
Eyes too tired to hold anymore.
Emotions have stopped fluctuating but,
who will pause my heart to find a missing piece?

Horizon is what I long for
Because the sky is too high to climb.
The easy path it seems,
Maybe walking that way takes my life.

The horizon somewhere meeting the land,
Similar in our case, isn't it?
Somewhere....at that spot of love
That exists nowhere...all steps in vain.

In vain gone all the steps
But I'll walk further to catch you up,
In the sky lost that took you away
The heaven you chose that day.

The day I was close to someone other.
When the horizon was so far away,
I didn't know you becoming my foe,
You just befriended a rope.

-Shaleen Chakraborty
Semester-4
department of Electronics and Communication

Designed By: Manika Jain

THREADS OF ABYSS

It's so dark and so sombre
Melancholic air up and under
A Slytherin breeze passes a whisper
Like someone from the darker world summons to annex.

She delved so deep, felt so anxious
Had lost the peace which was so precious.

When regret hit her with the thought of loss She
cried out loud to her euphoric thoughts.

Euphoric thoughts guided her to the throne of freedom. The
last hope left now was the rope of wisdom.

There are no silver linings, just a sinister crack
Don't know what's lurking behind, just a dark abyss ahead.
Breathing in the darkness, the crack doesn't seem so bad
Had a little peak in it, saw someone staring back.
Looks like it's also hanging through a thread.

Free from the regret and the thought of loss
Hanging down from the rope of false wisdom
Was a lifeless creature human.

Soumya Suru
Semester 2
Department of Robotics & Automation

Designed By:Aastha Gupta

Today I Healed from Yesterday

Today I healed from yesterday,
 Come what may,
 Go, for not all is meant to stay,
 Yin and Yang is myth, look for the grey,
 Living is like a song meant to pause and play.

Scarred and scared,
 Captured yet spared,
 Photos that are monochromatic,
 Life that is dramatic.

One step at a time,
 Anticipate being at life's prime,
 I feel life is a game, I can respawn,
 I healed from death the day I was born

Suhani Kulshrestha
Semester-2
Department of Computer Engineering

I've Felt More Alive While in Pain

I've felt more alive while in pain
 Courage to speak up but with thorns in my neck
 I've walked through memories that were nightmares once
 Now all I can see is a mind taking steps undone

You search for a shoulder to cry on
 And it becomes the one where you find solace
 I'm not indecisive like before
 Neither calm anymore

Eyes shut for healing
 Wide open for cuts
 When it all ends with an unavoidable mess
 It's always the question - When did I grow up?

Tezashwani Tomar
Semester-6
Department of

Designed By- Manika Jain



Scars of Scar

All of them look at me with rage-filled eyes, none wishing me any good. They are not to blame; honestly, the things I have done over the past few years are not the ones I am proud of. But pride was not something I ever wanted in my life.

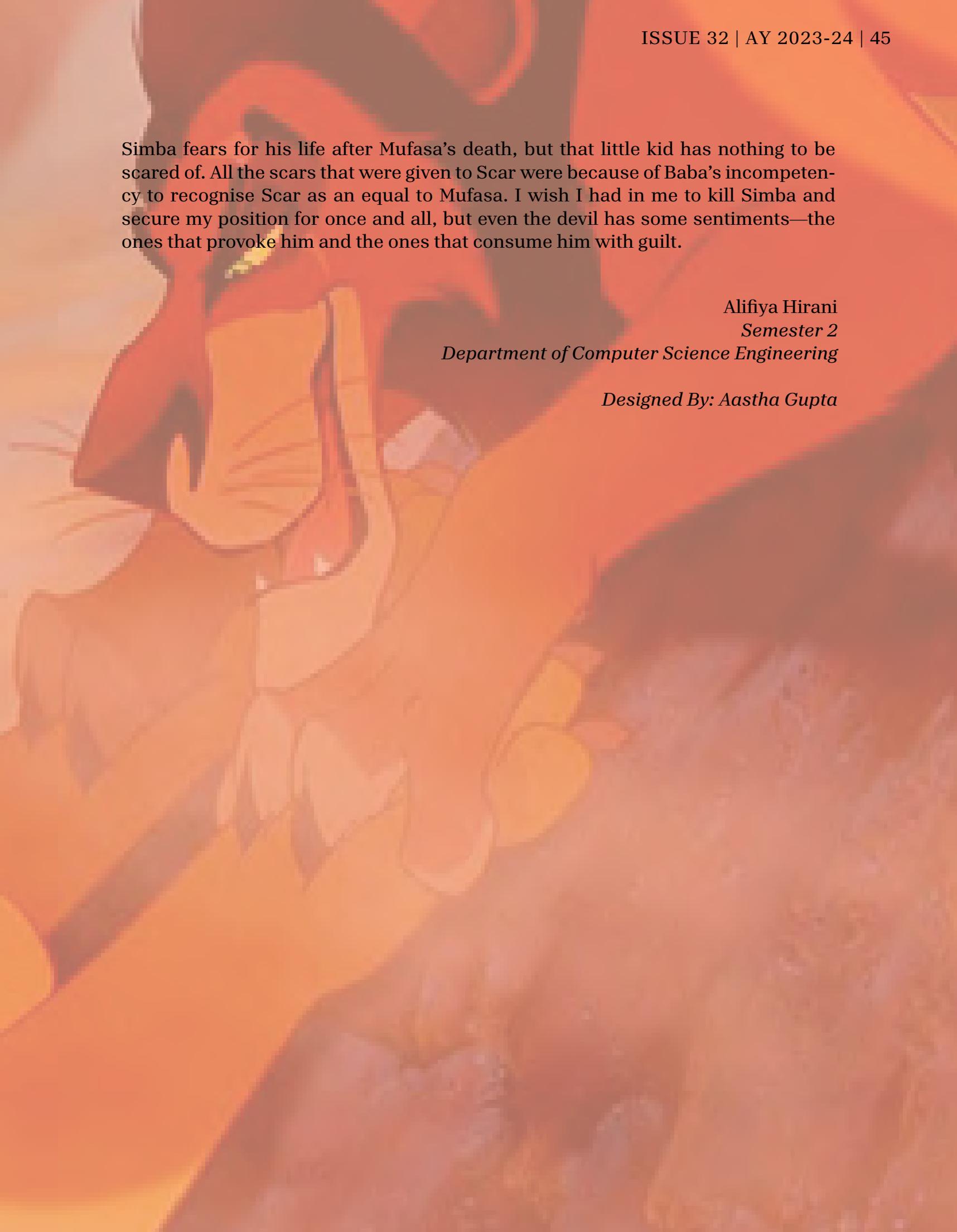
The whole jungle is filled with mournful hearts and teary whispers; it is Mufasa's remembrance ceremony, after all. I too stand there, my head knelt down, and when I look at Simba, something inside my dull heart stirs—a warm feeling quite unknown to me. It is not him who affects me, but his father. When Baba decided to crown Mufasa as the king, it irked every inch of my being.

"He is the first child of Scar; he deserves to be the king." Those were the only words Baba could utter on the night when the crown shone on Mufasa's head. But I could never give him my side of the story, and while I was busy being grudgeful towards Baba, he passed away in solace, knowing that the jungle was under Mufasa's protection. Not mine.

If only Baba had realised that I was as capable of being the king, if not better. If only he would have told me what I lacked that Mufasa possessed. If only he would have looked me in the eyes once in his life and said that I too was his beloved child.

If only all of these things had happened, then maybe this gnawing, an insatiable desire to bring about Mufasa's downfall wouldn't consume me. I never tried being a good brother to Mufasa, but he was a gem of a person, even though he was aware of my hatred towards him; never once did he forget his responsibilities as a brother and a king. He did make minute efforts to create peace between us, but what is peace if it ignites my soul? And his goodness was what prevented him from being a great king. After years of misfortune, my lesson has been one: goodness gets you nowhere.

My brother was gradually becoming a misfit to rule, and after his death, this entire kingdom would be mine to partake in, or so I thought. Another day, when he came with his futile attempts to reconcile our relationship. I lost all control. It had become my ritual to trigger him every time he tried to console me, and we both got into abusive combat. He must have underestimated my thirst for his position, and soon my brother was breathing his last in front of me. I might have had a hand. In it, I definitely did.



Simba fears for his life after Mufasa's death, but that little kid has nothing to be scared of. All the scars that were given to Scar were because of Baba's incompetency to recognise Scar as an equal to Mufasa. I wish I had in me to kill Simba and secure my position for once and all, but even the devil has some sentiments—the ones that provoke him and the ones that consume him with guilt.

Alifiya Hirani

Semester 2

Department of Computer Science Engineering

Designed By: Aastha Gupta

DAUGHTER



I thought I knew what a deer was. I'd seen Bambi. I'd watched those things 'hunt', as they called the action. I thought we weren't targets because we never harmed others; we feasted on plants and grass. But today, as I ran for my life, I realised how very wrong I was. I never expected this. I never would've figured this would happen.

Brandon stumbled onto me and clutched my feet. "D-Did you see that!? Myra- what was that? Why is there blood on the ground? W- Why is Ari not moving? W-why is she just lying there?" How could I tell my little brother that our family had been hunted down just for the sake of fun?

"B-Brandon... I want you to run. Make a run for your life. Don't look back, even if you think you are the only one running... Just run until you think you can no longer hear the crunch of leaves and the panting breaths of those animals, okay?" I could see the uncertainty in his eyes, but now was not the time to console him. All I could do was save him and wish for him to get away before they caught up with him.

Right when we'd finished discussing our plan and were about to take off, I felt the sensation—the feeling as if someone's gaze was touching me. I whipped around and met their eyes. They spoke a language I couldn't understand. Why were they here?

They tried to grab my hand and examine the goo on it. Why were they touching me and looking at me as if I were prey? That was when it hit me. Everyone else had been hunted; it was just me and my younger brother. So, I did what I should've. I nudged my brother to the other side, he ran away in that direction while I ran in the opposite direction.

I ran until I couldn't smell or sense my brother's scent anymore. I knew they would have sent someone in his direction, but I made sure to grab their attention by not making him the main focus, making it look like I was the only available target left. I was far away from home now. My lungs burned from the constant ache for water, and my legs were about to give up, but I couldn't give up... Not now.

When I saw a stream of water ahead, I started to slow, and my body directed towards it. But before I could reach the stream, a loud bang echoed. Instant pain shot through my entire body from my lower abdomen. I knew what had happened. They had shot me. I'd been hunted. But I couldn't let them go towards Brandon, so I struggled and dragged my body towards the stream. My vision started to black out, and my body started to give up, but I couldn't do anything. The place I'd once called home was now the graveyard of the very same ones who'd called me 'daughter'. This was the end. The fate of a deer. The fate of a daughter. The fate of the one who was on the

Raghvi Anand

Semester 2

Department of Chemical Engineering

Designed By: Manika Jain



Love Yourself

Everyone is on a hunt for the missing piece of life
 Searching, looking, and restless
 For someone to bring'em up alive
 But I, have a question for everyone darting in this chase
 Have you ever looked up in the mirror and just gazed?
 If your answer is yes then this is not for you,
 But if your answer is no,
 Then you're lacking self-love too!!!

A tremendous creation awaits appreciation,
 Not from some outsider but from your soul.
 The snow queen's looking glass,
 When it dropped and shattered,
 Everything is worth what we rate it,
 Everything ranked by how we place it.

To celebrate

What you've been able to gain
 Or ungratefully regard it with disdain
 Will always be a choice of yours.
 Sometimes you won't get to pick your lot
 But whether you'll be happy or not
 Will always be a choice of yours.

The good you have is here,
 Yet you keep looking on,
 Never realising what you had until it's gone!
 The only one allowed to judge you is yourself.
 You're the only one to define you, nobody else.
 You deserve your love which you decant on everyone else.

Cause you're sufficient in yourself!
 Respect yourself and the world will respect you.
 Care for yourself and the world will care for you.
 Know your worth and the world will worth you.
 Love yourself and the world will love you.

LOVE YOURSELF AND THE WORLD WILL LOVE YOU.

Shrestha Singh Chauhan
Semester 6
Department of Computer Science & Business System

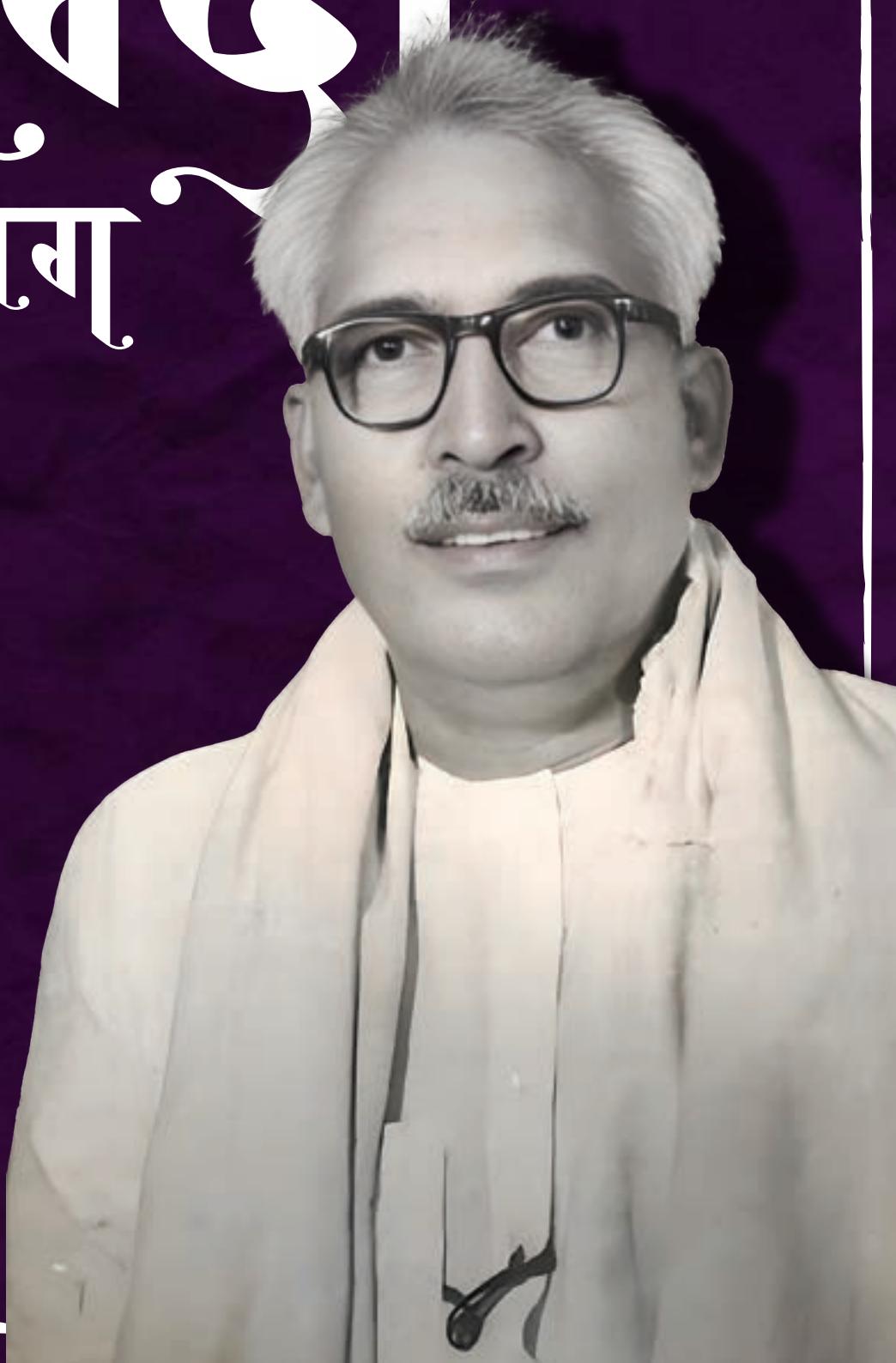
Designed By: Aastha Gupta



प्रकाश अनुमान

महान संकल्प ही
महान फल का
जनक होता है।

हजारी प्रसाद द्विवेदी
हिन्दी निबन्धकार, आलोचक और उपन्यासकार



आचार्य हजारी प्रसाद द्विवेदी

आचार्य हजारी प्रसाद द्विवेदी आधुनिक हिंदी साहित्य के प्रकाण्ड विद्वान् आचार्य माने जाते हैं। वहीं हिंदी साहित्य जगत में उन्होंने निबंध, उपन्यास व आलोचना विधा में कई अनुपम कृतियों का सृजन किया हैं। बता दें कि हिंदी साहित्य में अपना विशेष योगदान देने के लिए उन्हें भारत सरकार द्वारा वर्ष १९५७ में 'पद्मभूषण' पुरस्कार से सम्मानित किया गया। इसके साथ ही उन्हें वर्ष १९७३ में 'आलोक पर्व' निबंध-संग्रह के लिए 'साहित्य अकादमी पुरस्कार' से अलंकृत किया जा चुका है।

बता दें कि आचार्य हजारी प्रसाद द्विवेदी की कई रचनाएँ जिनमें 'बाणभट्ट की आत्मकथा' (उपन्यास), 'कुट्ज', 'अशोक के फूल', 'देवदारू', 'नाखून क्यों बढ़ते हैं', 'शिरीष के फूल' (निबंध), 'हिंदी साहित्य की भूमिका' व 'हिंदी साहित्यः उद्बव और विकास' (आलोचना) आदि को स्कूल के साथ ही बी.ए. और एम.ए. के सिलेबस में विभिन्न विश्वविद्यालयों में पढ़ाया जाता है।

मनुष्य के ढांचे का निर्माण किसने किया?

ईश्वर के कर्तव्य ने या
 कुरान के अलफ़ाज़ ने,
 अनकहीं दास्ताँ ने या
 कठिन परिस्थितियों ने,
 प्रकृति के अस्तित्व ने या
 सारती के जिव ने,
 संसोधन के एक क्षण ने या
 प्रतिक्रिया के कण-कण ने,
 माँ के खून ने या
 पिता के प्रेम ने,
 दबे पांव आयी खुशियों ने या
 आंधी तूफान ने।

यदि वास्तविकता का रुझान है तो,
 मनुष्य परिस्थितियों का परिणाम है
 और, परिस्थितियों का ही शिकार है,
 परिस्थितियां सबसे प्रबल हैं,
 और यहीं सत्य अटल है।

कर्म है वो कर्म है, कपाट पर जो लिखा तेरे
 धर्म है वो धर्म है, जिससे बच के भाग रहा
 अभिमान की मूरत है, अज्ञान की सूरत है
 मनुष्य, मात्र अराजकता की जरूरत है।

आकांक्षा चतुर्वेदी
 सेमेस्टर ६
 विद्युदाणविक एवं दूरसंचार अभियांत्रिकी विभाग

डिज़ाइनर: अभिषेक सिन्हा



सुनसान डगर

आज यूँ बैठा हूँ इस रास्ते के बीच
बहोत से लोग आ के जा चुके हैं यहाँ से
पर ऐसा लग रहा है की ये वो सुनसान डगर है
जो मैं आज यूँ निहार रहा हूँ।
यहाँ न कोई पहले आया है,
किसी ने इससे ऐसे यूँ निहारा है।
सफर के बीच यूँ खड़ा आज
जीवन का सार एक पल जीता जा रहा हूँ मैं

सफर पे निकल चुका हूँ।
ठहराव के साथ आगे बढ़ता जा रहा हूँ।
दर सा लग रहा है जानी डगर को छोड़ कर,
वो गली को छोड़ कर जिसमे मेरा बचपन गुज़रा है।
पर खुद पर गर्व भी महसूस हो रहा है
यूँ आज ये कदम बढ़ा कर
अपने आप को यूँ आगे बढ़ता देख
बीती बातों को यूँ पीछे छोड़ कर
सफर का मैं यूँ आनंद उठा रहा हूँ।
इस नयी डगर पर मैं अपने ख्वाब बिछा रहा हूँ।

वो ख्वाब जो मैंने अपने घर की खिड़की पे बैठे देखे थे
वो ख्वाब जो मैं खुली आँखों से देखे थे
आज उनकी ओर मैं कदम बढ़ा रहा हूँ।
आगे खुला आसमान सा दिख रहा है आजकल
बस उड़ान लगाने की देरी है
पर सफर के बीच मैं आज कतरा रहा हूँ
चाह कर भी उड़ न पा रहा हूँ।

एक एक कर मन को मना कर कदम बढ़ा रहा हूँ,
यूँ उड़ान से घबरा सा रहा हूँ
रास्ता सुनसान है, आसमान खिला
मन में आग तोह है
बस ज़ज़्बा का सहारा का झुंतज़ार है
इसलिए यूँ डगर पर मैं थोड़ा लड़खड़ा सा रहा हूँ।
थक कर आज यूँ बीच बीच मैं आराम फ़रमाह रहा हूँ।
चलते चलते आज आपको अपनी भावना इन् पंक्तियों में बता रहा हूँ
आज यूँ रास्ते में बेथ कर आसमान देख मुरुकुरा रहा हूँ।

वंशिता जैन
सेमेर्टर ८
संगणक विज्ञान एवं व्यापार प्रणाली विभाग

सादा पन्ना

उस एक चांदनी रात को जीने के लिए,
पीछे, दिन के कई उजाले छोड़े हैं मैंने ।
बस घर का चूल्हा जलता रहने के लिए,
अपनी माँ के हाथ के निवाले छोड़े हैं मैंने ॥

सिर्फ ये सपनों का सागर पार करने के लिए,
पीछे कई बार झूबकर भी मरना छोड़ा है मैंने
अपने पिता के पैरों को थोड़ा आराम देने के लिए
कड़ी धूप में भी छांव देख ठहरना छोड़ा है मैंने ॥

जिस बगिया में पला बड़ा उस हर फूल के लिए,
पीछे उन रिश्तों की खुशबू का दामन छोड़ा है मैंने ।
जिस मंजिल को जाती ये सड़क उस शहर के लिए,
अपने उसी गांव में मिट्टी का आंगन छोड़ा है मैंने ॥

त्योहारों पर खामोश रह जाने वाली ऊहिशों के लिए,
पीछे कई दिवाली की रौनकें होली का रंग छोड़ा है मैंने
आज भी जब तरसता है मन अपने घर लौटने के लिए,
फिर चौखठ कहता उसे एक उम्मीद संग छोड़ा है मैंने ।

स्टेशन से गाड़ी के खुलते ही गुजरते उन लम्हों के लिए,
पीछे उस नदी के नाम अपनी नांव पर एक वादा छोड़ा है मैंने।
इस संघर्ष की जीत तक तपस्या है तय,
फिर उसके लिए,
लिखूँगा कभी जो परिणाम का पन्ना सादा छोड़ा है मैंने ॥

हर्ष
सेमेस्टर ६
विद्युदाणविक एवं दूरसंचार अभियांत्रिकी विभाग

डिजाइनर: अभिषेक सिन्हा



ख्वाब

चल आज मैं तेरे ख्वाब देख लेता हूँ,
इस में तुझे, बेहिसाब देख लेता हूँ,
इन ख्वाबों के मंजर में खोए हुए,
तुम्हारी मुर्स्कान सौ बार देख लेता हूँ।
चल आज मैं तेरे,
ख्वाब देख लेता हूँ।

कि आँख जो खोलूँगा,
तो ये बादल हट जाएँगे,
तुम जो ना होगी सामने मेरे,
दिल के फूल झड़ जाएँगे।
उन फूलों को आँखें बंद कर,
मैं आज समेट लेता हूँ
चल आज मैं तेरे
ख्वाब देख लेता हूँ।

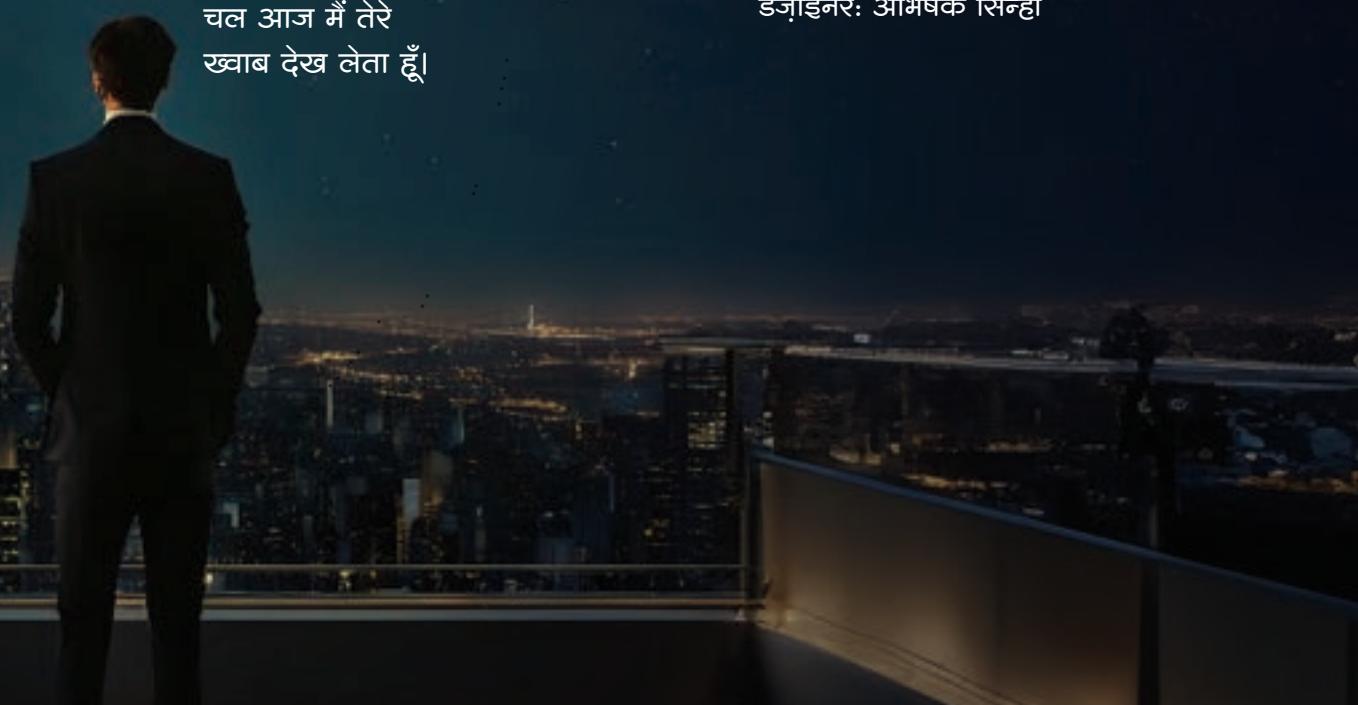
कि तुझसे बात किए,
अब अर्से बीत जाएँगे,
प्रेम की बूँद बरसाने वाले,
ये बादल फिर ना आएँगे।
आज अपने ख्वाबों में,
वो बरसात देख लेता हूँ,
चल आज मैं तेरे
ख्वाब देख लेता हूँ।

कि हम दोनों पीछे कहीं,
छूट से गए हैं,
मेरे दिल में मोहब्बत के शीशे,
अब टूट से गए हैं।
अपने ख्वाबों के दर्पण में,
तेरा एहसास देख लेता हूँ,
चल आज मैं तेरे
ख्वाब देख लेता हूँ।

ये मंजर जो मेरे सामने,
नयन खोल कर आएगा,
ना कोई पतझड़ होंगे,
ना कोई सवेरा लाएगा।
अपने ख्वाबों के मौसम में,
सवेरे हजार देख लेता हूँ
चल आज मैं तेरे,
ख्वाब देख लेता हूँ।

श्रेष्ठ राज
सेमेस्टर ४
सूचना प्रौद्योगिकी विभाग

डिजाइनर: अभिषेक सिन्हा



ना जाने क्यों,,

तुम मोहब्बत पर कभी क्यों लिखती नहीं?

मेरा दोस्त मुझसे ये सवाल कर गया।

जो ना जाने क्यों,

मेरे ज़हन में बवाल कर गया।

उसे बिछड़े कितने दिन हुए,

अब गिनती नहीं।

फिर भी ना जाने क्यों,

ख्वाबों में उसे याद करने की संख्या कभी गिरती नहीं।

उसे मिलने की आरजू मेरी आँखों में,

अब दिखती नहीं।

फिर भी ना जाने क्यों,

उस दूटे हुए आलम का मंज़र देखने के बाद भी ये निशाहें कुछ सीखती नहीं।

इस खामोश दिल में उसकी आवाज़,

अब चीखती नहीं।

फिर भी ना जाने क्यों,

एक बेरंग सी उम्मीद है जो मामूली चमक के दाम बिकती नहीं।

तो बात दरअसल ये है जनाब़,

जो चीज़ मुझे मिलती नहीं,

उस पर मैं लिखती नहीं।

फिर भी ना जाने क्यों,

उसकी दी गई कलम में स्याही टिकती नहीं।

अनिशा जैन

सेमेस्टर ८

विद्युदाणविक एवं दूरसंचार अभियांत्रिकी विभाग

डिजाइनर: अभिषेक सिन्हा



कर्ण का परिचय

ना हूँ स्वर्गवास में,
मैं हूँ अनेक प्रकाश का , मैं
हूँ एक रात के
अंतोर के विनाश का ।

सूर्य मेरे पितृ है,
दुर्योधान मेरे मित्र है,
यहां खड़ी सभा के,
एक एक में मेरे चित्र है।

हरते अगर दुख मेरा, स्वामी
तुम्हे मैं पूजता,
खड़ा हुआ है बस एक वो
जिसे मित्र मैं सूझता ।

हूँ नहीं महाराज मगर,
तुम सबके अनेक विवेक हूँ,
मैं हूँ नहीं कोई अर्जुन
पर तब भी मैं बस एक हूँ।

मैं हूँ नहीं कोई लेखक, मगर
दुर्योधन का लेख हूँ अंग
राज्य मुझे प्रदान गए, जब
शुद्रों का मैं एक हूँ।

क्या माँ ने मुझे न छोड़ा?
क्या भाई ने मुझे न तोड़ा?
फिर किस धर्म का ज्ञान लिए,
मेरे शिवर में तुम आते हो,
क्या अर्जुन को दिया ज्ञान,
तुम मेरे लिए भी लाते हो ?
तुम हो क्यों बस एक अर्जुन के?
तुम तो सबके स्वामी हो,
तो फिर मित्र पर आँच क्यों आए,
अर्जुन भी तो भागीदार हो !



और यदि लगे तुम्हें,
कही मैं मित्र कंधो
पर कूदता तो खड़ी करदो,
सेना अपनी मैं एक बाण
भी नहीं चुकता !

तुम भी हो पूजनीय मुझे,
ये गलती मत तुम करना,
मगर कभी बैठो अगर,
तो सोच फिर ये भरना,
वो कौनसे बाण हैं ऐसे ?
जो छाती मेरी चीरते,
कवच है सोने का
मगर तब भी मुझे सीजते,
सोचो कभी वो बाण,
अगर पाओगे
शब्द वाणी को,
शब्द वाणी रक्त ,
शब्द वाणी मरण ,
शब्द वाणी और मेरा ,
संबंध हूँ कर्ण मैं,
नहीं छलावा हूँ ,
हूँ दोस्त मैं
ना किसी का नराला हूँ ,
है दुर्भाव्य मेरा ,
तुम हो सागर और,
मैं केवल एक प्याका हूँ।

आदित्य रंजन
संगणक अभियांत्रिकी विभाग
सेमेस्टर ४

डिजाइनर: अभिषेक रिन्हा

धर्म का फैसला

भ्रष्टाचार, भ्रष्टाचार।
रुहानियों को चीरता,
दिखावे को आज़ाद है।
इनके शासन का अंदाज़ है,
झूठ, सच, क्या कपट?
बंद सबकी आँखें हैं,
धर्म का यह जाल है।
देखो कैसा राज़ है,
देखो कैसा राज़ है।

झूठी नवाज़िशें, दूटी ख्वाझिशें,
धर्म का यह जाल है।
देखो कैसा राज़ है,
देखो कैसा राज़ है।

गिर रही रिवायतें,
जो देश के सम्मान की।
है भैड़ चाल हर जगह,
नवाबों पे है सर झुका।
बेच रहे झेमान हैं,
गिर रहा सम्मान है।
देखो कैसा राज़ है,
देखो कैसा राज़ है।

तो आज तू कदम बढ़ा,
तोड़ के शिखर बड़ा।
जो पापियों का बढ़ चला,
धर्म का लेके फैसला।
आज ले तू शपथ,
देश की मिट्टी के संग।
सर अपना तू मिला,
लेके अब ये फैसला,
कि क्या सच,
कौन तरज्जु,
किस बात का है यह कपट?
अधर्म जिनका ए रहा,
तो छोड़ ये सिलसिला।
लेके अब तू फैसला।
लेके अब तू फैसला॥

तू कहने को तो आम है,
पर आदमी तू आवाम है।
उठाने को आवाज़ अब,
इन शासकों के अन्याय पर।
लेके कृष्ण को रथ पर,
चल दे सच्चाई के पथ पर।
तू रह हमेशा धर्म के संग,
छोड़ इनके लालच का ढंग।
आवाज़ तू अब उठा,
लेके अब तू फैसला।
लेके अब तू फैसला।

भीड़ से तू न डर,
होकर तू निडर।
आगाज़ की हुंकार भर,
ले अब तू फैसला।
प्रार्थ का फैसला,
प्रार्थ का फैसला।

हर्षिता जैन
सेमेस्टर ६
संगणक अभियांत्रिकी विभाग

डिज़ाइनर: अभिषेक सिन्हा



प्रिये मधु

प्रिये मधु,

आज हमारी शादी को पूरे आठ वर्ष हो गए हैं और तीन वर्ष तुम्हें मुझसे अलग हुए।

आज भी जब दिल्ली काम के सिलसिले में जाना होता है तो मैं तुम्हारे लिए पायजेब या फिरोज़ी खरीद लेता हूं, उस वक्त ये ज़ेहन में नहीं रहता कि तुम मुझसे अलग हो गई हो।

दिल्ली का वो खान मार्केट याद है तुम्हें, जहां से तुम्हें परवीन शाकिर और साहिर की किताबें चाहिए थीं मगर तेज बारिश के कारण हम उस मार्केट से जल्दी निकल गए थे, तो कह रहा था कि खरीद ली हैं मैंने वो सब पर कभी पढ़ी नहीं .. झांकती है अलमारी से चुप चाप झुंतजार में अपने असली मुख्तार के बिल्कुल मेरी तरह।

आज भी दफ्तर निकलते वक्त रुमाल ढूँढता हूं तो निकल जाती है तुम्हारे नाम की पुकार ... शायद इन सब आदतों से उभरने में मेरी जिदगी निकल जाएगी।

मां ज़िद्द बहुत करती हैं कि फिर से घर बसा लूं मगर मेरे कमरे की रेख पर आपसी भरी आलते की शीशी मुझे डंजाज़त नहीं देती..

सच कहूं तो हर शाम मेरे आंगन की तुलसी सवाल करती है मुझसे तुम्हारे बारे में इतनी देख -
रेख के बावजूद सूख रही है वो
और मैं भी ..
तुम्हारा और सिर्फ तुम्हारा मैं

स्वरूप मिश्र

सेमेस्टर ४

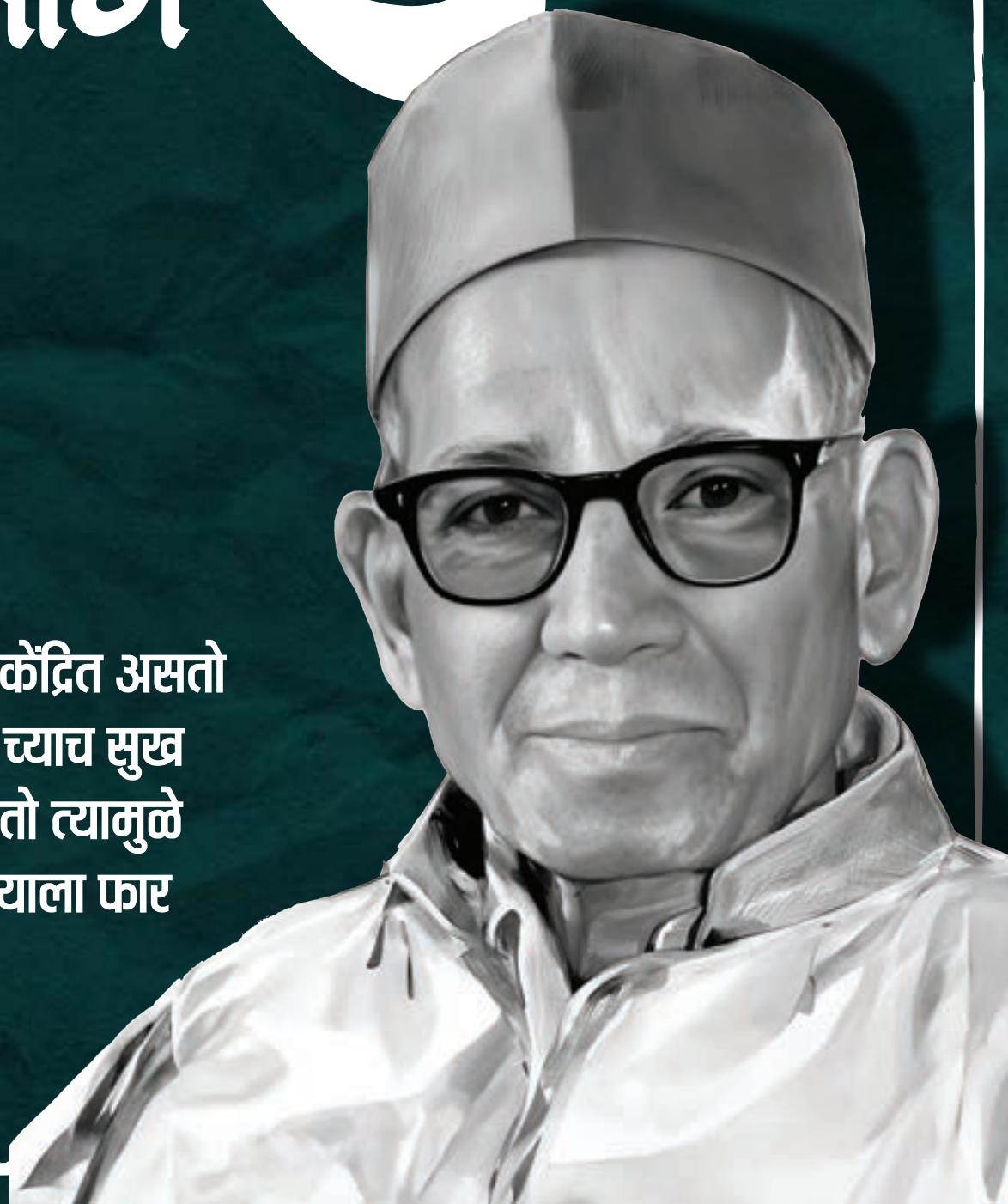
विद्युदाणविक एवं दूरसंचार अभियांत्रिकी विभाग

डिजाइनर: अभिषेक सिन्हा

मराठी अनुभाग

आपण सदैव आत्मकेंद्रित असतो
नेहमी केवळ स्वतःच्याच सुख
दुःखाचा विचार करतो त्यानुज्ञे
आपलं दुःख आपल्याला फार
मोठं वाटत दाहतं।

विष्णू सखाराम खाडेकर
मराठी लेखक



विष्णू सखाराम खांडेकर

शब्दप्रभुत्व, कल्पनावैभव, कोटिबाजपणा, वारतववादी, व्यामिश्र आणि प्रयोगशील लेखन करणारे महाराष्ट्रातले श्रेष्ठ कादंबरीकार, लेखक विष्णू सखा. राम खांडेकर म्हणजेच वि. स. खांडेकर.। वि. स. खांडेकरांचा जन्म सांगली येथे १९ जानेवारी १८९८ रोजी झाला। परीक्षेत चांगले यश लाभल्यामुळे त्यांच्या मामांनी पुण्याच्या फर्ग्युसन कॉलेजमध्ये त्यांना प्रवेश मिळवून दिला। या काळात त्यांचा परिचय बालकर्ती, गणपतराव बोडस, अच्युतराव कोल्हटकर, मित्र साहित्यकांशी झाला आणि त्यांच्या लेखनाची सुरुवातही याच काळात झाली। ‘रमणीरत्न’ हे त्यांचे पहिले नाटक त्यांनी लिहून पूर्ण केलेद्य कॉलेज सोडल्यावर ते सावंतवाडीला आपल्या बहिणीकडे राहू लागले।

१९१९ नंतर खांडेकरांचे लेखन जोरात सुरु झाले होतेद्य कादंबरी, काव्य, लेख, विनोदी साहित्य, असे त्यांचे साहित्य प्रसिद्ध होऊ लागले। शिरोङ्याचा त्यांचा काळ हा लेखक म्हणून उमेदीचा काळ होता। १९३८ नंतर ते कोल्हापूरला जाऊन स्थायिक झाले। ‘हृदयाची हाक’, ‘कांचनमृग’, ‘दोन धूव’, ‘उल्का’, ‘दोन मने’, ‘हिरवा चाफा’, ‘रिकामा देवहारा’, ‘पांढरे ढग’, ‘पहिले प्रेम’, जळलेला मोहोर’, ‘अश्रू’, ‘ययाती’, ‘अमृतवेल’, ‘क्रौंचवध’ इ. त्यांच्या कादंबर्या। याशिवाय ‘वायूलहरी’, ‘चांदण्या’, ‘सायंकाळ’, ‘अविनाश’, ‘मंदाकिनी’ इ. तीस कथासंग्रह, ‘वनभोजन’, ‘धुंधुमास’, ‘फुल आणि काटे’, ‘गोकणीची फुले’, ‘गोफ आणि गोफण’ हे लेख।

खरंच माणूस इतका बिझी झालाय का?

घटना :

२१ सप्टेंबर २०१७ रोजी सकाळी १०.३० च्या सुमारास प्रभादेवी आणि परळ रेल्वे स्थानकांमध्ये (पूर्वीचे एलिफन्स्टन रोड रेल्वे स्थानक) एकाच वेळी चार उपनगरी गाड्या आल्या। प्रभादेवी आणि परळ रेल्वे स्थानकांना जोडणार्या (५),(६), अरुंद पादचारी पुलावर अनेक लोक एकाच वेळी चढला। या वेळी पाऊस पडत होता। या सुमारास कोणी तरी व्यक्ती घसरून पडव्यावर ही चेंगराचेंगरी झाली असावी।



पूल पडत आहे अशी अफवा पसरव्यामुळे प्रवाशांनी अधिक गर्दी करीत पळ काढण्याचा प्रयत्न केला। एका साक्षीदारानुसार पोलीस आणि आपत्काळीन अधिकार्यांनी लगेच प्रतिसाद न दिव्यामुळे परिस्थिती चिघळली। या चेंगराचेंगरीत किमान २३ लोक मरण पावले आणि ३१ जण जखमी झाले। रुणालयाच्या अधिकार्यांनी सांगितले की, बहुतेक लोकांचे मृत्यू गुदमरून आणि रक्तस्रव झाल्यामुळे झाला। त्यावेळी या घटने वरून मला सुचलेले काही शब्द खालीलप्रमाणे...

खरंच माणूस इतका बिझी झालाय का?

परवा बातमी वाचली मुंबई मध्यव्याया *Elphinstone Road Railway Station* वरची। मन सुन्न करणारी घटना। त्यादिवशी खूप विचार डोक्यात आले आणि आज ते मांडायची इच्छा झाली।

इतका माणूस बिझी झालाय का? कि त्याला २ मिनिट सुद्धा उशीर झालेलं सहन होत नाहीये?

ठीव्ही वर बातमी पाहूत असताना डोक्यात विचारांचं काहोळ माजला होता। सगळीकडे मीडिया वाले ते दृश्य दाखवत असताना त्यावर चर्चा, महाचर्चा भरवत होते, आणि नेहमी प्रमाणे राजकारणी एकमेकांवर आरोप करण्यात व्यस्ता। हे दृश्य तर इथून मागे असच होत आणि इथून पुढे हि असच दिसेल

बदलायला हवं ते फक्त आपल्याला, आपल्या शिस्तीं दर्शन घडविण्याची ती वेळ होती, पण दुर्दैव्य कोणीच शिस्त बाळगली नाही (ज्यांनी शिस्त बाळगली त्यांना सलाम) आणि त्यातच अंत आला कोणाच्या तरी आईचा, बापाचा, भावाचा, मुलाचा, बायकोचा... सरकार आश्वासन देईल मदत करेल पण त्या लहान मुलाला त्याचे आई वडील देऊ शकेल?

असे असंख्य प्रश्न निर्माण झाले डोक्यात.. सरकार अशा घटना घडल्यानंतर जागे होईल, उपाययोजना करेल पण आपण एक नागरिक म्हणून अश्या घटना घडते वेळी थोडी शिस्त, संयम बाळगायला हवा।



जीवाची मुंबई आहे खरी, पण २ मिन उशीर झाला म्हणून काही बिघडणार नाहीये मित्रांनो, जॉब, पैसे कमवता हे स्वतःसाठी, परिवारासाठी आहे विसरू नका। घरी जाते वेळी माझी बायका मुले, आई वडील वाट पाहतायत हे लक्षात ठेवा। त्यातच दुसरी बातमी कि एक जण मृत महिलेच्या अंगावरचे दागिने चोरत होता। अरे माणूस इतका असंवेदनशील झालाय का? ते दृश्य पाहून अशा घंड चोराला पोकळ बांबू चे फटके मारायची इच्छा होत होती। माझीच काय तर ते दृश्य ठीव्ही वर पाहणार्या प्रत्येकाची होत असणार ह्यात शंका नाही।

तर मित्रांनो, वेळ जरी सांगून येत नसली तरी आपण त्यावर प्रतिबंध करण्याचा प्रयत्न तरी करू शकतोच ना।

इथून पुढे अशीही घटना घडू नये हीच ईश्वरचरणी प्रार्थना। आणि जरी अशी घटना घडणार आहे याची जाणीव झाली तरी सगळ्यांनी शिस्त आणि सयंम बाळगून अश्या परिस्थिती वर मात करणे हाच पर्याय आपल्या हातात आहे. बाकी सरकार, प्रशासन, राजकारणी कधी सुधारणा करतील तेंव्हा करतील।

प्रा. गजानन ओळे

माहिती तंत्रज्ञान विभाग



न्याय

असं मृणतात,
सत्याचाच विजय होतो...
पण मृणून कधी असत्याचा पराभव होत नाही....

इथ तर मढ्यावरचं लोणी खायची चटक लागते
पण त्यासाठी घुसळलेलं सत्य माझ कोणी स्वीकारत नाही....

नारे घुमतात,
आता आणखी सहन करणार नाही...!
हिरव्या हिरव्या फांद्या लवतात, अन् हळूच आवाज येतो,

यही दुनियादारी है.
फार काही बिघडत नाही..!!

न्यायदेवता तोलते न्याय,
बांधून डोक्यावर पट्टी,
कारण न्याय निरपेक्ष ठावा ठावा...
खरी गोट्ट हीच असावी की,

हा जुगार तिला सहन होत नसावा...

मृणतो आपण की,
'भगवान के घर देर है... अंधेर नही...!
आजकाल 'देर' ही होतो,
अन् 'अंधेरा' ही काही हटत नाही...

मृणूनच तर मृणतात, की सत्याचाच विजय होतो पण मृणून काही,

असत्याचा पराभव होत नाही...!

प्रा. आराधना थोरात
संगणक विज्ञान आणि व्यवसाय प्रणाली विभाग

डिजाइनर: कवलजीत सिंह



प्रयत्न करतोय

स्वतःला स्वतःसाठी स्वतःहून स्वतःमध्ये शोधण्याचा प्रयत्न करतोय..

दुसर्यांनी दुसर्यांसाठी दुसर्यांकडून दिलेला त्रस विसरण्याचा प्रयत्न करतोय...

माझ्याच माझ्यासाठी माझ्याकडून असलेल्या अपेक्षा कमी करायचा प्रयत्न करतोय...

स्वप्नात स्वप्नातल्या स्वप्नांच्या पूर्णत्वाचा थोडासा प्रयत्न करतोय...

मित्रांनी मित्रांसाठी मित्रांकडून दिलेल्या आठवणी आठवण्याचा प्रयत्न करतोय...

डोक्याने डोक्याला डोकंलाऊन दिलेला त्रास संपविण्याचा प्रयत्न करतोय...

जिह्वीला जिह्वीने जिह्वावून जिह्वा पूर्ण करण्याचा प्रयत्न करतोय....

स्वतःला स्वतःसाठी स्वतःहून स्वतःमध्ये शोधण्याचा प्रयत्न करतोय..

डिजाइनर: कवलजीत सिंह

प्रा. गजानन भोळे
माहिती तंत्रज्ञान विभाग



मृत्युशय्या

अंधुक उजळलेल्या खोलीत हरिराव मृत्युशय्येवर झोपले होते। मध्य रात्रीच्या शांततेत सुद्धा त्याच्याभोवती वैद्यकीय उपकरणाची टिक-टिक, प्रत्येक वाहत्या क्षणाला त्यांना आपला जीव सुद्धा वाहतांना त्यांना जाणवत होते। त्यांचं सुरकुत्या चेहरा, एक आनंदी आयुष्याच्या रेखांनी भरलेला होता। वृद्धावस्थेचं थकवा त्यांच्या चेहर्यावर दूर्घयमान होते। जीवनाचा अंत सामीप्यात येताना, त्यांच मन आपल्या जीवनाच्या अनेक आठवणी जगायच्या पथावर निघाला।

खोली ओसरव्यासारखी वाटत होती आणि हरी-राव आपल्या तारुणाच्या उत्साही दिवसांमध्ये परत आले। त्याने स्वतःला पुन्हा तरुण म्हणून पाहिले, त्याने स्वतःला पुन्हा तरुण म्हणून पाहिले, ते फक्त तरुणच दिसत नव्हते तर त्याच्या मनात उत्साहाची आगही जाणवली होती। त्याने विसरलेल्या मित्रांचे हास्य ऐकले आणि न जणू ते पण हसायला लागले, त्याच्या तारुण्याच्या निश्चिंत दिवसांची त्याने उजळणी केली।

मग त्यांच मन कविताला भेटव्याच्या दिवसाकडे वळलं, ती स्त्री जी एक दिवस त्याची पत्नी होईल। जरी तिने त्याच्या आधी हे जग सोडले, तरीही त्यांना तिची आठवण होते जणू ते कालच भेटले होते। वर्षानुवर्षे त्यांनी एकमेकांना दिलेला अतूट आधार त्याच्या डोळ्यात अशू आणलो। त्यांच्या वैवाहिक जीवनात जे पण सुख-दुःख आले त्यातून कविता आणि हरी नि असे बंधन निर्माण केले जे काळ पुसून ठाकू शकत नाही।

या आठवणीचा प्रवासात, त्यांना पश्चातापाच्या क्षणांचा सुद्धा सामना करावा लागला, ते शब्द जे ते कधी बोलले नाही, ते रस्ते जे कधी त्यांनी घेतले नाही, ते स्वप्न जे ते कधी जगले नाही। क्षणभर या पश्चातापांनी हरिच्या हृदयावर भार टाकला असला तरी त्यांना लवकरच कळले की ह्या चुकांनी त्यांना आकार दिला आहे, आणि ह्या चुका त्यांचा आजच्या जीवनाला फारसा काही प्रभावित करत नाहीत।

दूरश्य बदलले आणि हरी-राव त्यांच्या आपल्या घरी उभे होते, त्यांचे दोन्ही मुलं आणि नातू सर्व मिळून हसत होते, जे द्रिश्य पाहून हरी-रावांचा हिंददय गर्वने फूलले त्यांनी खरंच एक संपूर्ण जीवन जगले होत आणि आज त्यांचे पोरं आणि नाती सुखी जीवन जगतील याची खात्री सुद्धा त्यांनी केली होती, आज त्यांना कोणत्याच गोष्टीची काळजी नव्हती, ते मुक्त होते।

जसे जसे हे आठवणी हरी-रावांच्या लुप्त होणारी दृष्टीसोमोरुन जात होते, तसे तसे त्यांच्या मनात त्याच्याबद्दल कृतज्ञतेची भावना वाटली। हरी-रावांनी एक आनंदमयी एवं सुखी जीवन जगले होते। त्यांना प्रेम, दुःख, त्रास, आराम हे सर्व बघितले होते। निशंक बरेच अशे स्वप्न होते जे खरे नसतील झाले, बरेच अशा गोष्टी होत्या ज्या त्यां सर्व नव्हता पण ह्या अपूर्ण स्वप्नांचा त्यांना खेद नव्हता कारण त्यांचा आजय अस्तित्व त्यांच्या संपूर्ण जीवनाचा सार होता, त्यातले हे अपूर्ण स्वप्न फक्त एक वर्ण होते।

मृत्युशय्या वर परत येतास, हरी-रावांनी त्यांच अंतिम स्वास घेतला। चेहर्यावर हसू आणून हरीने मृत्युशय्येवर डोळे मिटले आणि पलिकडच्या जीवनासाठी निघून गेला। आनंदाचे जीवन जगल्यामुळे हरीला दुःख करण्यासारखे काहीच नव्हते। ते वारले।

अमेय घटोल

सेमेस्टर २

संगणक विज्ञान आणि अभियांत्रिकी विभाग

डिजाइनर: कवलजीत सिंह



जीवन इंजिनियर्च

बारावीच्या रांगेतून आलो ठ.जम्बी च्या लाइनमध्ये,
इंजिनिअरिंग कार्य असते ते कळले पटिल्या सेममध्ये.

कधी काही मुलं लेकचरला येऊन मारतात स्टाईल,
त्यांच्याकडे बघून शिक्षक फक्त करतात स्माईल.

पी.बी.ल आणि फाईल चे जेव्हा येतं सबमिशन,
सर्व विषय पाहून येते तेव्हा जाम ठेण्यान.

हात लिहीत राहतात पण समजत काही नाही,
असाइनमेंट आणि पी.बी.ल समोर काहीच दिसत नाही.

हे सगळं पाहताना युनिव्हर्सिटीच्या परिक्षेची तारीख येते,
आताच सुरु झालेली टर्म येवढ्या लवकर संपून जाते.

पी.ल ची सुद्धी सुरु झाली की वाटतं खूप बरं,
मग युनिव्हर्सिटीची परिक्षा सुरु झाली की कळतं सगळं खर.

इंजिनिअरिंग पाहून वाटतं शाळा होती बरी,
कारण जीवन जगण्याची मजा तेव्हाच होती खरी.

चार वर्षांति जे सगळं काही शिकतात,
त्यानांच खरे इंजिनिअर महणतात.

साक्षी मुकनाक

सेमेस्टर ४

विद्युदाणविक आणि दूरसंचार अभियांत्रिकी विभाग

डिजाइनर: कवलजीत सिंह

माझ्या मते आयुष्य आहे तरी कसें

आयुष्य एक कोरे पान,
आयुष्यात फुलावे सर्वसुखांचे रान।
आयुष्य एक सुंदर गाणे,
आयुष्यात गावे प्रितीचे तराणे।
आयुष्य एक देवाची देणगी,
आयुष्यात करावी दुःखाची रवानगी।
आयुष्य एक प्रत्येकाची कथा,
आयुष्यात लिहावी स्वतःची गाथा।
आयुष्य एक चालता प्रवास,
आयुष्यात सर्वांनी घ्यावा मोकळा श्वास।
आयुष्य एक देवाची रचना,
आयुष्यात सर्व सुखरूप रहावे ही प्रार्थना।

अंबिका रणजीत देशमुख
सेमेरटर २
संगणक अभियांत्रिकी विभाग
डिजाइनर: कवलजीत सिंह

TECHNICAL SECTION

You have to be decisive.
Indecisiveness is a startup killer.

Sam Altman
CEO, OpenAI



SAM ALTMAN

Sam Altman is an American entrepreneur, investor, and programmer. He is best known for his role as the CEO of OpenAI, an artificial intelligence research laboratory. Altman was formerly the president of Y Combinator, a prestigious startup accelerator, where he played a key role in the development and success of numerous startups. His career started with co-founding Loopt, a location-based social networking app, which was acquired by Green Dot Corporation. Altman is recognized for his vision and leadership in the technology industry, especially in the fields of AI and startup cultivation. His work at OpenAI includes the development of groundbreaking AI technologies and promoting ethical AI usage. Altman is also a prolific writer and speaker on technology, startups, and the future of AI.

Apple: Cult Or a Culture



How many times have we all compared Apple's products being equivalent to a kidney?

Well, there is an actual story behind this expression. Back in 2011, when Apple products had just started flourishing, Wang Shangkun, a Chinese resident, sold off his kidney to buy Apple products, and that too in the black market online. He was soon detected with an infection in his other kidney and thus is undergoing dialysis to this day. To quote him, "Why do I need two kidneys? One works just fine." He is just one amongst thousands of people who have gone to unimaginable lengths to get that half-bitten apple in their hands.

But what exactly does this product-based company practice that entices the masses enough to jeopardize their entire lives?

In this article, let's dive deep into the tactics and policies of Apple that have made it a premium brand.

Exclusive Publicity: Apple has mastered creating hype for its products before they are launched. For years, it has been observed that extensive launch events are held, which are invite-only. Some highlighting features of its upcoming product are released, to tempt the consumers. This generates and hikes up their sales even before the piece is introduced in the industry, by pre-bookings which are of course a tiny number. The strategy here is not to attract a certain crowd, but to make others wonder what makes this product so great, thus falling into Apple's trap.

Attention to user experience: It is quite established that Apple compromises on nothing when it comes to the satisfaction of its users. The products, the package, and the fixtures, all are designed in a manner to not only fulfill customers' needs but also make it an unforgettable experience for them. To quote a former Vice President of retail in this company, "We build products that we want to use ourselves and believe that others will love them as well."

This passion for innovation and user experience sets us apart in the market". Also, the products follow a constant colour scheme, maintain minimalistic designs, and are easy to handle. As a consumer, there is nothing more I could ask for than a charmingly beautiful phone with the latest features. Even the retail stores follow a specific layout and color scheme to appeal to the consumers and make it a seamless experience.

Minimal advertisements and brand setting: This company hasn't often indulged in flashy endorsements but has certainly set a name for itself through collaborations. Apple products are often seen in the hands of various public figures or in cinematic expressions. At the end of the day, we are all humans and bound to be influenced by the actions of those we look up to. This is a subtle but remarkable marketing strategy to highlight its product without drawing too much attention to it. Besides, Apple has never considered other brands as its competition as they have unparalleled faith in the quality of their products. This approach is observed even when it comes to their pricing, which cannot even be compared to Android.

These are some of the observed strategies that set Apple apart from other existing and worthy brands. To an outsider, it may seem that Apple's rise over the years has been an accidental happening. But, if someone were to look at their tactics and business strategies over the years; Apple has certainly earned its name. It all started with a man in a garage with a vision to revolutionize the tech industry.

So, the next time you are in an Apple Store, you don't have to wonder why there are so many digits involved. Be an Apple user or not, now you know its subtle tactics aiding you to make better choices. To sum it all up, Apple has strived to make itself a premium brand and instill in users an illusion of elite status. But all this would have faded and not worked if the products didn't deliver as promised.

Alefiya Hirani
Semester 2
Department of Computer Science & Engineering

Designed By: Aman Shukla



Navigating Today's World: The Intersection of Humanity and AI

Few developments in the vast tapestry of human history have prompted as much intrigue, debate, and excitement as the stunning emergence of Artificial Intelligence. Nowadays, AI is virtually unavoidable, warping nearly every facet of our lives—from the way we work and communicate to how we entertain ourselves and navigate the world around us. As we stand on the brink of a bold, new era characterized by unrelenting technological advances, a poignant question remains: What is the complex interplay between our world and AI today, with all of its promises and pitfalls?

Artificial intelligence, once imagined only in science fiction, has swiftly advanced to influence the very nature of contemporary society. The progression of AI from theory to truth has been noted by substantial transitions, driven forward

examination, and calculating hold the potential for intricate resolutions, and even mimics with impressive

That advent of AI has led day lives in numerous virtual assistants to self-operating medical corporations conduct investigations to consumer conduct, while experts employ AI capacity plan customized treatment intelligence has turned into advanced change sweeping. The avalanche point, however, particularly famous large ChatGPT entered the scene, nor were they readily available to gain traction, AI spread

While advancements in AI increase the scope for opportunities, this technology also poses many complex challenges that must be addressed. As AI systems gain more autonomy and intelligence, issues regarding data responsibility, bias, and user privacy become especially important. The well-known example of algorithms treating marginalized groups unfairly and aggravating present societal biases emphasizes the dangers of progress without oversight. All new technology must be balanced with safeguarding rights and equality to ensure that it enhances lives without harm.

Moreover, the development of artificial intelligence has sparked concerns about job loss and economic turmoil as automation endangers making conventional occupations outdated. While advocates argue that AI will birth fresh opportunities and fuel invention, skeptics caution against expanding gaps and communal disquiet. Therefore, achieving an equilibrium between technological advancement and social accountability is imperative for navigating the intricate nature of our modern world.

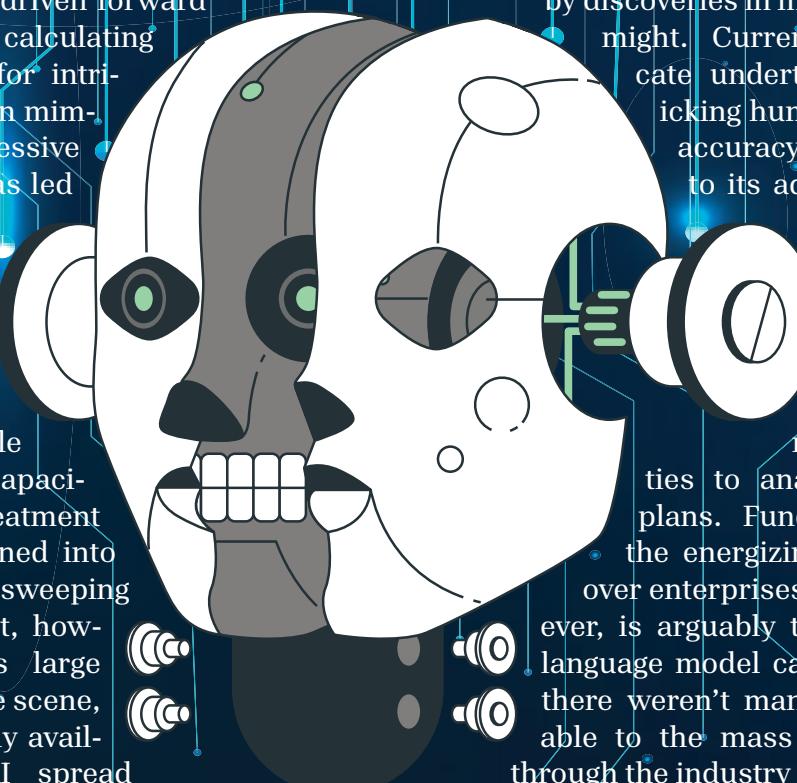
While challenges certainly exist, the capability of artificial intelligence to boost human ingenuity and enable positive change is unquestionable. By enhancing human capabilities and handling repetitive tasks, AI provides worthwhile time and assets that can be assigned

by discoveries in machine learning, data might. Currently, AI frameworks facilitate undertakings, independent of human cognitive maneuverability.

to its adoption in our everyday ways, from like Siri and Alexa vehicles to recommendation systems. Big

data AI driven comprehend medicinal service ties to analyze infections and plans. Fundamentally, artificial the energizing power behind the over enterprises around the world.

ever, is arguably the introduction of a language model called ChatGPT. When there weren't many free AI resources, able to the mass public. But once it through the industry like wildfire.



to imaginative efforts and problem-solving. Whether aiding scientists in medication discovery or supporting humanitarian initiatives in catastrophe reaction, AI possesses the potential to energize innovation and address several of humanity's most urgent issues.

In addition, AI carries the potential to expand access to information and services in a democratic manner, connecting the gap in digital resources and promoting incorporation. With progressions in natural language handling and machine interpretation, AI has the hypothetical capacity to break down dialect obstructions and encourage cross-social correspondence on a worldwide scale. In training, AI-driven customized learning stages can accommodate singular underway needs, changing the manner in which information is imparted and obtained.

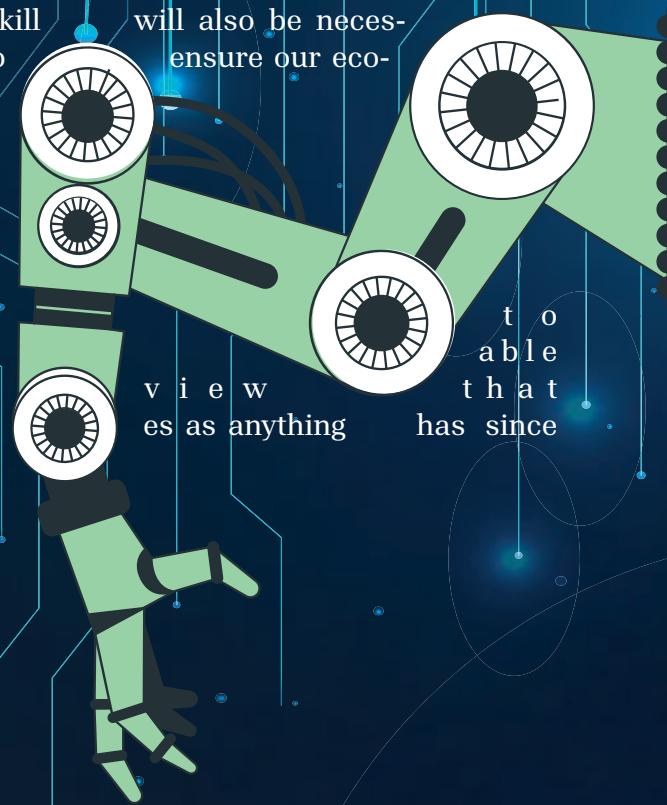
Navigating today's complex technological environment demands forward-thinking leadership to guide emerging tools like artificial intelligence. Collaborating across sectors including education, business, and public service can establish strong guidance for AI's responsible development and oversight. Prioritizing transparency and responsibility ensures these systems are built and applied judiciously, with diligence toward consequences that may affect people. Accountability is key, so progress also considers people and communities.

Finally, investment in education and skill development is critical. We need to provide people with the tools and knowledge to flourish in an AI-driven world. By promoting digital literacy and supporting lifelong learning, we can empower people to harness AI's potential to grow and develop both personally and professionally. Initiatives to reskill and upskill will also be necessary to mitigate the disruptive effects of automation and to ensure our economic prosperity is inclusive.

In conclusion, the world has reached the confluence of the present time and artificial intelligence as a turning point in human history, which is providing, alongside the new opportunities, challenges in every measure hitherto unknown. While AI may encroach literally every aspect of human life, responsible and ethical deployment will prove to be the key enabler in shaping a future that will be sustainable and equal. AI could change this in search of a common goal that would lead to progress and make as transformative changes as the Industrial Revolution.

Arnab Adhikary
Semester 6
Department of Computer Engineering

Designed By: Divyansh Nagpal



RISE OF NANOELECTRONICS

Did you apply sunscreen today? Yes? Are you aware that these fragrant cosmetic creams with cute orange-yellow packaging contain nanoparticles and are made with the same technology you might have heard about in movies or some TEDx videos? Yes, you guessed it right. It is nanotechnology. Are you familiar with the term 'nanotechnology'? It evokes the image of a captivating, cutting-edge technology utilized in crafting miniature, almost magical devices and gadgets, doesn't it? Perhaps it even conjures

thoughts of designing an Iron Man suit. Nanotechnology also seems like a fitting term for describing objects shrinking in size. One might assume that explaining 'Nanotechnology' to a technologically inexperienced child would be impossible and of no use, yet even they can grasp the concepts of nanomaterials and nanoscience just by making them play with the science of sizes and properties.

Nanotechnology encompasses the utilization of nanomaterials across various fields rooted in nanoscience. It's all about the 'nano-nano'. But what exactly is

'nano'? What does it signify? 'Nano' denotes one billionth of something, essentially a unit of measurement. To put it into perspective, a nanometer is one billionth of a meter. Can you fathom its minuscule scale?

To better comprehend this scale, consider a rod measuring one meter in length. Now, divide this rod into 100 equal segments, each representing the width of a human fingertip (approximately 1 centimeter). Further, subdivide each segment into 10 pieces, and you'll arrive at the width of a needle's eye (around 1 millimeter). Continuing this process and splitting it by 10, you'll reach the thickness of a human hair (approximately 100 micrometers). If you split this length by 10 once more, you'll obtain the width of a red blood cell (about 10 micrometers), which, when further divided into 10 pieces, approaches the approximate size of a bacterium (around 1 micrometer). Finally, subdividing it into smaller segments brings us to the scale of a virus (around 100 nanometers), which is 100 times the unit commonly used in nanotechnology, namely the nanometer. The utilization of minute particles finds application across various technological domains and innovative pursuits. Within engineering, particularly in circuitry, electronics encompasses the study not only of electron flow but also the movement of holes or other charge carriers.



Semiconductor investigation is integral to electronics, focusing on materials with conductivity levels between conductors and insulators, hindered by minority charge carriers such as holes in n-type and electrons in p-type semiconductors. Nano-sized objects, referred to as nanomaterials, are deployed in electronics to enhance device efficiency.

Nanotechnology and nanoengineering encompass the production of technology using such diminutive components. Although manufacturing these items presents challenges, their heightened efficiency justifies production, rendering the devices viable in the long term. Analogously, Integrated Circuits (ICs) have demonstrated similar dynamics: while their production costs are high, mass production drastically reduces costs and sizes. This principle extends to nanoelectronics and nanodevices.

There are many applications of nanoelectronics in the real world, such as:

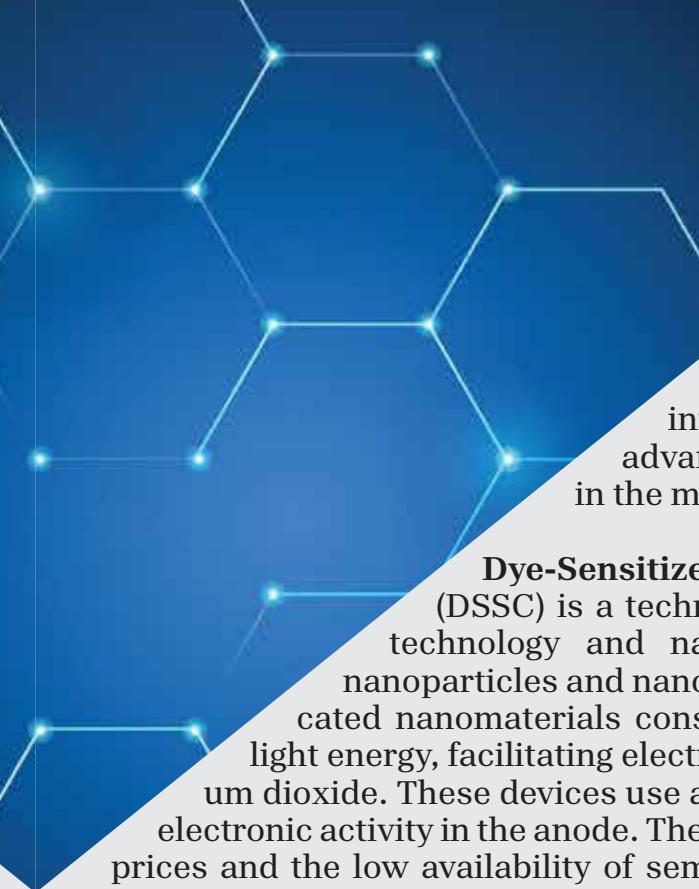
High-density memory devices: The epitome of a groundbreaking stride in information technology is the newly developed technology of high-density memory devices. These

devices are built on the prowess of nanoelectronics. These devices achieved an excellent storage density of around 1 Tb/inch, which very easily surpasses the conventional semiconductor-based solutions.

By meticulously nanostructuring materials and advancing nanofabrication methodologies, high-end devices such as flash memory and non-volatile RAM provide relatively high access time, storage capacity, and sufficiently low power consumption. According to the principles of nanoelectronics, the paradigm shift in data storage is an easier task. These devices will revolutionize the future of storage devices in terms of efficiency, performance, and scalability. These devices are going to flourish in various industries and domestic use and will play a pivotal role in the emerging era of modern computing by reducing the size of memory devices.

High-performance transistors: Electronic devices are incomplete without transistors. To revolutionize electronics, revolutionizing transistors is important. A high-performance transistor is an innovation that epitomizes electronics research in modern times. These transistors are produced by nanostructuring materials such as carbon nanotubes and graphene. By using nanotechnology, their characteristics are unparalleled: sufficiently low leakage currents, higher switching speeds, and improved scalability. These nanomaterials play a pivotal role in the fabrication of transistors. To increase efficiency and miniaturization, proper fabrication is required. Their applications showcase a wide spectrum, starting from telecommunications to advanced computing systems. High-performance transistors have an auspicious future for functionality and levels of performance.

Sensors and detectors: Through the lens of nanoelectronics, sensors and detectors undergo a mind-blowing transformation. Through advancements and fabrication techniques, sensitivity and precision are revolutionizing at a brilliant pace. Infinitesimal changes in pressure, temperature, chemical composition, and biological molecules can be easily detected by utilizing the potential of nanoscale materials with unparalleled accuracy.



Sensors and chemicals leveraged by nanoelectronics offer minimal power consumption, compact dimensions, and increased sensitivity, making them indispensable tools in healthcare diagnostics, scientific research, and industrial usage. Facilitated by nanotechnology, especially nanoelectronics, they can easily detect minute nuances and help reshape innovation through observations and promising advancements in the application of such sensor technology in the modern world.

Dye-Sensitized Solar Cells (DSSCs): Dye-sensitized solar cell (DSSC) is a technology that embodies the fusion of renewable energy technology and nanotechnology. They use nanostructures such as nanoparticles and nanofibers of titanium dioxide and zinc oxide. These fabricated nanomaterials construct the photoanode and help in the absorption of light energy, facilitating electron transfer or electron excitation in the case of titanium dioxide. These devices use a dye to increase the amount of absorption of light and electronic activity in the anode. They have recently undergone a lot of research due to high prices and the low availability of semiconductor material. Energy conversion efficiency is enhanced due to the innovative integration of DSSC and nanoelectronics. This will be a significant step in facilitating a sustainable solar energy revolution through a low-cost and environment-friendly mechanism.

Quantum computing: The most promising and discussed topic in nanoelectronics is quantum computing. These machines provide unparalleled computational power and potential. In terms of nanotechnology, these machines are built with a nanostructure known as Quantum Dots. Other components, such as superconducting qubits and topological insulators, also help in computing at sufficiently high performance. IBM has built a quantum computer, and their research is still going on. Bits (qubits) are the foundations for the execution of quantum algorithms. They use phenomena such as entanglement and superposition. Quantum computing can be used to address complex computing systems such as optimization, cryptography, and material sciences with high efficiency. Nanoelectronics and quantum computing converge to mark a milestone in the field of computing. Their method of approaching the problem with a different path is the USP of these devices. These devices are going to disrupt the whole computation system.

Shaleen Chakraborty

Semester 4

Department of Electronics and Communication

Designed By: Aman Shukla

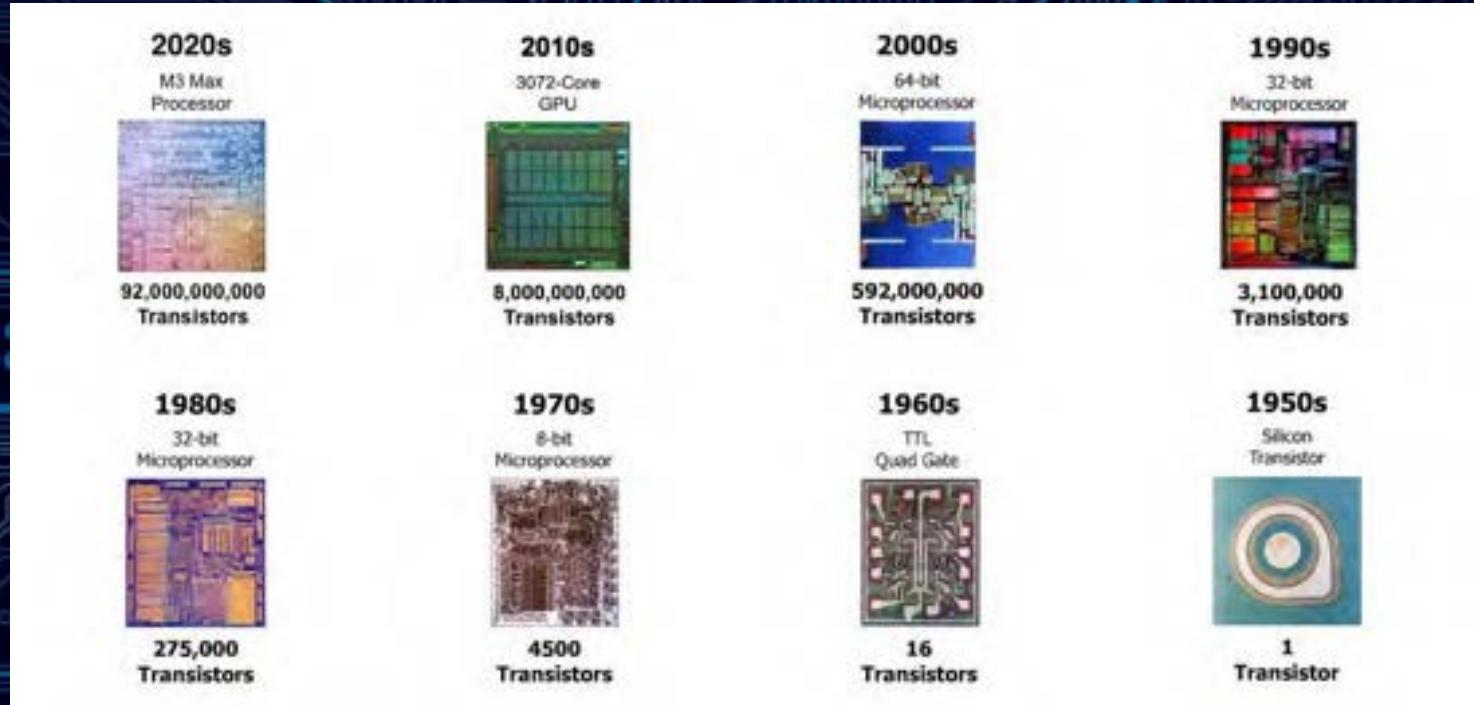


Evolution and Future Prospects of VLSI Packaging

“The technology that most consistently outperforms expectations is VLSI.”

- Carver Mead

The development of VLSI packaging has been phenomenal since it was discovered. It began in the 1960s and 1970s, with individual transistors hand-wired onto circuit boards that paved the way for small-scale integration (SSI) and medium-scale integration (MSI). Later on, the late 1970s witnessed large-scale integration (LSI), which meant several transistors being condensed into one chip, paving the way for small electronic devices. The size of a transistor in the 1970s was approximately 10 micrometres. In the 1980s, a transistor shrank down to nearly one micrometre, indicating Very Large Scale Integration (VLSI). Subsequent technological advancements had resulted in a further decrease in its size.



At the moment, a range of sophisticated technologies are involved in VLSI packaging to cater to diverse applications. In modern VLSI packaging, flip-chip technology, wafer-level packaging, and system-in-package (SiP) integration are some of the notable methods employed. The most exceptional electrical performance and thermal management are provided by flip-chip technology, which directly connects semiconductor chips to substrates. Wafer-level packaging simplifies the assembly process, making it more efficient and reducing production costs. SiP integration brings numerous functional blocks into one package, thereby making it possible to design electronic systems that are compact in size and consume less power.



In addition, technology nodes have been an important aspect of the growth of VLSI packaging and are therefore often used to characterise advancements in semiconductor fabrication technology. Over time, the transistor technology node has experienced a significant decrease. Before the 22nm technology node, the channel length of the transistor was usually considered the technology node. However, when channel lengths went below the 22nm range, the traditional planar transistor architecture faced challenges due to performance and leakage current reduction. This necessitated the adoption of finFET (Fin Field-Effect Transistor) technology, which introduced a three-dimensional structure to the transistor with a fin acting as its conducting channel. Since then, transistors have not just been termed by their gate's length but rather by their “fin” structure, which has been taken up as a descriptive feature.

To conclude, the most recent advancement in transistor technology is known as the Gate-All-Around FET (GAA-FET), which is an upgraded version of finFET. In GAA-FET, the channel is encircled by gate material from all angles, thereby ensuring more control over it and solving problems that may occur due to finFET architecture. The scaling barrier, which restricts further performance improvements in future VLSI designs, could be surpassed, thus driving innovation in VLSI packaging technologies via the improved performances of GAA-FETs.



VLSI packaging is technologically vital, and it is basically applied in different branches, such as the consumer electronics and telecom industries and also in the automobile and aviation sectors. Most importantly, the most recent improvements in semiconductor technology have led some great companies like Apple and AMD to go hybrid with 5nm manufacturing fabrication technology. Apple uses its own M1 processor based on 5-nm technology, which proves modern VLSI on-chip packaging to be highly effective and high-performing. Similarly, AMD's processors, like the Ryzen 7000, are also based on 5nm technology, which shows a more or less widespread adoption of leading-edge packaging techniques that have been comprehensively adopted in the semiconductor industry. For VLSI, proper packaging is not just an optional feature in telecommunications; it actually determines the deployment of the most advanced networking equipment, such as switches, routers, and base stations. Not only that, VLSI packaging is the leading cause of advanced driver assistance systems (ADAS) and user's connectivity, but it also increases the safety of vehicles.

By offering the promise of performance and lower sumption, technologies neous integration, 3D

An illustration of a white laptop with its screen open, displaying a dark blue interface with yellow lines and data. The laptop is positioned on a blue circular base that contains a gold-colored integrated circuit (chip) with multiple pins. The background is a dark blue gradient with glowing yellow circuit board patterns.

superior performance, power consumption, like heterogeneous packaging, and



advanced materials will rapidly move the VLSI packing world ahead in the upcoming years. Moore's Law, which declares the two-year-based doubling of the transistors' count in the chips, still dictates the development of semiconductor technology, leading the way forward in miniaturisation and performance. The integration of heterogeneous technology allows for the stress-free synergy of different semiconductor materials and technologies onto a single chip, making it possible to have unprecedented functionalities and performance. 3D packaging solutions like through silicon vias (TSVs) and stacked die architectures are already allowing for getting rid of chips, which take up space and hence increase system density. In addition to that, it is envisaged to use enhanced materials that possess qualities including electrical conductivity, thermal management, and mechanical flexibility, like graphene and carbon nanotubes. At this stage, transistor sizes may shrink beyond 5 nanometers, and we might see sub-5 nanometer transistors coming into play.

Samsung has been working on 3nm GAA technology for a long time. This is a huge step in the transistor scale; it will improve it and, hence, improve performance. Samsung's effort and success in 3nm GAA technology point out the industry-wide trend towards achieving the best possible performance of VLSI packaging and semiconductor elements in preparation for the next generation of electronic equipment.

For the following years, the sophistication and future VLSI packaging systems have a lot to offer, specifically for microelectronic systems, AI, IoT, and quantum computing. Techniques of VLSI packaging will be at the centre of the technology that will be realised in edge AI devices, where the majority of the data processing will happen. Consequently, the next generation of IoT devices would rely on small and power-efficient VLSI that can fit in a sensor node and a wireless communication module simultaneously without glitch. Along with that, quantum computing techniques efficient for utilising quantum transition to higher levels of computing.

In a nutshell, VLSI packaging holds a key role in modern electronics by improving the overall system and allowing the production of new electronic components.

This field, starting from the very basics and limited to today's state-of-the-art status, is a living proof of how quickly VLSI packaging technology has evolved to meet the imperatives of the industry. For the future, VLSI packaging possibilities remain bright and have a great chance to change the layout of electronics and communication technologies, so we need changes in the way we think.

Ishan Deshmukh

Semester 6

Department of Electronics & Computer Engineering

Designed By: Divyansh Nagpal



The Rise and Fall of Paytm: Unraveling the Journey of India's Fintech Giant

Before becoming the titan of India's digital payments, Paytm embarked on a surprising journey in 2010, not with the tap-and-pay convenience we know today, but by tackling a rather intriguing challenge: the hassle of mobile recharges in a cash-dominated landscape.

Founded by Vijay Shekhar Sharma, Paytm has grown to be one of India's most valued start-ups for the fiscal year 2022–23, with a gross merchandise value (GMV) reported to be ₹13.2 lakh crore (US\$170 billion). Sharma's vision tapped into the growing number of Indians with feature phones, offering a convenient way to top up their airtime. This simple solution exploded, making Paytm synonymous with digital transactions. But today, a shadow looms over Paytm, its future clouded by financial losses, fierce competition, and a recent regulatory blow. So, how did this fintech giant rise so high, only to stumble on its ascent?

THE RISE

Paytm pioneered India's digital payment system. The wallet system, initially introduced in 2014, was an instant hit and a revolution - by 2015, Paytm wallet had around 100 million users. It was gaining popularity but cash was still the king in India. In 2016, this changed. India demonetised its 500 and 1000 rupee notes, and the common man turned to digital payments. The marketing campaign with the tagline "Paytm Karo!" led to Paytm being a household name and necessity. Digital payments surged more even after people recovered from demonetisation due to it being more convenient than carrying cash around. By 2017, it had become the first payment app with more than 100 million downloads. Its competitors, including prestigious companies

like dust in this rat
emerged in the demonetization period attempting to failed to create a comparatage along with being laborations with compa-

cash in on the market demand but ble impact - Paytm had a first mover advantage. Adding to the hype, Paytm's colonies like Uber and Dominos became a great acquisition strategy.

Millions of merchants signed up for the codes which were directly linked to their bank accounts, and users could simply scan the QR to pay, saving the trouble of acting in cash.

Google, were left in the race. Various new startups failed to create a comparatage along with being laborations with compa-

ally in their customer

app. They were issued QR bank accounts, and users them the hassle of trans-



Every business, be it auto-rickshaw drivers to owners of big shops, signed up. By 2021 Paytm had 150 million active users and processed over 1.2 billion transactions. It continued expansion by adding more services like selling tickets for movies or flights and even selling gold insurances. Paytm was making money, and its investors, comprising mainly the Alibaba group, Softbank and Ant Group, were more than happy.

Thus, they decided to take the company public. Paytm launched its initial public offering in November 2021. It was the biggest IPO in India's history then, Paytm raised around ₹18,300 crore (US \$2.3 billion) valuing the company at around US \$20 billion. It was like they had the Midas touch - everything they touched turned to gold. It was as if nothing could go wrong, and then, it did.

THE FALL

Paytm's aggressive expansion was fraught with financial consequences. Doubts arose about its profitability, especially with its core wallet services largely free. Meanwhile, competition intensified, with global giants like Google Pay and PhonePe catching up to them. The cracks widened in 2021.

After Paytm's seemingly stellar stock market debut, its share price dropped, eroding investors' confidence and Sharma's aura of invincibility. When trading began, the price of each share, which was ₹2150 when offered, dropped to ₹1560 just after the market closed. 40,000 Crore of investor wealth had been wiped out in a day. It was a bad crash. The IPO was a huge failure and the start of Paytm's unravelling. The company was called a cash guzzler. Concerns raised, mainly focused on its profitability, scale and several other factors along its direction. Doubts started arising, which brings us to the latest saga, the source of the problem - the Paytm Payments Bank, a subsidiary of paytm, which came into existence in 2017, the same year it got a banking license.

Within months, Paytm Payments Bank faced its first challenge. A regulatory warning was issued by the Reserve Bank of India (RBI), accusing them of multiple violations including non-compliance of the Know Your Customer (KYC) guidelines, which is the process of verifying client identity. Along with that, the day end balances (credit balance in an account in a single day at a specified cut off time) were breached too. In June 2018, RBI halted the opening of new accounts in the payments bank. Paytm responded and a compliance report was submitted, owing to which the ban was lifted. The issue aggravated in 2021, when RBI hit Paytm with a fine of ₹1 crore, claiming that the bank had submitted false information. They

found more concerns, money proceeded to stop and called for an audit with Paytm's non-imposed another hefty warnings. It seems that accounts lacking KYC corruption and money laundering accusations - and it didn't stop there. RBI then prevented the Paytm Payments Bank from acquiring more customers audit by an external firm. Despite this, RBI was unsatisfied regarding the matter. Later the same year, RBI imposed a fine of ₹5.3 crores on the account of negligence despite Paytm didn't learn their lesson, however, as reports of kept resurfacing and rumors about possible fraud, corruption and money laundering were being circulated.



It then that RBI finally put its foot down and issued an ultimatum banning Paytm from all banking activities post February 29, 2024.

THE CHALLENGES AHEAD

The restrictions on Paytm Payments Bank, impacting deposits and new wallet users, significantly limit their current offerings and user base. Paytm needs to explore alternative partnerships, expand existing relationships with third-party banks, and potentially diversify their services to navigate this obstacle. Paytm has struggled with achieving profitability despite its large user base. Their burning cash rate and reliance on discounts raise concerns about long-term sustainability. Diversifying revenue streams beyond basic payments and scaling operational efficiency will be crucial.

The Indian fintech space is fiercely competitive, with players like Google Pay, PhonePe, and Amazon Pay fighting for dominance. What Paytm needs is to differentiate itself through unique features, value-added services, and strategic partnerships to retain its market share. The RBI's actions highlight the importance of strict adherence to regulations. Paytm must prioritize compliance across all its operations to avoid further restrictions and rebuild trust with stakeholders. Recent controversies and regulatory issues have dented Paytm's public image. Rebuilding trust requires transparency, addressing past concerns, and demonstrating ethical business practices.

Beyond these immediate challenges, Paytm will most likely have to deal with future expansion alongside retaining merchants, which is crucial for their ecosystem. Keeping pace with technological advancements and integrating cutting-edge solutions, ensuring data privacy measures and maintaining user trust in data handling. Paytm's success hinges on deftly navigating these challenges. Adaptability, innovation, a focus on sustainability, and regaining user trust will be key to their future in the dynamic Indian fintech landscape.

Amaan Sayyed
Semester 4
Department of Mechanical Engineering

Designed By: Aman Shukla



Customer-Centric Legislation: EU's Drive for Enhanced Support

The European Union is a political and economic union of 27 European countries. It was formed after World War II to foster cooperation and prevent future conflicts between European nations. It started with economic cooperation and has since expanded to include areas like foreign policy, justice, and the environment.

In recent years, the EU has been working to improve customer-centric laws and implementing regulations that will force tech giants like Apple, Google, Facebook (Now META) to mend their ways so that consumers benefit from their services without compromising on security and privacy.

These laws go a long way to facilitating better customer support and, to some extent, reducing e-waste, which has been a major contributor to climate change. These laws have already shown their effects, majorly affecting Apple and Google who have long since their establishment developed an image of distrust when it comes to customer support and privacy respectively.

Some of these laws have been discussed in detail below :

1. *EU General Data Protection Regulation (GDPR)*

- The GDPR is a comprehensive privacy legislation that applies across sectors and to companies of all sizes. It replaces the “Data Protection Directive 1995/46”
- The overall objective of these set of laws is to lay down rules for the protection of personal data and for the movement of data
- The GDPR is far more broad in scope and definition of personal information, which is described as any information that is related to any identifiable living subject, called a Data Subject, such as name, email address, tax ID number, online identifier. It also extends the definition of data processing which includes actions like collecting, recording, storing and transferring data.
- The GDPR applies to any company offering goods or services to EU residents or monitoring their behavior within the EU.

2. *The European Union’s Artificial Intelligence (AI) Act*

- The European Union’s Artificial Intelligence (AI) Act is a significant legislative initiative aimed at regulating artificial intelligence technologies within the EU. With the growing influence of AI across various sectors, the EU seeks to strike a balance between fostering innovation and ensuring ethical and responsible AI development.
- The objectives of the EU AI Act are to create a regulatory framework for AI technologies, mitigate risks associated with AI systems, and establish clear guidelines for developers, users, and regulators.
- The act aims to ensure the responsible use of AI by protecting fundamental rights and promoting transparency in AI applications.

3. *The Cyber Resilience Act*

- The proposal for a regulation on cybersecurity requirements for products with digital elements, known as the Cyber Resilience Act, bolsters cybersecurity rules to ensure more secure hardware and software products.
- Two main objectives were identified aiming to ensure the proper functioning of the internal market:
- Create conditions for the development of secure products with digital elements by ensuring that hardware and software products are placed on the market with fewer



- vulnerabilities and ensure that manufacturers take security seriously throughout a product's life cycle; and
- Create conditions allowing users to take cybersecurity into account when selecting and using products with digital elements.

These three laws were part of a series of laws that were passed in the past few years. They reshaped the major sectors of technology like privacy and security, which were previously being exploited using smartly worded terms and conditions agreements, which led to multiple data breaches, leaving many data subjects directly in the dark cyber world of impersonation, personalized fraud, and other dangerous digital calamities.

India, on the cusp of a digital revolution, can glean valuable insights from the European Union's recent legislation regarding data protection, cybersecurity, and artificial intelligence.

Imagine having complete control over your online information - that's the spirit behind Europe's General Data Protection Regulation (GDPR). It empowers individuals by requiring companies to clearly explain how they use data, obtain explicit consent, and respect your right to delete or access it. India can learn from this by strengthening its own data protection laws, giving citizens more control, and creating a powerful authority to ensure companies play fair.

Similarly, the EU's Cyber Resilience Act recognizes the need for online safety, especially when it comes to healthcare and banking. India can follow suit by building upon these laws in a way that directly helps its own citizens by erecting cyber walls in addition to encouraging and educating its citizens about cyber attacks. Fostering collaboration between the government and the industry is vital to create a united defense against malicious intents.

While the EU's laws are impressive, they might not fit India perfectly. Each region has its own unique social, economic, and legal domain. The key to the perfection of customer-centric legislation is to be inspired by the spirit of these laws and mold them in a way that best suits their own domain of service. This means involving the public in discussions, educating everyone about their digital rights and responsibilities, and creating the capacity to help businesses and individuals comply with new rules.

By drawing inspiration from the own path towards a safer digital hold control over their own data, like a right more than a privilege innovation benefits all. protecting Indian ing a global conversation ogy and emerging as a leader

EU's journey, India should craft its future, one where the citizens where security feels lege, and where This isn't just about citizens; it's about shap on responsible technol in this brave new world.

Amey Ghatol
Semester 2
*Department of Computer Science
and Engineering*
Designed By: Divyansh Nagpal



Space-X launch pads fail-safes

Introduction

In 2012, Elon Musk announced a new venture in space that would be a successor to their previous rocket, Falcon-9. This new rocket was the most ambitious project of the company, with a huge body and weight surpassing over 5,000 metric tons. SpaceX successfully broke the record of thrust previously held by NASA's Saturn V and the Soviet space flight but foreshadowed a long-held goal - Mars, and Elon's personal goal of terraforming craft is supposed to be fully reusable. It means for space flight, like an airplane. Currently, built which increases the cost and manpower now named Starship, began to take place in a ring of the spacecraft have been an incredible saying that figuring out how to manufacture these obstacles, SpaceX was advancing at a 9th November 2020 SpaceX was finally ready to time that a starship was standing at the launch-functioning engine: The strongest one yet. They the fuel lines were working properly, but of concrete were seen flying away. The breaking off the wires in it. The test was a much bigger problem. The internal dripping like liquid magma, it was nothing up as a big setback for Space-X. So, how did SpaceX solve them?

The problem

Heat issue:

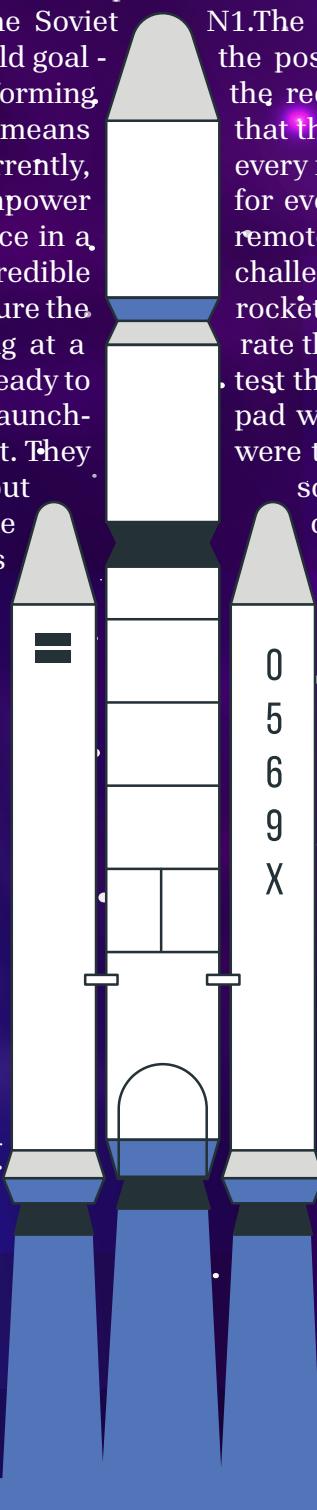
You see, in a traditional rocket launch, with a flame diversion mechanism with rockets. Usually, an angular cone engine to divert the heat. Space-X instead, the heat and force got in direct created a pressure point that prompted starship launchpad made heatproof?

Strongback:

The launchpad also lacks what is the huge tower that flings off as soon as for fuelling purposes with the fuel. However, the fuel lines in the starship dock with other rockets and refuel "strongback" must be left away also, it ability since Space-X wants a launch-rocket ready for operation in hours.

Sound issues:

The final trial for SpaceX's starship was suppressant. This is required because the gases coming out exceed the creating a shockwave that damages rocket but also the launch-



N1. The project was not just another gig in the possible future of a crewed mission to the red planet. Adding to that, the space- that the vehicle can be used multiple times every mission needs a new spacecraft to be for every mission. In 2018, the spacecraft, remote area in Texas. The design and build- challenge with Elon Musk coming out and rocket has been way more difficult. Despite rate that left a lot of people astonished. On test their ambitious project. It was the first pad with a fully manufactured body and a were testing with only one engine to see if

soon after the test began, fiery pieces concrete then flew into the engine repeated the next day only to result in engines had melted and were now ing but molten metal but it did end what caused these problems? and

the launchpad is always equipped because this is a common problem struction is built just beneath the however wasn't equipped with one, contact with the concrete and the concrete to fly off. Why was the We'll get back to that in a second.

known as a "strongback" which is the rocket lifts off. It is usually used lines on the side of the rocket.

are at the bottom so that it can mid-air. This would mean that the would be a step down from reus- pad so dynamic that it can make the

the complete lack of an acoustic when the engine ignites speed of sound es not only the pad.



This is usually solved by using water to absorb the sound waves and convert the sound energy to heat energy. But this is not the only way to solve the issue. We'll get to the alternative in a bit.

The solution

So why did SpaceX with such experienced scientists and technicians not foresee these issues to begin with? Does this raise questions about its credibility and competence? Well, no you see SpaceX has ambitions that far exceed the traditional ones. They wish to land their rockets on Mars which will not provide them with a pad; obviously. So SpaceX was experimenting without a heat deterrent on their launch pad however Elon Musk has finally come out to say that they are working on a water-cooled launch pad recently. [4] The common theme in these starship tests is that they are trying to get away with as many things as they possibly can. One such way they do it is by using a material called martyte which is coated over the concrete. This coating doesn't allow the heat to penetrate the concrete but during this particular test, it wore off exposing the concrete that got caught up. While this is practical when we are talking about interplanetary conquests and colonization it does raise some safety issues regarding the astronauts.

For their second issue, they wish to get rid of the strongback since it would mean that the fuel lines have to be on the side of the spacecraft. The starship, however, wishes to have the fuel lines on the bottom so that the rockets can dock and refuel while in the air as stated earlier. To counter this the strongback must be resistant to debris and engine heat. Since this time, it cannot withdraw itself quickly to save itself from those damages. SpaceX has now started research for stronger materials and designs [5]. Animations depicting the final idea are already out which shows the strongback practically lifting the top of a rocket and fitting it on the body all by itself. This will eliminate the long and tedious processes and fatigues that come with using humans for the purpose of speeding the process up.

The third and final issue in a starship launchpad is the sound issue since the sonic shock waves are hard enough to damage the rocket's engine and surroundings. Water is a good suppressant as the bubbles in the water capture air and vibrate due to sound so all the energy is expended in the vibration of said bubbles that produce heat. However, there is also another way to tackle this problem which is to have a big void just beneath the rocket ship so that the sound simply doesn't have anything to destroy. This solution is used in places where water cannot help like the soviet rocket in Kazakhstan where the temperatures go up to -40 degrees Celsius the water in this case will freeze. SpaceX however, has to not only account for extreme temperatures during landing but also preserve the spacecraft enough to be safe for a crewed mission and reusability. This is solved in the lunar version of the starship by simply placing the landing engines 40 meters above the lunar surface so that the debris is not flung off. On Mars, however, the gravity is much stronger so the starship engineers have decided to shield the wirings and vulnerable areas of the engine to protect itself.

Conclusion

As humanity inches closer to crewed missions to Mars and the moon, SpaceX continuously makes way ahead of its competition to turn this dream into a reality. With the recent advancements in technology and the support from NASA which initially refrained from showing confidence in Musk. The future of a space colony begins to sound less of science fiction, despite the latest tests failing in April of this year (2023) with the self-destruct command lagging to respond by about 40 seconds[6] the team at Space-X refuses to let go of hope. Elon Musk has now said that the next test will be conducted very soon and the future looks ever so bright.

With so much happening around us at such a rapid pace, we can only sit back and watch in awe at what our species is capable of.

Aditya Ranjan

Semester 4

Department of Computer Engineering

Designed By: Divyansh Nagpal



INSIGHTS FROM THE INCHARGE

As the incharge of Bhartiyam 2024, the annual techno-cultural fest of Bharati Vidyapeeth, College of Engineering, Pune, I extend my heartfelt gratitude to all the teams and departments for making the event a huge success. This success wouldn't have been possible without the unwavering support, dedication, and active participation of each student and faculty member at our college. They have truly made this event a memorable and resounding success.

I extend my sincere thanks to the incredible team of volunteers who worked tirelessly behind the scenes. Their commitment and passion were evident in every detail, ensuring a seamless and enjoyable experience for everyone involved. I am honoured to have had the privilege of leading such an extraordinary group.

Lastly, I express my gratitude to all the attendees—students, faculty, staff, and guests. Their presence added immeasurable value to the event, creating an atmosphere of joy and camaraderie. As we reflect on the success of this gathering, let it serve as a reminder of the incredible things we can achieve when we come together as one college family.

Thank you all for all the invaluable contributions and for making BHARTIYAM 2024 a truly unforgettable occasion.



Dr. Pramod Jadhav
Bhartiyam Incharge



INSIGHTS FROM THE CO-ORDINATORS



Dr. Sudhir Kadam
Co-ordinator, Bhartiyam

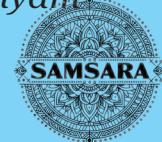
As an engineer, I have worked on several projects with several teams, and amongst the duties that bring me the most satisfaction is the role of Bhartiyan's coordinator-in-charge. It's this time of the year when all the young engineers-in-the-making work together with the faculty to facilitate a very rich and happening fest. This year's theme of Samsara provides us with a fresh perspective to incorporate in our lives as well as in our academics. Engineering is all about repeated failure on the path to success, and the philosophy of impermanence that Samsara propagates is exactly the kind of uplifting mindset that we need. Having been in the loop with student bodies across departments, I am elated, to say the least, about the influx of ideas this year. On that note, I am very pleased with the contents of this year's magazine. Ranging from poetry to technical articles, Genre 2k24 is a testament to the fact that our students can do it all! Here's to a memorable fest!

Engineering is more than just studying, but also about learning. Technology is ever-changing, and if there's a skill that will always remain relevant in an engineer's profession, it's the capacity to learn. This year's theme, Samsara, holds much value in the life of an engineer, both personally and professionally. I am extremely pleased with the choice of theme for Bhartiyan this year. The sheer dedication and effort put into blowing life into the philosophy of Samsara shines throughout the various events of Bhartiyan as well as the college magazine, Genre 2k24. Yet another year has passed, and yet another edition of the magazine continues to impress me. The Editorial Board has done a commendable job in bringing this vision alive on paper, and the other student bodies have also contributed wholeheartedly to bring memorable joy to Bhartiyan's events.

As the coordinator in charge, the success of Bhartiyan carries deeper personal significance for me. I wish the entire student body a great learning experience and success in all their future endeavors.



Prof Gajanan Bhole
Co-ordinator, Bhartiyam



INSIGHTS FROM THE HEAD OF ART CIRCLE

When I was first informed of this year's theme for the college magazine, Samsara, I couldn't help but wonder how fitting it was given the current global context. Samsara signifies the cyclical nature of existence and the continuous journey of life, a concept deeply rooted in Eastern philosophy. The 500 BCE Greek philosopher Heraclitus also championed this ideology, and I can think of no reason to contest it. A lot has changed during my tenure at this college, and at an unprecedented rate, reflecting the ebb and flow of life in the grand cycle of Samsara. It gives me great pleasure to state that most of these changes have been for the better.

Keeping up has always been a challenge in the ever-turning wheel of Samsara, but when have we ever shied away from that? However, it shouldn't always be like that. At times, we must take a step back and introspect, recognizing the lessons that the cycle of life teaches us.

I believe that to be able to view a certain perspective, you have to be in that spot within the wheel of Samsara. What I've realized over the years is that to be a leader is to be decisive, and you won't always make the right choice in the complex dance of life's cycles. No matter the position that you're in, it is only human to err. But the ability to acknowledge one's shortcomings is what makes you worthy of the shoes you're in, as you navigate the continuous journey of Samsara.

In the end, I would like to congratulate the editorial board for coming up with this extraordinary theme of Samsara and bringing it to life alongside our annual fest, Bhartiyam 2024. After four years of anticipation, the efforts put in by the students and the faculty are coming to fruition, and I, for one, couldn't be more proud.



Prof. Gauri Rao
*Faculty Incharge,
Art Circle*



MESSAGE FROM THE HEADS OF DEPARTMENTS



In the grand tapestry of "Samsara," where time weaves its intricate patterns, our journey unfolds. Picture our technological landscape as a vibrant Mandala, with each student, faculty, and enthusiast contributing their unique brushstroke to this ever evolving masterpiece. To explore the synergy of tradition and innovation, much like the dance of creation and destruction in the cosmic cycle of Samsara. Let our codes be the mantras, our algorithms the rhythmic beats, and our innovations the celestial dance. Explore the uncharted and create a harmonious symphony of technology and culture. May this edition echo with the rhythms of Samsara, fostering creativity and awakening the dormant possibilities within. Wishing you an extraordinary exploration at "Bhartiyam"!

Prof. Dr. Sandeep Vanjale

*Head Of Department,
Computer Engineering & Information Technology*



I extend my sincere regards as the head of the Computer Science Engineering Department at Bharati Vidyapeeth College of Engineering, Pune. It is with great honour that I share reflections on our collective journey. As custodian of this esteemed department, I encourage each of us to embrace the challenges and opportunities inherent in our field. With computer science and business systems at the forefront of modernization, let us cultivate an environment of continual learning, creative exploration, and collaborative problem-solving, utilising modern methodologies and advancements. Together, let us foster a culture of curiosity, teamwork, and ongoing growth. With our collective efforts, supported by our diverse strengths and perspectives, we can redefine the boundaries of innovation and excellence, ensuring that our journey remains a testament to academic achievement and professional success.

Prof. Dr. Bindu Garg

*Head Of Department,
Computer Science and Engineering &
Computer Science and Business Systems*





Our annual college fest embracing the profound theme of 'Samsara: The Cyclicity of Life'. This year, we delve into the intricate rhythms of existence, reflecting the perpetual journey of birth, growth, decay, and rebirth that defines life's cyclical nature. Through innovation, creativity, and technological prowess, we aim to explore the depths of this timeless concept. 'Bhartiyam 2k24' serves as a platform for students, faculty, and participants from diverse backgrounds to come together and celebrate the interconnectedness of all living beings. Together, let's embark on a transformative voyage of self-discovery and enlightenment at 'Bhartiyam 2k24', where the essence of life unfolds in all its splendour.

Prof. Dr. D.S Bankar

*Head Of Department,
Electrical & Computer Engineering*



As the head of the Mechanical Engineering & Robotics and Automation Department, contemplating the theme of 'Samsara' unveils intriguing parallels between the cyclical nature of existence in Eastern philosophies and the perpetual journey of innovation and problem-solving in mechanical engineering. Much like the continuous cycle of birth, life, death, and rebirth in Samsara, the field of mechanical engineering is marked by an incessant process of evolution and adaptation. Both domains underscore the importance of a holistic approach, acknowledging the broader implications of choices and actions. Ultimately, just as the goal in Samsara is liberation from the cycle, mechanical engineering encourages the pursuit of excellence and breakthroughs as a form of liberation from existing technological limitations, pushing the boundaries of what is achievable and perpetuating the dynamic and evolving nature of engineering endeavours.

Prof. Dr. K.B Sutar

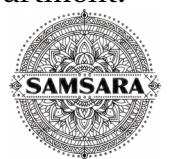
*Head Of Department,
Mechanical Engineering & Robotics and automation*



As the head of the Department of Civil Engineering, I am committed to fostering an environment that encourages intellectual curiosity, innovation, and collaboration. Our faculty members are experts in their respective fields, dedicated to imparting knowledge and nurturing the next generation of civil engineers. To our returning students, I encourage them to continue pushing the boundaries of their learning and exploring new avenues within civil engineering. To our new students, I extend a special welcome and urge them to embrace the challenges and opportunities that await them. Together, we can make meaningful contributions to society and leave a lasting impact on future generations. I am confident that by working together, we can achieve great things and uphold the proud legacy of excellence associated with our department.

Prof. Dr. Milind Gidde

*Head Of Department,
Civil Engineering*





"As engineers, we are the artisans of Samsara, sculpting the future with each iteration, and our creations echo in the corridors of time." The theme of Bhartiyam 2k24, Samsara, captures the cyclic nature of innovation, where each design iteration, each problem solved, and each breakthrough achieved becomes a step in the timeless swan of progress. In the modern era, engineering samsara is not just about progress; it's about dancing in harmony with nature. Through the techno-cultural festival Bhartiyam, we witness the transformative power of engineering every year. All the best for the Bhartiyam-2k24.

Prof. Dr. Shruti Oza

*Head Of Department,
Electronics & Telecommunication Engineering*



As the head of the Department of Chemical Engineering, I find myself filled with an indescribable sense of enthusiasm and anticipation as we approach the grand spectacle that is Bhartiyam 2k24. This year's annual event holds a theme close to my heart: "Samsara: The Cyclicity of Life," a theme that not only resonates with the very fabric of our existence but also promises a profound exploration of the intricate cycles that govern our journey through life. Bhartiyam, has always been a celebration of diversity, talent, and the rich tapestry of our cultural heritage. This year, as we delve into the philosophical depths of Samsara, I am particularly excited to witness how our students, faculty, and participants interpret and express the essence of this profound theme. Join us in embracing the essence of Samsara and making Bhartiyam 2k24 a memorable ode to the interconnected cycles that shape our lives

Prof. Dr. Prakash Chavan

*Head Of Department,
Chemical Engineering*



As the head of Electronics and Communication Engineering, I'm thrilled to welcome everyone to 'Bhartiyam 2k24', our annual college fest themed 'Samsara: The Cyclicity of Life'. This year's theme dives into the deep currents of life's journey, highlighting its cycles of growth, change, and renewal. At 'Bhartiyam 2k24', we're offering a space to explore these profound ideas through innovation and technology. It's a chance for students, faculty, and enthusiasts to come together, blending tradition with modernity and discovering the rich tapestry of existence. Let's embark on this exciting journey together, celebrating our diversity and shared experiences. 'Bhartiyam 2k24' isn't just a fest; it's an opportunity for us to connect, learn, and grow. So, join us as we unravel the mysteries of life's cycles and find inspiration in the beauty of our collective story.

Prof. Dr. Arundhati Shinde

*Head Of Department,
Electronics & Communication Engineering*



COLLEGE OF ENGINEERING

JOINT SECRETARIES



Mandeep Pathak
Art Circle



Husain Motiwala
Chemical



Adityaraj Desai
Civil



Syed Sultan
Computer



Mrinank Mahajan
CSBS



Akshay Chug
CSE



Sakshi Shitole
Electrical



Priyank Srivastava
Electronics



Aayush Gupta
E&TC



Vishal Vasistha
IT



Anmol Singh Rathod
Mechanical



Ashish Goswami
R&A

COLLEGE OF ENGINEERING



STUDENT ASSOCIATIONS



IICHE

In the world of academia, student societies play a pivotal role in shaping the educational experience. Among these, the International Institute of Chemical Engineers (IICHE) stands out as a beacon of excellence, cultivating a culture of innovation and academic prowess.

TechSymposium: This annual symposium brings together students, faculty, and industry professionals to explore advancements in chemical engineering. TechSymposium provides a platform for knowledge exchange within the IICHE community.

InnoChallenge: This competition challenges students to apply their knowledge to solve real-world problems in the field of chemical engineering. Teams brainstorm and present their innovative solutions.



ETSA

ETSA [Electronics and Telecommunication Students Association] of BV(DU)COEP is the official student body of the Electronics and Telecommunication Department. Apart from academic and technical activities, the student association also organizes co-curricular activities such as sports, debates, writing, designing, and several more.

Achievements:

BGMI Tournament: On January 27, 2024, ETSA organized a gripping Battle Ground Mobile India (BGMI) contest, showcasing the prowess of 54 squads comprising 214 participants.

Old Age Visit: ETSA successfully organized a visit to an old age home on 6th February, 2024, under the guidance of Dr. Pallavi Deshpande at Matoshri Old Age Home.

Tree Plantation Drive: ETSA conducted a tree plantation activity that aimed at creating awareness regarding climate change and its adverse effects on humans and ecosystems.





CESA

The Civil Engineering Student Association (CESA) of BV (DU) COEP serves as a vibrant hub for students within the civil engineering discipline, CESA organises seminars, guest lectures, and career fairs, connecting students with internships, co-op placements, and job opportunities.

A social activity was organized in 2023 regarding the cleanliness drive program at Taljai Hills, Parvati, in the Pune district. The CESA members and teaching faculty conducted social awareness campaigns regarding the harmful effects of plastic and how it depletes the environment.



CESA offered valuable opportunities for students to develop essential skills and network with industry professionals. Students had access to practical experiences such as site visits, design competitions, and research projects. These hands-on activities complemented classroom learning and helped students prepare for real-world challenges in the field of civil engineering.



ACES

The Association of Computer Engineering Students (ACES) is the official club of the Computer Engineering Department. Testament to the cachet of the club are the wide array of events and competitions that take place on an ever-regular basis.

Drishti: To explore where India will stand after its 100 years of independence, an event named “DRISHTI” was organised, where eight teams from the varied departments attended the event to present their views on the concerned topic.



Guest lecture on Software Engineering Industry: 82 students from the Department of Computer Engineering attended the introductory lecture on SDLC that was expertly delivered by Mr. Srijan Srivastava.

Guest Lecture on Higher Studies Abroad: A seminar on “Higher Studies Abroad” was organized. Mr. Rajarshee Banerjee, a BVP alumni, conducted the seminar.

SYTYCS: As part of Bharatiyam 2023, ACES organised the highly anticipated technical event, SYTYCS (So You Think You Can Solve), a thrilling and challenging opportunity that pushes the limits of your problem-solving and critical thinking.





MESA

MESA, the Mechanical Engineering Students Association of Bharati Vidyapeeth (Deemed to be University) College of Engineering in Pune, plays a pivotal role in fostering the growth and development of mechanical engineering students. Established as a student-led organization, MESA serves as a platform for students to engage in a wide array of academic, professional, and extracurricular activities. Moreover, MESA encourages innovation and creativity among its members by facilitating project exhibitions, idea incubation sessions, and mentorship programs. By fostering a culture of collaboration and knowledge sharing, MESA empowers students to explore their interests, pursue their passions, and make meaningful contributions to the field of mechanical engineering. Overall, MESA plays a vital role in nurturing the holistic development of mechanical engineering students, preparing them to excel in their academic pursuits and become competent professionals capable of addressing the complex challenges of the industry.



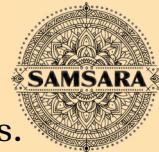
DCSE-CSBS

The Department of Computer Science and Business Systems (DCSE-CSBS) at Bharati Vidyapeeth College of Engineering, Pune, is dedicated to facilitating a seamless integration of business principles with technological innovations. Our objective is to provide students with a comprehensive educational experience that amalgamates foundational computer science concepts with pragmatic applications in the corporate realm.

Equipped with a blend of technical understanding and business insight, they are prepared to drive transformative initiatives across diverse industries, leveraging cutting-edge technological solutions.

During BHARATIYAM, our esteemed annual techno-cultural festival, the DCSE department orchestrated highly acclaimed online gaming events such as LEVEL UP and FIFA gaming. These events garnered enthusiastic participation from freshmen, underscoring our commitment to providing engaging extracurricular experiences in tandem with our academic offerings.

The DCSE department remains steadfast in its dedication to fostering an intellectually stimulating environment conducive to the holistic development of our students, preparing them to excel at the intersection of technology and business.



COLLEGE OF ENGINEERING



RAESA

Established in 2021 at BV(DU)COEP, RAESA (Robotics and Automation Engineering Students Association) caters to students in the Robotics and Automation branch. We aim to provide practical exposure to real-world applications, foster competitiveness in robotics competitions, and nurture creative skills. Through workshops, seminars, and a variety of events encompassing both technical and extracurricular activities, we empower students to excel academically and professionally. RAESA serves as a vibrant community where students explore, innovate, and collaborate, preparing them to be future leaders in the field of robotics and automation.



Roborace:

RAESA hosted an electrifying intercollege Roborace, showcasing cutting-edge robotics innovations. Students from various colleges competed fiercely on the track, demonstrating their creativity and technical expertise in this thrilling event.

Chess Competition:

RAESA organized an engaging inter-departmental chess competition, emphasizing strategy and intellect. Students showcased their tactical skills and individual prowess in this mind sport, exemplifying RAESA's dedication to nurturing diverse skills within its community.



ELECSA

We are delighted to present to you ELECSA, our prestigious institution's vibrant departmental club for Electrical and Computer Engineering. As a leader in creativity and friendship, ELECSA regularly plans a wide range of events, seminars, trips, neighborhood drives, and enjoyable activities throughout the academic year.



ESCAPE LAB

The 'Escape Lab' was a one-day event hosted by the Association of Students of Electrical Engineering on March 29, 2022. Participants had to go through mathematical puzzles and questions using hints to uncover the answers concealed beneath the surface. The event was attended by forty attendees in all, representing different departments.

HIGH-SPEED HEADGEAR

As part of its annual tech-cultural event, "BHARTIYAM 2K23," the Department of Electrical and Computer Engineering organized a riveting event called "High-Speed Head Gear. In a one-on-one competition, the fastest competitor to complete the entire course was crowned the winner.





DCOE DCSE-CSE

BV(DU)COE PUNE

The Department of Computer Science and Engineering (DCSE) at Bharati Vidyapeeth College of Engineering, Pune, is aimed at fostering creativity, collaboration, innovation, and technological excellence. Our vision is to create a community of high-minded individuals well-trained to manage the challenges of the digital era. Our students emerge as efficient professionals, well-prepared to navigate the complexities of corporate giants. With proper technical expertise, they are ready to drive transformative initiatives across diverse industries, utilising cutting-edge technological solutions.



iTSA ITSA

The Information Technology Students Association (ITSA) at Bharati Vidyapeeth College of Engineering in Pune is a student organization dedicated to providing IT (information technology) enthusiasts with a platform to collaborate, share knowledge, organize events, and foster a sense of community within the educational institution.

ITSA organizes workshops, seminars, technical events, and other activities facilitating networking opportunities, industry interactions, and skill development programs for its members. Overall, ITSA contributes to the holistic development of students by complementing their academic curriculum with practical experiences and providing a sense of belonging to a larger community of like-minded individuals.



TECHVENTURE: 'Master the Galaxy' an exhilarating event organized by ITSA with integration of space and technology, invited participants to compete for cosmic supremacy. Attendees had a thrilling journey into the cosmos as they engaged in challenges that pushed the boundaries of their technological prowess. Techventure extended an opportunity to explore the frontiers of space and harness the power of technology to conquer new horizons.



COLLEGE OF ENGINEERING



ECSA

ECSA (Electronics and Communications Student Association) comprises students from the Electronics and Communications department of Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune. This association works to organise various core technical, non-technical and cultural events. ECSA has conducted and participated in various events and has organised project exhibitions hence displaying its penchant for the Electronics domain. ECSA's aim is to train and improve students' skills in domains of technical, creative, designing and marketing fields.



Teacher's Day Celebration: A light, happening and warm programme appreciated by all faculty members and the students of our association.

Chandrayan Video making Competition: ECSA conducted a video making competition on the occasion of success of India's Chandrayan Mission.



TECHNICAL CLUB



Entrepreneurship Development Cell of Bharati Vidyapeeth (Deemed to be) University, College of Engineering, Pune (abbreviated as EDC BV(DU)COEP) is an umbrella group that promotes the productive environment of Entrepreneurship and Innovation throughout the campus. EDC's prime motive is to invest its time and all the resources to create a better tomorrow with everyone working towards the betterment of our society.

Longing to the very foundations of EDC, the phenomenal cell of our college was founded in the year 2013 which makes it 10 years old. For such an experienced cell, there is always a strong set of founding hands. In our case, those hands were of Mr. Vaibhav Goel who was phenomenally supported by the Principal of our prestigious institution, Dr. Anand Bhalerao who was nothing but immensely supportive since the very beginning of this entrepreneurial era of our college.

Speaking of the Entrepreneurial era, since its beginning, there have been a lot of milestones our cell has crossed, some of which are our super-successful series of events and the celebrations that

follow. The EDC has been conducting a yearly hackathon for years which ranked its way to become Maharashtra's best Hackathon, we organize it under the name of "HACKITAS." Every year, EDC organizes an annual E Summit wherein we celebrate various entrepreneurial achievements of not only our college but of the whole city, one of our popular events is the Start-Up Bootcamp that was introduced to the world as a business hackathon by our very own Mr. Kumar Shrey and his capable team of brilliant minds in the year 2019. Last but not the least, we would also like to celebrate the fact that EDC BV(DU)COEP was ranked Maharashtra's second most active Entrepreneurship Cell after the E Cell of IIT Bombay.

Talking about Start-Up(s) and not mentioning the ones EDC helped inbreeding would be no justice, thus, we would like to mention that to date EDC has helped more than 25 flourishing Start-Up(s) to shape a better tomorrow. Some of which are Intellico Labs, ScootyWala, MovAds, Genjour, Ed-Viser, DiscoverAd, FoodStop, Wisey, Circle Blink and, Quiseene.



BLOTIC BV(DU)COEP, a Web3 start-up, guides novices into the world of Web3 technology, fostering a nationwide community of blockchain enthusiasts.

They establish college chapters, host events, and collaborate with experts, facilitating networking and internships.

The goal is to transition from Web2 to Web3, encouraging collaboration and innovation. This year, they hosted a spectacular event, "Blockchain Beyond Borders," led by Mr. Raj Kapoor, which explored Web3's significance and opportunities. Where students engaged and gained insights on blockchain's potential. With inputs on Polygon and resources, the event inspired attendees to embark on their Web3 journey.

Next on the list is BLOTIC's most prominent event of 2023. In Bharatiyam 2023, they hosted "The Virtual Matrix: The Madness of Metaverse," which transcended attendees into an exhilarating virtual realm. This gave the audience a stirring experience of the stimulated world, varying from roller coasters to horrors and several more. Exciting gadgets like the 360-degree rotating photo booths were installed, which captivated a vast crowd.

With this, BLOTIC remains steadfast in its commitment to achieve its goals, determined to make our college exceptionally proud. With a dedicated team and a vision for excellence, BLOTIC is set to continually contribute to the college's success, stimulating innovation, imparting knowledge, and building a dynamic community.





Google Developer Student Clubs

The Google Developer Student Club at Bharati Vidyapeeth is a dynamic community dedicated to empowering students with the latest tools, technologies, and resources in the world of Google and beyond. Our club serves as a hub for students to delve into a wide range of topics such as mobile app development, web technologies, machine learning, artificial intelligence, cloud computing, and more.

Through a series of workshops, hackathons, guest lectures, and hands-on projects, we aim to inspire creativity, encourage innovation, and nurture the next generation of tech leaders. Our diverse team of passionate student leaders and mentors is committed to creating an inclusive and supportive environment where everyone can thrive and excel.

Whether you're a beginner looking to explore the exciting world of technology or an experienced developer seeking to expand your skill set, the Google Developer Student Club at Bharati Vidyapeeth welcomes you to join our community and embark on an enriching journey of learning, collaboration, and growth.

One of our notable events was the Google Cloud Study Jams, where over 70 students participated and completed their Google Cloud training certification. Each participant was awarded a Google Cloud water bottle, a Cloud Study Jams t-shirt, and a sticker as a token of recognition for their dedication and achievement. This event not only equipped students with valuable skills in cloud computing but also fostered a sense of camaraderie and achievement within our community.



There is a thriving community called the GeeksforGeeks Student Chapter (commonly known as GFG) that aims to encourage students' interest in technology and programming. Students participate in a variety of tech-related events, workshops, and activities organised by GFG, which helps them advance their knowledge and abilities in the sector.

Hacktober Fest is amongst GFG's signature events, where they provided attendees with insightful lessons on Git fundamentals, open-source contributions, and the importance of Hacktober Fest in the IT community. This program included thought-provoking speaker sessions, hands-on workshops, and an engaging quiz to gauge the attendees' comprehension and promote active participation.

Another notable event is the Three90 Challenge, which tested participants' technical knowledge and problem-solving abilities in a fast-paced setting. In addition to participating in rapid-fire rounds of problem-solving exercises, participants earned interesting prizes for their accomplishments.

The GeeksforGeeks Student Chapter seeks to foster a vibrant community of tech enthusiasts by offering students chances to learn, develop, and interact with like-minded peers in the fascinating world of technology through these and many more activities.



The IEEE (Institute of Electrical and Electronics Engineers) Club at Bharati Vidyapeeth's College of Engineering, Pune, serves as a dynamic platform, fostering innovation and collaboration among students who are passionate about technology and engineering. Their mission is to provide a supportive environment where members can explore their interests, develop new skills, and network with peers and professionals in the vast realm of engineering.

IEEE Communications Magazine provides timely information on all aspects of (electrical/electronic) communications. The magazine covers services (telecommunications, multimedia, Internet, and digital), networks (including their software development as well as underlying infrastructure), device technology, support systems, and transversal topics like artificial intelligence applied to telecommunications, market trends, strategy, and regulatory issues. Articles are tutorial in nature and written in a style that is comprehensible to readers outside of the specialty of the article. These articles are complemented by non-indexed columns.

Our workshops and seminars provide hands-on learning experiences and insights into cutting-edge technologies such as robotics, artificial intelligence, networking, and renewable energy. Through interactive sessions led by industry experts and faculty members, students gain practical knowledge and skills that complement their academic studies.



MOZILLA



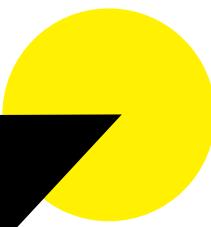
Dive into the world of innovation with the Mozilla Campus Club at BV(DU)COEP, a dynamic group of tech enthusiasts and inquisitive students. Our mission is to foster a vibrant learning community, promoting the exchange of technical insights through engaging events and workshops. As a proud division of the Mozilla India community, our reach extends far beyond campus borders.

We strive to connect with tech enthusiasts all over the region, offering workshops, events, and seminars that delve into the latest technological advancements shaping our digital landscape. At the core of our club's ethos is our dedication to providing guidance and mentorship. We aim to empower students and tech enthusiasts, equipping them with the skills to navigate the real world confidently.

Our club has curated a diverse array of events, ranging from the captivating Mindsweeper Sessions on virtual reality (VR), machine learning (ML), web technologies, design principles, Photoshop mastery, and an exploration into the intricacies of blockchain technology. Each event offers a unique opportunity for learning and skill development in various facets of the ever-evolving tech landscape.



CLIXZY



Photography is much more than just having a camera and taking pictures. A Newly formed club, CLIXZY, is the Photography and cinematic crew of BV(DU)COEP who knows what makes a photograph "good". We not only focus on capturing the best moments of our life at college rather but also provide a platform to enthusiasts to showcase their talent and hone their skills by learning from the vast experience of our skilful team. During our short interval of three months working, we have covered the Alumni Shoot of our college and made videos portraying the wonders of the campus. We are looking forward to engaging and connecting with even more people in the future. CLIXZY is the first and only official cell of BVDUCOEP which works ON-Camera. Future prospect in Clixzy is that we are working with amateurs and transforming them into photography majors by conducting workshops and equipping them with skills in domains like photography, cinematography, video editing and a lot more. And with this strategy we can assure that a day will come when Clixzy will be the synonym of photography. We have set in motion a cycle which will help many yet to come. And as they say-WE HAVE NOWHERE TO GO BUT UP. Clixzy plays a very vital role in the college as photography is all about capturing the moment. We showcase the best of our work by capturing all the moments very keenly and precisely. Being the "official photography cell" of the college we hold utmost dignity in enhancing and showcasing our talents in all sorts of official shoots and events. Clixzy from day one has started its work with full throttle. First of all we started off with an Alumni shoot where we covered the meet of all the successful alumni. Following this shoot we organised a fun event 'MURDER MYSTERY' which was mainly based for freshers to get friendly with seniors and college campus. We also conducted shoots of all the department with their respective HODs, to let all the students become familiar with their faculty and institute's base





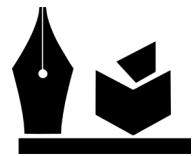
ART

CIRCLE





THE LITERARY COUNCIL



The Literary Council is a dynamic hub where ideas intertwine with language to create powerful expressions. It's where literature transcends mere words, thriving in both spoken and written forms. Our team, comprising skilled writers, speakers, and designers, nurtures a love for dialogue, oration, and creative writing. We offer students a platform to explore their identities and provide avenues for showcasing their literary talents.



Events

- **Think in a Blink:** In 2023, LC organized the "Think in a Blink" competition as part of Bhartiyan 2k23, promoting quick thinking skills. Participants showcased rapid cognitive abilities, fostering innovation and adaptability.
- **Jashn-e-Alfaaz:** In 2023, LC organized "Jashn-e-Alfaaz," a Hindi poetry competition, as part of Bhartiyan. The event celebrated the beauty and depth of Hindi and Urdu poetry, showcasing talent and creativity.
- **Unmukt:** Unmukt, an online Hindi-English Poetry Competition, was conducted in August, featuring various poets showcasing their creativity and linguistic prowess, delighting audiences with diverse expressions and emotions.

Achievements

- 1st in the Broadcast Journalism Competition in Mood Indigo 2023 by IIT Bombay.
- 1st in the Podcast Making Competition in Mood Indigo 2023 by IIT Bombay.
- 3rd in the Storytelling Competition in Mood Indigo 2023 by IIT Bombay.
- 1st place in the Essay Writing Competition in Avyanna by Symbiosis Women Medical College.
- 1st position in the debate competition in Agneyam by MIT-WPU, Pune.
- 3rd position in Dias Interjection Debate Competition by AIT, Pune.





RHAPSODY

We are the official dramatics society of our college, known as RHAPSODY. Our aim is to ignite the passion and showcase the immense talent of those who love the stage. Not only do we put on captivating performances, but we also raise awareness through impactful street plays. We even had the privilege of performing at prestigious national events hosted by institutions like IITs and NITs.



Achievements

- 1st position at FLUXUS 2023 by IIT Indore.
- 1st position at BVP New Law College Youth Fest.
- 1st position at MIT WPU's Aarohan.
- 1st position at Symbiosis Symbhav 2022.
- 1st position at IIT Bombay's Mood Indigo.
- 2nd position at IIT Kharagpur's SpringFest 2020.





RAQS



Raqs is like the heart-throb of dance at BV(DU)COEP, where we've got two incredible sub-teams that bring so much energy to the stage. One team dives into the beauty of classical dance, embracing traditions like Bharatanatyam, Kathak, and Odissi with grace and elegance. And then there's the western team, bringing the house down with their hip-hop, jazz, and all the cool moves you can imagine. Together, we are all about blending tradition with innovation, bringing people together through the magic of dance. It's where we find our rhythm and our joy, one step at a



Where dance transcends boundaries and expression knows no limits, Raqs is more than just a college dance team; we are a family united by our love for movement, creativity, and the sheer joy of dance. From contemporary to hip-hop, we embrace diverse styles and cultures, infusing each performance with our unique flair and passion. With every step, we strive to inspire, entertain, and spread positivity, creating unforgettable moments on and off the stage. We, as a team, dance together, dream together, and shine together.

Achievements:

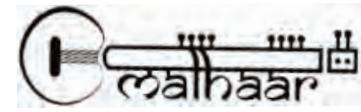
- Top 10 among 160 groups in Unmaad 2023
- 1st Prize in Duet in Symbhav 2023 by Symbiosis
- 1st Prize in Duet in Jam X
- 2nd Prize in Duet in Jam X
- 2nd Prize in Group in Hip-Hop by Ness Wadia
- 1st and 2nd Prizes in Duet in Symbhav by Symbiosis
- 3rd Prize in Duet by Vedant 2018
- 1st Prize in Group in 2022 by IMED





MALHAAR

Malhaar, Bharati Vidyapeeth (DU) College of Engineering Pune, was established eight years ago and has been creating a legacy ever since. Our talented crew has come out with flying colours in various renowned events such as Unmaad at IIM Bangalore and Mood Indigo at IIT Bombay. As a group of music enthusiasts, there is nothing more that motivates us than our achievements.



In Bhartiyan, the annual techno-cultural fest of our college, we put our best foot forward. Malhaar hosts a mesmerising jam event where we encourage vocalists (Sur Sangram) and instrumentalists (Symphony) to compete against each other. Malhaar's Ghazal Night is one of the most appreciated events by the audience.

Our main focus does not lie in winning or competing; Malhaar is about channelling our inner symphonies and creating melodious tunes together.

Simply put, Malhaar – a platform where passion meets the beat.

Achievements

- Youth fest 2k23 (BVP Kothrud Campus)
- 1st prize in western vocal solo
- 2nd prize in Group song Indian
- 3rd prize in Light Vocal Solo(Indian)
- MOOD INDIGO (IIT BOMBAY)
- 2nd prize in MI IDOL
- 2nd prize in MI'NEM
- 3rd prize in MI TUNES
- TROIKA (BMCC)
- 1st prize in Solo Singing





MALANG



Malang is a vibrant haven where creativity flourishes and artistic spirits find solace. As the official photography and art club of our esteemed college, Malang transcends beyond being a mere group; it is a sanctuary where canvases become comforting companions and every photograph communicates, embracing the kalakaars within each individual.

Established in 2016 by the visionary Pratyush Das, Malang swiftly garnered recognition through a year-round display of remarkable artistic endeavors. Notably, Malang has consistently led the Central Creativity Team of Bharatiyam, contributing to the meticulous planning of color schemes, decorations, stalls, and more.

Our commitment to artistic education is unwavering, as evidenced by the organization of diverse workshops covering quilling, digital art, 3D model creations, and mandala, enriching the skill set of our dedicated members.

Malang's journey is punctuated with notable achievements, including securing the 3rd position at the Spardha 2022 Painting Competition, the 6th position at the Art City Competition, the 2nd position in Cartoon Making at Youth Fest 2023, and contributing stunning work to the Art Circle banner and Bharatiyam festivities.

In this transformative tenure, Malang has embraced the digital landscape, birthing assets such as our website and application. We foster skill enhancement through meticulously curated workshops, ranging from the intricacies of mandala art to immersive photowalk experiences. From its humble beginnings, Malang has burgeoned into a collective of over 50 impassioned artists, all united by the resonant mantra, "For the kalakaar in you."

Embark with us on this exhilarating journey of artistic discovery, where each stroke tells a unique story, and inspiration gracefully pirouettes on the edge of every thought. Step into the enchanting world of Malang, where art and imagination seamlessly converge, and let us collaboratively craft a universe where creativity knows no bounds.





VAAQIF

Vaaqif - BVP's official rock band, blending traditional Indian music with modern rock, creating a captivating and unique musical experience.

As the official rock band of BVDUCE, we have on our team some of the college's best instrumentalists and vocalists. We perform in various college events as well as participate outside our college.

As our band name suggests, we are well aware of the fact that each member brings their unique style and skill to the group, creating a sound that is truly our own.

We are a group of talented musicians who share a passion for rock music and love to perform for our fellow students. Whether you're a fan of classic rock or modern rock, we have something for everyone!

We believe that music has the power to bring people together, and we strive to create a sense of community through our performances.





Your Home
Away From
Home
Boys' PG
Hostels.



ad banao

Brand Badhaa..



Yash Boys hostel



S. No.34/9/9 Yash building near Mohannagar last bus
stop Dhankhawadi, Pune



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