

YANTRAM

2022-23

Director's Message



Dr. V. J. Kadam

Director

Bharati Vidyapeeth's Educational Complex, Navi Mumbai.

From Director's Desk

I am pleased to know that the Department of Mechanical Engineering is publishing the eighth edition of its technology journal “YANTRAM” for the 2022-23 academic year. “YANTRAM” is best known for inventing the inner fire of future technologists and enlightening students' minds about it. I applaud you for your efforts and efforts behind the team to raise the issue. I wish them all the best.

Dr. V. J. Kadam

Principal's Message



Dr. Sandhya D. Jadhav

Principal

Bharati Vidyapeeth's Educational Complex, Navi Mumbai.

From Principal's Desk

It is indeed an exciting time for the Department of Mechanical Engineering as readers have successfully released the eighth edition of the technology magazine "YANTRAM" for 2022-23. The most important feature we can find in this amazing effort is that it highlights the various aspects of technology, analysis, literature and the art of emerging engineers. I wish them all the best for publishing more such magazines in future

Dr. S. D. Jadhav

HOD's Message



Dr. S. N. Teli

HOD

(Department of Mechanical engineering)

Bharati Vidyapeeth's Educational Complex, Navi Mumbai.

It is a great pleasure to know that our readers have successfully delivered the eighth edition of the Department's magazine "YANTRAM". The wide spectrum of content gives me a sense of pride in the fact that our readers have new energy and intelligent thinking. I am confident that this magazine will provide students with a platform to expand their technical knowledge and hone their hidden learning talent. The publication of this journal reminds us of the talent we have in our department and sends a message to newcomers about the expectations and responsibilities they will carry in the coming years. Thank you for the work done by the editorial team in presenting this article. I wish them all the best for their future endeavours and hope they bring more joy to the department.

FACULTY ADVISOR's Message



Prof. JAYDEEP PATIL

FACULTY ADVISOR

**(Mechanical Engineering Student Association)
Bharati Vidyapeeth's Educational Complex, Navi
Mumbai.**

It is my pleasure to address you today and share some thoughts on the importance of education in our lives. As a teacher, I have always believed that knowledge is the key to unlocking a world of opportunities, and I am constantly inspired by the passion and curiosity of my students. As we move forward in our academic journey, I want to take a moment to acknowledge the resilience and determination you have shown during these challenging times. The past year has been filled with unexpected obstacles, but you have adapted and persevered, and for that, we are immensely proud. I want to express my sincere appreciation for the opportunity to share my thoughts with you. Thank you for your time and attention, and I wish you all the best on your own educational journey.

PRESIDENT's Message



ADITYTARAJ PATIL
PRESIDENT
(Mechanical Engineering Student Association)
Bharati Vidyapeeth's Educational Complex, Navi
Mumbai.

As the President of our Mechanical Engineering Student Association, it is my pleasure to address the readers of our college magazine. Our committee is made up of dedicated and passionate individuals who are committed to making a positive impact on our campus and in our community. We work tirelessly to organize events, initiatives, and projects that align with our shared mission and values. Our goal is to create a culture of collaboration, inclusivity, and engagement, where every student has the opportunity to thrive and make a meaningful contribution. Through our collective efforts, we hope to inspire and empower others to take action and make a difference.

I would like to take a moment to express my gratitude and appreciation for all of the hard work and dedication that every have put into our committee. It is because of your commitment and passion that we have been able to achieve so much and make a positive impact in our community.

As we continue to work towards our shared mission, I am confident that we will achieve even greater things. I am honored to be a part of this committee, and I am grateful for the opportunity to work alongside such a talented and committed group of individuals.

Thank you for your continued dedication and for making our committee such a success. Thank you for your interest in our committee, and we hope you enjoy reading about our work in this magazine.

Editor's Desk

Welcome to the Editor's Desk of Yantram, the college magazine that showcases the creative talents of our students. I am pleased to introduce Darpan Gode as the Editor for this edition, alongside my co-editor Sakshi Bhawar. Our team has been working tirelessly to bring you the best of the college's creative talents. We have received an overwhelming response from our contributors this year, and we are excited to share their work with you. Our magazine is a platform for students to express themselves through various mediums, including poetry, stories, artwork, photography, tech events, and workshops. We have received an incredible array of submissions, and we are proud to present them to you in this edition.

In this edition, we have focused on topics that are close to the hearts of our readers. Our contributors have shared their experiences, thoughts, and emotions, and we hope that their work will resonate with you. As Editors, our primary goal is to showcase the talents of our peers while also providing them with a platform to express themselves. We believe that creativity is essential to personal and societal growth, and Yantram is the perfect place to nurture and showcase it. We hope that you enjoy reading this edition of Yantram as much as we enjoyed putting it together. Thank you for your continued support, and we look forward to your feedback.

EDITORIAL TEAM



Darpan Gode
TE-Mech



Sakshi Bhawar
TE-Mech

WHAT IS MECHANICAL ENGINEERING STUDENT ASSOCIATION ?

Welcome to the Mechanical Engineering Student Association (MESA) at Bharati Vidyapeeth college of Engineering. MESA is an organization created for and run by mechanical engineering students who share a common interest in the field. We are a group of dedicated and passionate students who strive to enhance the academic and professional experience of our fellow mechanical engineering students. Our committee is composed of individuals with various backgrounds and experiences, united by our common interest in mechanical engineering. Together, we work towards organizing events, workshops, and other activities that foster a sense of community among our members and prepare them for successful careers in the field of mechanical engineering. We work to provide our members with opportunities to enhance their academic and professional skills, as well as to develop their leadership and teamwork abilities. Our committee is composed of dedicated and passionate individuals who are committed to making a difference in the lives of our members. In this introduction, we will provide a brief overview of our committee members and their respective roles. The Mechanical Engineering Student Association (MESA) is a student-led organization that aims to create a community for mechanical engineering students at a university or college. MESA typically offers a variety of programs and activities that are designed to support the academic, professional, and personal development of its members.

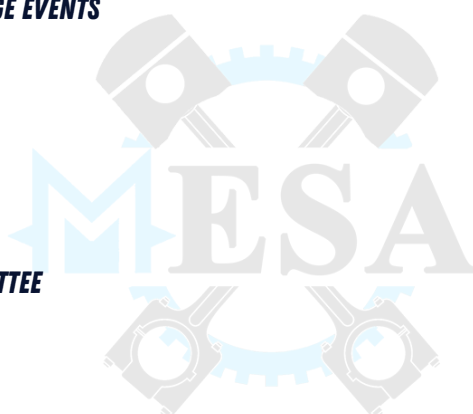
MESA may host events such as workshops, industry tours, guest speaker sessions, and networking events to provide members with opportunities to learn about the latest developments in the field and to connect with professionals in the industry. MESA may also organize student-led projects, competitions, and research initiatives to help members apply their skills and knowledge in real-world situations.

MESA is typically run by a committee of student volunteers who are elected by the members. The committee is responsible for organizing and overseeing the organization's activities and events, managing the budget, communicating with members, and ensuring that the organization operates effectively and efficiently.

Membership in MESA is typically open to all mechanical engineering students, regardless of their level of study. Joining MESA can be a great way to connect with peers who share similar interests and to gain valuable experiences and skills that can help prepare members for a successful career in mechanical engineering. We are excited to have such a passionate and driven committee working to provide exceptional experiences for our members. Our committee members bring a diverse range of skills and experiences, and we believe this will greatly benefit our organization and its members. We look forward to connecting with our fellow mechanical engineering students and collaborating to create a supportive and engaging community through MESA. If you have any questions or would like to learn more about MESA, please do not hesitate to reach out to us. Thank you for your interest in MESA, and we hope to see you soon

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EXPLORE THE WORLD OF MOBILITY : A GLIMPSE OF MESA'S AUTOEXPO 2023 AT BHARATI VIDYAPEETH COLLEGE OF ENGINEERING



The AutoExpo 2023, organized by MESA, was a grand showcase of the latest and greatest in the automotive industry. Held at Bharati Vidyapeeth College of Engineering in Navi Mumbai, the exhibition featured an impressive collection of cars and bikes that drew the attention of automobile enthusiasts from across the region.

The event was inaugurated by the Director of the college, Dr. V J Kadam, who emphasized the importance of such exhibitions in promoting innovation and encouraging students to pursue careers in the automotive industry. He praised MESA for their tireless efforts in organizing the event and bringing together manufacturers, students, and enthusiasts on a single platform.



This year's event was the eighth edition of the AutoExpo, and it was the biggest one yet. The exhibition featured over 150 bikes and 30 supercars and modified cars, which were carefully curated to represent the latest trends and innovations in the automotive industry. The main attraction of the event was the iconic Ford Mustang GT 5.0, which was a crowd favorite and drew massive attention from the visitors.

In addition to the impressive collection of cars and bikes, various stunts were performed by skilled riders in the open field to keep the visitors entertained. The stunts included wheelies, burnouts, and other daring maneuvers, all performed with utmost care and safety measures strictly enforced. The riders were experienced professionals who knew how to thrill the crowd while also taking care to ensure that no one got hurt.



Visitors were thrilled to witness the breathtaking stunts, which added to the overall excitement and energy of the event. The stunts were accompanied by pulsating music and enthusiastic commentary, which kept the crowd engaged and entertained throughout the event.

The AutoExpo 2023 was an excellent platform for manufacturers to showcase their latest products and technologies to a wider audience. Visitors had the opportunity to interact with industry experts and professionals, learn about the latest trends, and exchange ideas with like-minded individuals.



The event also featured several informative sessions and workshops on topics like engine tuning, automobile design, and vehicle safety. These sessions were well-attended and provided valuable insights to students and visitors alike.

The AutoExpo 2023 was sponsored by Monster Energy, IBS Institute, and CAD Center Kharghar, who played a crucial role in making the event a grand success. The sponsors provided several exciting giveaways and prizes, adding to the overall excitement and energy of the event.

In conclusion, the AutoExpo 2023 was a grand success, and it showcased the latest and greatest in the automotive industry. The event was an excellent platform for manufacturers, students, and enthusiasts to come together, exchange ideas, and explore the future of automotive technology. We look forward to the next edition of the AutoExpo, which promises to be even bigger and better.



MECHANICAL ENGINEERING DEPARTMENT AT OUR COLLEGE RECEIVES NBA ACCREDITATION: A MAJOR MILESTONE IN EDUCATION EXCELLENCE

It's not every day that a college department receives accreditation from the National Board of Accreditation (NBA), especially when it's a department of mechanical engineering. But that's exactly what happened at our college. The NBA recently recognized our department of mechanical engineering for its exceptional quality of education, state-of-the-art infrastructure, and commitment to producing skilled engineers who are ready to make a difference in the world. In this article, we'll explore the significance of this achievement and what it means for our college and its future.

The National Board of Accreditation, or NBA, is an independent body created by the Indian government to evaluate and accredit technical education programmes provided by engineering colleges and other Indian technical institutions. The standard for technical education in India is thought to be NBA accreditation. Our Mechanical Engineering department received NBA accreditation last year, in 2022. For on-site inspection a team of experienced faculties and industry experts were sent from NBA. This inspection was carried out for 2 days.

Interaction with the students began on the first day. Assessors randomly visit any classrooms and question the pupils on things like,

- 1)The mechanical department's mission and vision statement.
- 2)The course/subject outcomes.
- 3) What diverse teaching approaches or how well-equipped are the classrooms for teaching engineering concepts?
- 4)Some common inquiries concerning college life and other amenities like the library, canteen, etc.

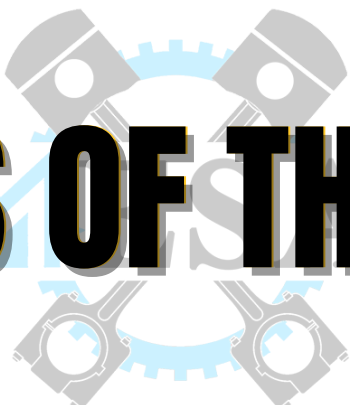
Nearly all of the questions that the assessors asked the students had satisfactory answers.

On day 2, all of the laboratories were evaluated in the morning. A few questions regarding the lab's equipment, vision, and missions were posed to the faculty and students present. Students were randomly quizzed by the assessors, who also evaluated the knowledge they were learning while participating in the relevant experiments.

Meetings with parents were held later that day in the afternoon. In which the assessors talked with the parents about the difficulties their children had while enrolled in college and what, in their opinion as parents, should be done to improve the college. Likewise, a separate gathering of alumni and students was held. We were questioned by the assessors about any improvements that the college should make, and they also asked the students for their opinions on the facilities as a whole. Together with many other topics, extracurricular activities were also covered in the questions.

In conclusion, receiving NBA accreditation is a significant milestone for our department of mechanical engineering and our college as a whole. It validates our commitment to providing quality education and producing skilled engineers who can tackle the challenges of the real world. We're proud of this achievement and are determined to continue on this path of excellence to prepare our students for a successful career in the field of mechanical engineering.

-Aniket Kadam



EVENTS OF THE YEAR



ENGINEERING MARVELS: CELEBRATING THE INGENUITY AND INNOVATION OF ENGINEERS ON ENGINEER'S DAY

Happy Engineer's Day to all the brilliant minds who strive to make the world a better place through innovation and problem-solving. As we celebrate the invaluable contributions of engineers in shaping our society and driving progress forward. As we gather here in college, we honor the hard work, dedication, and creativity of all the engineers who have paved the way for us and continue to inspire us to reach new heights. Whether you're studying mechanical, electrical, civil, software, or any other engineering discipline, your skills and expertise will play a critical role in shaping the future. So let us take a moment to recognize and celebrate the remarkable achievements of engineers and the endless possibilities they bring.

Engineer's Day Celebration.

As we celebrate Engineer's Day in our college, we take this opportunity to honor the engineering profession and the contributions of engineers to our society. Engineers have always been at the forefront of innovation, solving complex problems and creating technologies that have transformed the world we live in. Today, we recognize and appreciate the efforts of our fellow engineering students and faculty members, who are committed to making a positive impact on the world through their knowledge, skills, and creativity.





We are excited to celebrate Engineers Day with such a diverse and engaging lineup of activities. We hope that this event will inspire our students to continue pursuing their passion for engineering, and serve as a reminder of the impact that engineers have on our world. At the end of the event was concluded by thanking the audience for their participation and the performers for their contribution. The Mesa committee also invited the faculty to share their final thoughts on the event and Engineers Day.

On this Engineers Day, let us celebrate the incredible contributions of engineers to our world. Let us honor the hard work, dedication, and innovation that they bring to their fields every day. As we move forward into the future, we can be confident that engineers will continue to play a vital role in shaping our world and making it a better place for all. Happy Engineers Day

CELEBRATING THE PROBLEM SOLVERS AND INNOVATORS OF TOMORROW, TODAY.

Let us come together to celebrate the achievements of engineers and to inspire future generations to pursue this rewarding field. Engineers Day celebrated on 15th September 2022 by the MESA (Mechanical Engineering Student Association) committee in Seminar hall. We have planned a range of activities that showcase the talents and skills of our engineering students, as well as providing opportunities for learning and networking. The festivities will begin with an opening ceremony featuring traditional lighting of lamp by our HOD Sir and faculties.

Next, faculties from the mechanical engineering department delivered speeches highlighting the importance of Engineers Day and its significance for the engineering community.

To add some entertainment to the event, musical performances were organized. Two Solo dance performance by students and singing followed by a rap song. Along with those performances a skit was also performed.

In addition to the educational activities, we have also planned some fun events to promote team-building and community building. These include a hackathon, where students can work in teams to solve real-world engineering problems, as well as a talent show and a sports tournament. We are confident that these activities will help foster a sense of camaraderie and encourage collaboration among our engineering students.



EMPOWERING WOMEN IN ENGINEERING: A CELEBRATION OF INTERNATIONAL WOMEN'S DAY AT BHARATI VIDYAPEETH COLLEGE OF ENGINEERING



The Mechanical Engineering Department at Bharati Vidyapeeth College of Engineering organized a wonderful event to celebrate International Women's Day. The event was a great success and highlighted the important contributions that women have made to the field of engineering.

The event began with a felicitation ceremony for the women faculty members of the department, where they were honored for their hard work and dedication to the field of engineering. This was followed by cultural performances, including singing and dancing, which showcased the talents of the students. After the performances, students and faculty members gave speeches about the importance of gender equality and women's empowerment. They talked about the challenges women face in the field of engineering and the need to create a more inclusive and supportive environment for women in this male-dominated field.



The event also included a panel discussion on the theme of "Women in Engineering: Breaking Barriers and Achieving Success". The panelists, who were successful women engineers, shared their experiences and insights about the challenges they faced and the strategies they used to overcome them. They also encouraged students to pursue their dreams and to never give up in the face of obstacles.

The event was a great opportunity for students to learn from successful women engineers and to gain a better understanding of the issues women face in the field of engineering. It was also a great reminder that gender equality and women's empowerment are important issues that need to be addressed in all fields, including engineering.

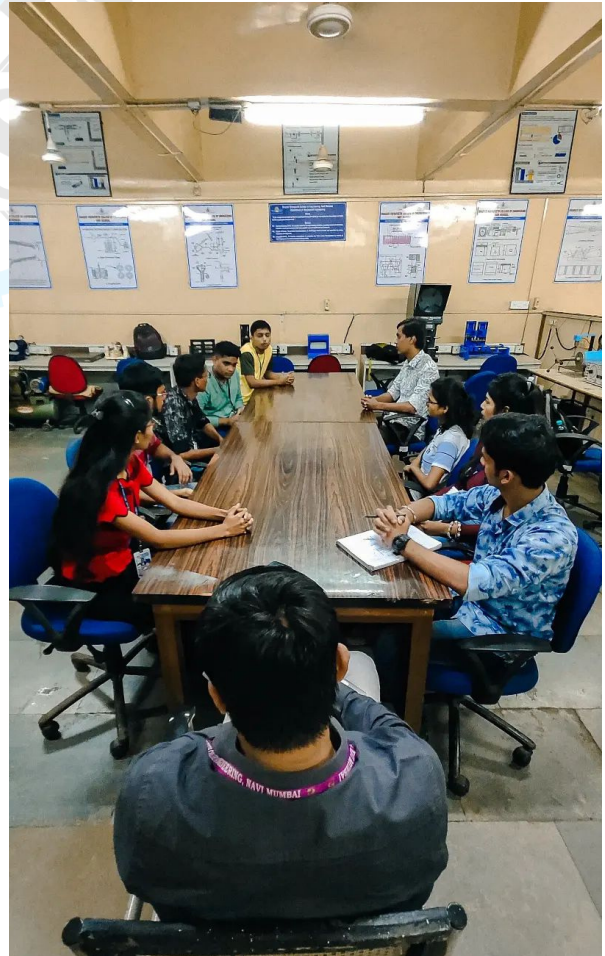
FROM CLASSROOM TO CAREER: THE IMPORTANCE OF MOCK PLACEMENT DRIVES FOR COLLEGE STUDENTS



MESA, the technical student association, successfully conducted a mock placement drive for TE and BE students in 2022. The aim of this activity was to prepare students for the actual placement drive by providing a practice session that simulates the real placement process. The mock placement drive was designed to build confidence, identify strengths and weaknesses, and enhance interview skills.

The event started with an online aptitude test where students had to answer questions related to their technical knowledge, logical reasoning, and general awareness. The students who scored above the cut-off marks were qualified for the next round, which was the group discussion round. In the group discussion round, students were divided into groups of 5-6, and they had to discuss a given topic. The teachers evaluated their communication skills, problem-solving ability, and team spirit, and selected the top 1-2 students from each group for the final round, which was the interview round.

In the interview round, the students were evaluated on their technical knowledge, communication skills, and personality traits. The teachers asked a range of questions related to the students' field of study, their work experience, and their future aspirations. The students who succeeded in the interview were awarded a certificate of achievement, recognizing their performance in the mock placement drive.





The mock placement drive had several benefits for the students. Firstly, it provided a safe and supportive environment for the students to practice their skills and build confidence. Facing a real placement drive can be a daunting task, and the mock placement drive helped the students overcome their fear of facing the actual drive. Moreover, the mock placement drive enhanced the interview skills of the students. It provided an opportunity for them to practice answering different types of interview questions, improve their communication and presentation skills, and receive feedback from experienced teachers. The activity enabled the students to communicate effectively with potential employers, increasing their chances of landing their dream jobs.

In conclusion, the mock placement drive conducted by MESA had several benefits for the students. It provided a safe and supportive environment for the students to practice their skills, gain insights into the placement process, identify their strengths and weaknesses, and enhance their interview skills. The activity helped the students gain confidence and improve their chances of success in the actual placement drive.



GAME ON: BHARATI VIDYAPEETH COLLEGE OF ENGINEERING'S ANNUAL SPORTS EVENT BRINGS TOGETHER STUDENTS AND STAFF FOR A DAY OF FUN AND COMPETITION



Bharati Vidyapeeth College of Engineering recently held its annual sports event, bringing together students from various departments to compete in a range of athletic activities. The event was a celebration of unity, friendship, and the importance of physical activity in maintaining a healthy lifestyle. The sports event kicked off with an opening ceremony featuring a parade of athletes, followed by the lighting of the torch to mark the official start of the games. Students from different departments, dressed in their respective colors, marched proudly around the field, displaying their team spirit and enthusiasm for the day's events.

The sports events included various track and field events, such as sprints, relays, long jumps, and high jumps, as well as team sports like cricket, football, and volleyball. The games were fiercely contested, with each team putting in their best effort to come out on top. Throughout the day, the atmosphere was electric, with students cheering on their teammates and supporting their rivals. The sense of camaraderie was palpable, as students from different departments came together to celebrate the spirit of sportsmanship and competition.

Apart from the sports events, the day also featured cultural performances, including dance and music performances, adding to the festive atmosphere of the day. Food stalls were set up, providing students with a variety of snacks and refreshments to keep their energy levels up throughout the day.

The sports event was a resounding success, with students and staff alike enjoying the festivities and the opportunity to showcase their athletic abilities. More importantly, the event served as a reminder of the importance of physical activity in maintaining a healthy lifestyle and building strong bonds of friendship and community.

In conclusion, Bharati Vidyapeeth College of Engineering's annual sports event was a celebration of unity, athleticism, and community spirit. It brought together students from different departments, allowing them to showcase their sporting abilities while also fostering a sense of camaraderie and friendship.



EXPLORING MBA: A CAMPUS VISIT TO ICFAI BUSINESS SCHOOL



The Mechanical Engineering Students Association (MESA) recently organized a Campus Visit at ICFAI Business School (IBS), Powai, on 25th January 2023, which turned out to be a highly informative and enriching experience for the 110 participating students.

Upon reaching the institute at 11:15 am, the students got themselves registered and were warmly welcomed by the staff members of IBS. They were then asked to assemble in a seminar hall where the workshop was scheduled to begin. The speaker, Silpy mam, who is a Subject Matter Expert (SME), took over the seminar and gave the students a brief knowledge about the MBA course. The significance of internships and pre-placement offers in the MBA program was explained, along with why soft skills (behavioral) are more important than hard skills (technical).

The workshop also included a detailed discussion on leadership qualities that a leader should possess, and the qualities that every member should have while working in a team. The students were shown a motivational speech video of Harsha Bhogale talking about talent and attitude. Furthermore, they were given information about all entrance exams for pursuing an MBA course, and a statistical data was presented, showing that the number of engineering students appearing for MBA entrance exams was higher compared to other students.





To enhance experience, the institute also organized a campus tour for the students, which was followed by a delicious lunch at the cafeteria. Overall, the Campus Visit organized by MESA proved to be a highly informative and enlightening experience for the participating students, offering them valuable insights into the MBA program and its various aspects.

To enhance the experience, the institute also organized a campus tour for the students, which was followed by a delicious lunch at the cafeteria. Overall, the Campus Visit organized by MESA proved to be a highly informative and enlightening experience for the participating students, offering them valuable insights into the MBA program and its various aspects.

Overall, the campus visit to IBS Business School was a highly informative and enriching experience for the students. It provided them with valuable insights into the MBA program and its various aspects, and they got a chance to interact with experts in the field. The visit also gave them a glimpse of the institute's facilities and infrastructure, which left a lasting impression on them.



MESA ORGANIZES SUCCESSFUL PRE-PLACEMENT SEMINAR ON RECESSION AND CAREER PREPARATION



The Mechanical Engineering Students Association (MESA) successfully hosted a Pre-Placement Seminar at Bharati Vidyapeeth College of Engineering, Navi Mumbai, on the 22nd of February 2023. The event was well-attended, with 135 students present to benefit from the informative session. The seminar commenced with Rutuja Dhoiphode, Co-Founder, and CEO of TCR Innovations, taking the stage. Rutuja delivered an enlightening talk, providing the attendees with essential knowledge about Pre-Placement Activities and Recession. The significance of these factors in the job market was thoroughly explained, equipping the students with crucial insights on how to prepare themselves for their future careers. Rutuja also shared her insights on how the recession impacts different businesses, providing the students with a rough idea of how it affects specific sectors. She went on to give a roadmap on how to approach companies while applying for positions, providing the students with useful tips and tricks.

Additionally, Rutuja guided the students on how to pursue masters abroad, giving them valuable information on how to plan their future studies. This guidance was particularly useful for students considering further studies in foreign countries.

The Pre-Placement Seminar was a resounding success, providing the students with a glimpse into the realities of the job market and how to achieve their dream positions in MNCs. The seminar not only gave students knowledge about pre-placement and recession but also empowered them with the necessary skills and information required for future career success.

MESA expresses their gratitude to TCR Innovations and Rutuja Dhoiphode for their valuable time and cooperation in organizing this informative event. The students deserve commendation for their disciplined and supportive approach during the seminar. Overall, the Pre-Placement Seminar was a great success, empowering the students to prepare themselves for the job market and achieve their future career goals.

EMPOWERING AND UPSKILLING IN HVAC: ISHRAE'S INITIATIVES AND COLLEGE EVENTS



The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) has been making significant contributions to the HVACR industry through various initiatives. Recently, the organization participated in the National Skill Development Corporation to empower and employ individuals in this field. Through interactive sessions, job fairs, and skill mapping activities, ISHRAE aimed to spread awareness and achieve its goals.

As part of a competition, our team designed an HVAC system for a mall while considering several factors such as room size, air flow rate, space type, desired temperature range, budget, operating type, insulation level, climate conditions, refrigerant type, energy efficiency, air quality control, maintenance requirements, safety features, compliance with building codes, and acoustical requirements. Such exercises help students learn about the importance of these parameters in HVAC design and gain practical experience.

To further promote skilling and upskilling in HVAC, Saraswati College, Kharghar organized Jambori, an intensive one-day program. The event witnessed enthusiastic participation from students, faculty members, and industry professionals. Panel discussions, seminars, workshops, competitions, industrial visits, and field trips were some of the activities conducted. Such events are excellent platforms for knowledge sharing, networking, and gaining exposure to the latest industry trends. Our team also volunteered at ACREX, Southeast Asia's biggest HVAC exhibition. ACREX is a remarkable event that brings together key players and professionals in the HVAC and Refrigeration sector from across the globe. The event includes interactive sessions, seminars, product launches, technology demonstrations, and many other activities aimed at increasing awareness and providing knowledge about the latest advancements in the industry.

As volunteers, we got a chance to learn from industry leaders and gain exposure to cutting-edge technology and products..

Overall, ISHRAE's initiatives, competitions, and events are contributing significantly to the development of the HVACR industry in India. Students who participate in such programs gain practical knowledge and exposure to real-world scenarios, which can be beneficial in their future careers. These events also provide an opportunity for networking and learning from industry experts, making them valuable experiences for all participants.





TECHNICAL CLUBS



TRIUMPHANT RACERS



ENRAPTH IN **MOTORSPORTS!**

Triumphant Racers is the Formula SAE team from Bharati Vidyapeeth College of Engineering, Navi Mumbai. Established in 2011, the team has been competing in international-level competitions for the past 11 years. With nearly 600 schools worldwide participating in Formula SAE, the competition is fierce and challenging, and it demands a high level of expertise and dedication from its participants.

In the world of engineering, there are numerous opportunities for students to showcase their knowledge and skills in a competitive environment. One such platform is Formula SAE, a global collegiate motorsport competition organized by the Society of Automotive Engineers. Teams of university students from all over the world design, build, and race small formula-style race cars, which are judged based on a range of factors such as design, safety, cost, and performance.

What sets Triumphant Racers apart from other teams is its holistic approach to car design. The team is judged not only on its car's performance but also on its overall quality of execution, including design, ergonomics, safety, and professionalism. This approach ensures that the team's cars are not only fast and powerful but also safe and efficient.

The team has always been open to adapting to new technologies and trends in the automotive industry. In recent years, there has been a heightened interest in fully electric vehicles, and Triumphant Racers has embraced this trend by setting its course to compete in the Electric Vehicle category for the upcoming year. This move demonstrates the team's commitment to staying ahead of the curve and exploring new opportunities in the field of automotive engineering.





Triumphant Racers is composed of 33 full-time university students ranging from 1st-year freshman to 4th-year senior members. The team's members participate in the entire project, from design to competition, translating concepts from coursework to real-life applications, and meeting strict design regulations and manufacturing deadlines. As the project moves from concept to design, from part manufacturing to assembly, and from testing to racing, members learn the technical, teamwork, and project

management skills required to transition seamlessly into careers in industry. In conclusion, Triumphant Racers is a shining example of the talent, dedication, and innovation that can be found in the student community at Bharati Vidyapeeth College of Engineering. With its commitment to holistic design, adaptability, and experiential learning, the team is well-positioned to continue its success in Formula SAE and beyond. We wish them the best of luck in their future endeavors.



A LOOK BACK AT THE TRIUMPHANT RAGERS TEAM'S CLASSIC CARS



QUASSR 2012

*QUASSR, AFTER IT'S DEBUT IN WAS ONE OF THE TOP 2 TEAMS TO REPRESENT INDIA AT **FORMULA STUDENT GERMANY 2012** THE DESIGN WAS APPRECIATED BY VARIOUS FOREIGN TEAMS AND JUDGES, WHICH PROVED TO BE OF GREAT MOTIVATION FOR QUASSR 2.0*

***FIERCE** WAS OUR CITY'S FRIRST **ALL TERRAIN** VEHICLE IN THE BAJA SEGMENT DESIGNED AND BUILT BY TRIUMPHANT RAGERS. IT WAS A PART OF **BAJA SAE** IN THE YEAR 2012*



FIERCE 2012



QUASSR 2.0 2012

*WITH INCREASE IN TEAM MEMBERS AND OVERWHELMING SUPPORT OF OUR SPONSORS, QUASSR 2.0 IMPRESSED A LOT OF FACES IN **SUPERA SAE INDIA, 2012***



TVASKA 2013

TVASKA 2.0 WITH A CLEAN DESIGN AND WITH GOOD RELIABILITY PARTICIPATED IN SUPRA SAE INDIA, 2014 AND SECURED AN OVERALL ALL INDIA 18 IN FORMULA STUDENT INDIA, 2015

A TEAM WITH EXPERIENCE WAS FORMED, THUS TVAKSA WAS ALL READY TO TAKE IT'S SECOND STEP IN FORMULA STUDENT GERMANY, 2013. WITH IMPROVEMENT IN SKILLS, THE ADVANCEMENTS IN TVAKSA PROVIDED A FIRM FOUNDATION FOR THE FUTURE TEAM



TVASKA 2.0 2014



ARIES 2013

ARISE 2013 WAS ONE OF INDIA'S FIRST MOST COST EFFECTIVE ATV CAR DESIGNED AND BUILT BINDING TO SAE BAJA KOREA RULES. IT WAS POWERED BY 125 CC ENGINE



NO SHADY 2019

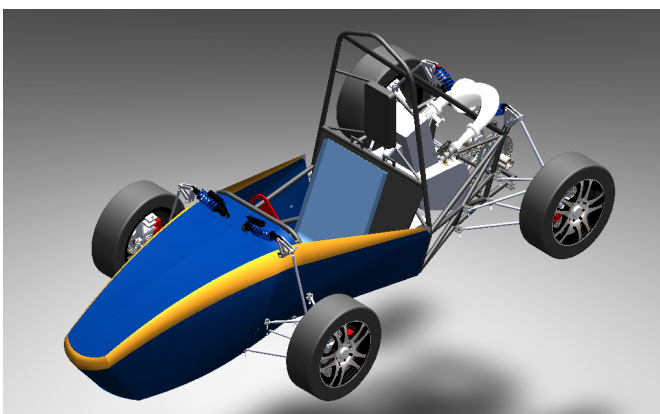
NO SHADY WAS TEAM'S ALL TERRAIN VEHICLE DESIGNED BY GROUP OF STUDENTS TO PARTICIPATE IN RALLY CAR DESIGN CHALLENGE 2019

THE ARISE 2014 WAS THE CAR BUILT BY THE TRIUMPHANT RACERS BAJA TEAM IN THE YEAR 2014. THE CAR WAS POWERED BY A 240 CC PETROL ENGINE. THE TEAM PARTICIPATED IN THE DELTA SHOOTOUT 2014 EVENT HELD AT NIT JAMSHEDPUR



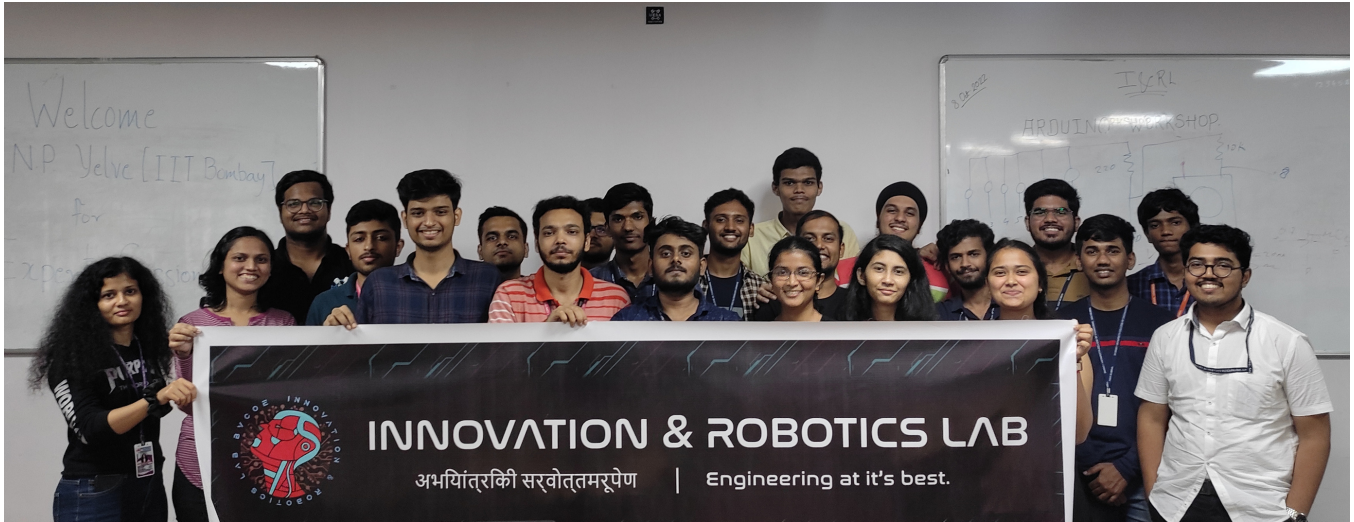
ARIES 2014

TRIUMPHANT RACERS HAD AN INGRATIATING YEAR WITH ABHYUDAY ORIGINALLY BUILT FOR THE SUPRA SAE 2020 COMPETITION WHICH GOT CANCELLED DUE TO COVID PENDING, IT'S DESIGN HELPED US SECURE ALL INDIA RANK OF 20TH IN FORMULA BHARAT VIRTUALS 2021 COMPETITION.



ABHYUDAY 2021

INNOVATION & ROBOTICS LAB



The Innovation and Robotics Lab at our college has been making remarkable progress since its establishment in 2021 by Rohan Wadkar. With its numerous achievements and contributions to the field of robotics, it has become a hub of creativity and innovation for students.

The club's achievements are nothing short of impressive. Members of the Innovation and Robotics Club have participated in various national competitions and have secured top positions. In the Pragyan's Simdroid Design Challenge organized by NIT Trichy, the club's teams secured first and second runner-up positions. The teams were instructed to design a remotely operated vehicle that can sustain intense pressures at depths of 5000m and perform cleaning operations at the seabed. This competition showcased the club's expertise in robotics and its commitment to solving real-world problems.

Similarly, members of the club participated in the Smart India Hackathon 2022 Hardware edition and emerged victorious at the end after competing at the national level. In the Robonav Software edition organized by IIT Madras, the club's team secured second place in the competition. They also participated in the Amity University Technical Fest, where they emerged as the winners in both FPV Drone Racing and Nitro RC Racing competition 2022 at the national level.





Moreover, the club's members participated in the e-Yantra's Agribot competition organized by IIT Bombay and programmed their way to the 10th position. This competition lasted for five months and comprised of five tasks. One of the club's members was able to secure an internship through this competition, which highlights the opportunities that the club offers to its members. The Innovation and Robotics Club's success in these competitions is a testament to the skills and knowledge of its members. They have demonstrated their ability to solve complex problems using their technical skills, creativity, and teamwork.

The club provides an excellent platform for students to showcase their talent, collaborate with their peers, and enhance their skills in robotics. In conclusion, the Innovation and Robotics Lab at our college has made tremendous progress since its establishment in 2021. The club's achievements in various national competitions have showcased its commitment to innovation, creativity, and problem-solving. It has become a hub of excellence and innovation for students interested in robotics and is an excellent opportunity for them to showcase their talent and enhance their skills.



PLACEMENTS & TRAINING COMMITTEE



In today's competitive world, the primary objective of students is not just to acquire knowledge, but also to secure a good job. In order to make this happen, educational institutions play a vital role in providing the necessary guidance and support to the students. Bharati Vidyapeeth College of Engineering has always been at the forefront in shaping the career of its students. The college has a well-structured Student Placements & Training Committee that is responsible for ensuring that the students get placed in reputed companies.

The Placement Committee of the college comprises of dedicated individuals who work tirelessly to provide job opportunities for the students. They collaborate with various companies, conduct job fairs and placement drives, and also provide necessary training to the students. This committee plays a significant role in bridging the gap between academics and the industry by identifying the requirements of the companies and preparing the students accordingly.

FACULTY CO-ORDINATORS



Prof. Kuldeep S. Pawar
Assistant Professor



Dr. Ajay S. Bhongade
Professor



Dr. Manoj D. Nikam
Assistant Professor

Dr. Manoj D. Nikam and Prof. Kuldeep S. Pawar are the faculty coordinators of the Placement and Training cell of the college. They work closely with the students to identify their strengths and weaknesses and provide necessary training to improve their skills. The committee takes regular feedback from the students to improve their training process and provide them with a better placement experience.

The Placement Committee of the college does not just focus on the placement of the students, but also on their overall development. They conduct webinars, workshops, and mock placement drives to help the students understand the placement procedure and prepare accordingly. The committee also provides career counseling to the students and helps them choose the right career path.

In conclusion, the Student Placements & Training Committee of Bharati Vidyapeeth College of Engineering is an essential part of the college that works tirelessly to provide the best job opportunities for the students. The committee's efforts have helped the students secure placements in reputed companies and kick-start their careers. The college is proud of its Placement Committee and appreciates their contribution to the success of the students.



TE- MECH CO-ORDINATORS

PLACEMENTS 2023 BATCH

 HARSH MHATRE GODREJ & BOYCE	 SUYASH GHARAT GODREJ & BOYCE	 SIDDHESH ANDHALE GODREJ & BOYCE	 AJINKYA PATIL GODREJ & BOYCE	 SANGRAM NIMBALKAR GODREJ & BOYCE	 SANKET PATIL GODREJ & BOYCE	 ANUP MAURYA GODREJ & BOYCE	 ABHAY SASE GODREJ & BOYCE
 SUMIT MAJI GODREJ & BOYCE	 AYUSH JANKAR GODREJ & BOYCE	 RISHABH BARNWAL GODREJ & BOYCE	 PRATHMESH KAKADE GODREJ & BOYCE	 MOIZ HASSAN GODREJ & BOYCE	 SWARAJ MAHADIK GODREJ & BOYCE	 SHREYASH SHEDGE GODREJ & BOYCE	 ANRUDHNA DABHADE GODREJ & BOYCE
 NETRA SATPUTE GODREJ & BOYCE	 UJWAL JADHAV ASHOK LEYLAND LTD	 DHANSHREE PANDHARE WORLEY INDIA (P) LTD	 PRATIKSHA PAWAR WORLEY INDIA (P) LTD	 KOMAL SUTAR WORLEY INDIA (P) LTD	 RUTUJA BHEKE WORLEY INDIA (P) LTD	 PARTH NAIK TECHNIP	 ROHIT YADAV TECHNIP
 RUTUJA GHERADE HAWA VALVES INDIA (P) LTD	 PRACHI JAGE HAWA VALVES INDIA (P) LTD	 PRASAD PAWAR GREEN WORLD RENEWABLE ENERGY	 AMANULLA PATEL GREEN WORLD RENEWABLE ENERGY	 SAIRAJ DESHMUKH TCS	 SANDESH PATIL BYJU'S	 ARBAZ SAYYAD RELIANCE RETAIL	 ADITYARAJ PATIL SEQUELSTRING
 RIYA TIKOLE SEQUELSTRING	 HARSH DALVI SHREE SONS ENTERPRISES	 RUSHIKESH TUNGAR PRAJ INDUSTRIES	 DURGESH DASPUTE PRAJ INDUSTRIES	 RUTIK NIKAM PANASONIC	 OMKAR JADHAV SHREE SONS ENTERPRISES	 RUTIK NIKAM SHREE SONS ENTERPRISES	 ARSHIYA AMDULAY GODREJ&BOYCE

INTERNSHIP COMMITTEE



Bharati Vidyapeeth College of Engineering has a highly dedicated and competent internship committee that strives to provide students with the best possible internship opportunities. Led by the faculty coordinator, Prof. Dilip B. Radkar, the committee consists of experienced faculty members, administrators, and industry professionals who work tirelessly to ensure that the internship program at the college meets the academic standards of the institution and provides students with valuable learning experiences.

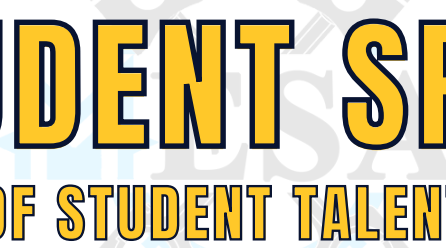
The internship committee at Bharati Vidyapeeth College of Engineering is responsible for selecting and approving internship opportunities for students. They ensure that the internships align with the academic and career goals of the students, and that they are relevant and meaningful. The committee maintains strong relationships with local and national employers, continuously seeking out new internship opportunities for students. They also identify emerging industries and trends, ensuring that students have the opportunity to gain experience in cutting-edge fields.

The committee provides ongoing support and guidance to students throughout their internships, ensuring that they have access to resources and assistance as needed. They help students navigate the challenges that come with internships and provide them with mentorship and advice. The committee also evaluates the effectiveness of the internship program regularly and makes recommendations for improvement.

This ensures that the program continues to meet the needs of students and the college, and that it remains relevant and effective.

The internship committee at Bharati Vidyapeeth College of Engineering is committed to providing students with the best possible internship experiences. They understand that internships are a crucial part of a student's academic and professional development, and they take their responsibilities seriously. By working together and prioritizing the needs of students, the committee ensures that students have a meaningful and relevant experience that prepares them for success in their future careers.

In conclusion, the internship committee at Bharati Vidyapeeth College of Engineering is an essential part of the institution's academic and professional success. Their dedication, hard work, and commitment to providing students with the best possible internship opportunities are crucial to the overall success of the program. By providing students with relevant and meaningful internships, ongoing support and guidance, and continuous evaluation and improvement, the committee ensures that students have a meaningful and relevant experience that prepares them for success in their future careers. The internship committee is an excellent example of how a great internship committee can make a positive impact on the lives and careers of the students they serve.



THE STUDENT SPOTLIGHT

A SHOWCASE OF STUDENT TALENT AND CREATIVITY

WHAT IT'S LIKE TO BE AN ENGINEER?

Engineering is not just a major, it's a mindset that prepares you for the challenges of the real world.

As an engineering student, life can be both challenging and rewarding. From endless problem sets to design projects, the daily routine of an engineering student can be hectic, but it is also full of learning opportunities and personal growth. One of the most significant aspects of being an engineering student is the constant stream of work. From classes to assignments and projects, there is never a dull moment. While the workload can be overwhelming at times, it is also what makes the experience unique. The endless hours spent poring over textbooks, working on problem sets, and designing projects are what truly prepare students for the demands of the engineering profession. Engineering students are also constantly learning. The field of engineering is constantly evolving, and students must stay on top of the latest technologies and techniques. This requires a high level of dedication and a willingness to learn new things.

Collaboration is also an essential aspect of being an engineering student. Projects and assignments often require working with a team of classmates. This provides an opportunity to learn from each other's strengths and weaknesses, and to develop valuable communication and collaboration skills. In addition to the academic aspect of being an engineering student, there are also numerous extracurricular activities available. Many engineering programs offer clubs and organizations that allow students to apply what they have learned in a hands-on setting. For example, robotics clubs, Formula SAE teams, and other engineering-focused organizations give students the opportunity to apply their skills in a practical and engaging way.

Despite the challenges, being an engineering student is incredibly rewarding. The skills and knowledge gained through the coursework and experiences are invaluable in the professional world. Additionally, the sense of camaraderie and community among engineering students is something that lasts long after graduation.

The field of engineering is vast and diverse, and there are numerous opportunities for students to specialize in areas such as mechanical, electrical, civil, or computer engineering. Whether you're interested in building bridges, designing electrical systems, or developing software applications, there is a place for you in the world of engineering.

In conclusion, being an engineering student is not for the faint of heart. It requires dedication, hard work, and a willingness to learn. However, the rewards are well worth the effort. The skills and knowledge gained, along with the sense of community and camaraderie among engineering students, make the experience one that will last a lifetime. So, if you have a passion for problem-solving, innovation, and creativity, engineering may be the perfect fit for you. Remember, Engineering is not just a major, it's a mindset that prepares you for the challenges of the real world.

ENGINEERING COMES WITH THE COST OF YOUR SOUL!

~Darpan Gode

THROUGH THE LENS: EXPLORING THE ART AND TECHNIQUE OF PHOTOGRAPHY



Darpan Gode
TE-MECH



Pratiksha Pawar
BE-MECH



Yash Mangaonkar
FE-MECH

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- PHOTOS BY SOHAM KHAWLE
SE MECH

FROM PENCIL TO PAINT: A VISUAL EXPLORATION OF SKETCHING AND PAINTING



Aasawari Waghmare
TE-MECH



MUKUND UKIRDE
SE-MECH

VERSE VIBRATIONS: A CELEBRATION OF WORDS

"स्त्री"

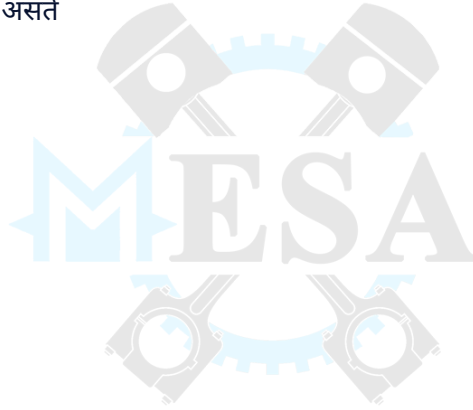
स्त्री

जगताचे निर्माण जिच्या पोटी
साऱ्या विश्वाची ती जननी असते,
पवित्र सुंदर रूप शक्तीचे
ती एक स्त्री असते,
समाजाच्या उद्धारासाठी
कधी जिजाई तर कधी सावित्री होते,
असामान्य कर्तृत्व स्त्रीचे
ती कधीच सामान्य नसते...

कधी असते बहीण तर कधी ती आई असते
कधी असते बायको तर कधी प्रिय मैत्रीण असते,
पदोपदी नाती तिची ती चोखपणाने निभावत असते
घरामधलं घरपण ती आनंदाने जपत असते,
असामान्य जगणे तिचे
ती कधीच सामान्य नसते...

कुटुंबासाठी झटता झटता
स्वतःला मात्र ती विसरते,
सर्वांच्या इच्छा पूर्ण करताना
मात्र स्वतःच्याच इच्छांना कचरते,
उगाच नाहीत म्हणत स्त्रीला
ती त्यागाच प्रतीक असते,
अहो कर्तृत्वच असामान्य तीचे
ती कधीच सामान्य नसते...

अलौकिक क्षमता असून देखील
का समाजात ती डावलली जाते,
समान असले मुलगा मुलगी तरीही
मुलगीच दुबळी का समजली जाते,
मिटवून टाकावी ही दरी
आणि घेऊ द्यावी तिला उंच भरारी,
हीच तर खरी माणूसपणाची ओळख असते
उंच यशाचे शिखर गाठुनी
ती पुन्हा दाखवेन जगाला
स्त्री कधीच सामान्य नसते...
स्त्री कधीच सामान्य नसते...



~SHIVAM PORJE

“एक सफ़र”

“एक सफ़र”

(दोस्ती से अनजान बनने तक का)

की मुलाकात तो पूर्ण ही हमसे तुम्हारी
पर ककसे पता था ज दिगी बदल देगी ये हमारी
दोस्ती तक तो ठीक ही था अब बात मोहब्बत पर आ ई,
वरना पता तो हमें भी था ये ख्वाकहश अधूरी ही रहेगी हमारी

.....

प्यार तो हमारा भी सच्चा था,
पर उसका धागा ही शायद कच्चा था
उसने बोल कर भी नहीं कनभाया था
और हमने कु छ न के ह कर भी बहुत खूब कनभाया था

.....

माना गलती हमारी ही थी
कु छ ज म्मेदाररयां ो कनभानी थी
मेरी भी तो कोई ख्वाकहशें थी
पर उसने उन्हें इनने की कोशशश तक न की थी

.....

चलो अच्छा ही ककया उसने मुझे गलत समझ कर
वरना तो कोई नहीं ता अधूरी ख्वाकहशें छोड़ कर
म बूररयां बेशक उसकी भी रहीं होंगी
वरना वोभी छोड़ने वालोमेसे नहीं था

.....

अब कभी वो ममला मुझे राह में

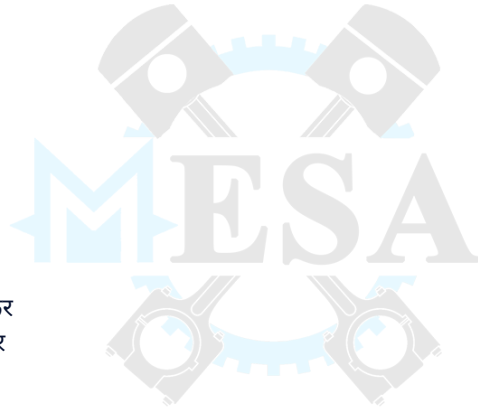
तो हस देती हां

उसे खुश देखकर तो यूहीं खुश हो ती हां
पा तो नहीं शलया उसे कभी मेने पर
आ भी उसे खोने से डरती हां

.....

आखखर में...

अन इन मुसाकिर ददल में आते ते है,
कु छ ददल के बेहद खास बन ते है
कु छ दुश्मन बन ते है
कु छ सब कु छ होकर भी यू बेनाम होही ते है



~SAKSHI TAMBE

"कल हो ना हो.."

कल हो ना हो..

हर सबु ह एक नया सवेरा नया उजाला लाती है..
कोई अपना खो देता, तो एक मांसतं इन पति है..
इंसानि यत का धर्म है, क्यों दि वारेजाति है...?
प्यार और स्नेह सेरहो, अतं मेंसब तो माति है...
दोस्त यार तरेरि श्तेउनको दि ल सेजोड़ दो...
शायद कल हो ना हो..

आज का दि न जी लो पहले..कल की क्या खबर..
आज तो लेता हैघर पे..शायद होगा कल कबर..
अमत् वाणी रखो मन में..क्युउगलतेजहर..
अपना गम कि तना कम हैजरा दनुिनिया पर डाल नजर..
सबको मि लेगी कामयाबी राखो जरा सबर...
जो बातेंकल बोलनी हैउनको आज बोल दो..
शायद कल हो ना हो..

कर दो जि कर कुछ बातोका, हालातोंका, जजबातोंका...
आज के दि न तो साथ हैसाथ तरेहाथो का..
कल शायद हम नहीं रहेगमु शदु इन अपनोमे
सि फ दि खाई देंगेनीद मंगहरे.. सपनो में..
जि दं गी बदल जाती हैकि ताबों का पन्ना पलकोमे...
मन के सारेराज परेशानि यांदोस्तो सेखोलदो
शायद कल हो ना हो..

जो मि ला उसकी खशुी मनाओ..जो नहींउसका गम नहीं...
वक्त वक्त की बात हैऔर वक्त सेबड़ा मरहम नहीं..
लोगों की इस भि ड में..गमु हो जाए कही...
जहांभी रहेखशु रहेक्या तकलीफ सब सही...
आज का दि न खलु के जि यो कल की अब फि कर नहीं...
अगर हो रुकावट तो जि दं गी को नया मोड़ दो..
क्या पता शायद कल हो ना हो..

कुछ ख्वाब अधरू...कुछ हुए मकुंमल..
कुछ हैपरेशानि यां चलो धधुंउनका हल...
कोई रहेगा पीछे..कोई हो गए सफल..
हंसी के पीछेमत करो द्वेष की नकल...
क्योंकि हम सब नहींजानत.े..क्या होगा कल...
हर पल यहांजी भर जि ओ...
जो हैसमा कल हो ना हो ..

Live Every Movement Coz we don't know when it's end.

~PRATIK THORAT

FACULTIES

DEPARTMENT OF MECHANICAL ENGINEERING



BATCH OF 2023



MESA



CONTRIBUTORS AND ACKNOWLEDGMENTS



Darpan Gode (TE-MECH)
Sakshi Bhawar (TE-MECH)
Soham Khawle (SE-MECH)
Juilee Patil (BE-MECH)
Ruchi Wankhede (TE-MECH)
Aasavari Waghmare (TE-MECH)
Aniket Kadam (TE-MECH)
Vedant Bhirud (TE-MECH)