

NEWSLETTER

SUMMER

2024



ZEAL
INSTITUTES

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NARHE | PUNE | INDIA



ZEAL POLYTECHNIC, PUNE

Volume No. 8 / Issues 2 /
2023-24



**DEPARTMENT OF
MECHANICAL ENGINEERING**



ABOUT INSTITUTE ZEAL POLYTECHNIC, NARHE, PUNE

Zeal Education Society (ZES), established in 1996, is driven by the vision to provide education with a difference, under the expert leadership of Hon. Shri. S.M. Katkar, a renowned industrialist. ZES currently operates eight institutes, offering a wide range of educational programs from pre-primary to Ph.D. levels.

Zeal Polytechnic, founded in 2008, is one of the prominent institutions under ZES. It offers diploma courses in various engineering disciplines, including Mechanical Engineering, Civil Engineering, Computer Engineering, Electronics and Telecommunication Engineering, and Electrical Engineering. The institute is dedicated to providing students with state-of-the-art infrastructure, well-equipped laboratories, and a robust faculty team. This commitment to excellence has led to remarkable academic performance over the years.

In recognition of his exceptional contributions to education, the founder director of Zeal Polytechnic was recently honored with the 'Icon of Education' award by the Lokmat media group. The award was presented in the presence of Hon. Smt. Smriti Irani, the former HRD Minister of India, and Hon. Shri. Vinod Tawde, the former Technical Education Minister of Maharashtra.

PRINCIPAL'S MESSAGE

Prof. Ayub A. Tamboli

I am delighted to note that the Department of Mechanical Engineering at Zeal Polytechnic is releasing its newsletter, showcasing the various activities and achievements of its faculty and students. It brings me immense pride to acknowledge the outstanding academic accomplishments of our diploma mechanical engineering students. Your unwavering commitment to excellence and your relentless pursuit of knowledge are truly commendable. The journey you have embarked upon is a testament to your dedication and hard work, and it reflects the value of a polytechnic education in equipping individuals with the knowledge and skills to transform the world we live in.

The students and faculty of the department have consistently demonstrated reactivity in organizing and participating in technical, cultural, and social events. I am confident that this newsletter will not only serve as a reflection of these multifaceted activities but will also inspire others to strive for their best. I extend my heartfelt gratitude to everyone who has contributed to the success of our diploma mechanical engineering program. Your collective efforts have ensured that this first issue of the newsletter is a reality. My sincere congratulations to all the students for their hard work and creativity, and my appreciation to the Head of the Department and the faculty members for their motivation and guidance throughout this journey.

PROF. AYUB A. TAMBOLI

Ph. D (Pursuing), ME (HPE),
BE(Mechanical Engineering)
ASHRAE, AWS, ISHRAE, LMISTE,
IE(I), SESI

PRINCIPAL

ZEAL POLYTECHNIC, PUNE

HOD Message

PROF. NILESH KOKARE

The Department of Mechanical Engineering at Zeal Polytechnic, originally established as Dnyanganga Polytechnic in 2008, offers a comprehensive diploma program in mechanical engineering with an intake capacity of 150 students. Since its inception, the department has pursued its vision of becoming a recognized and innovative leader in mechanical engineering education in the Pune region and beyond. Driven by a mission to provide students with a high-quality education coupled with practical exposure, the department empowers students to contribute meaningfully to society through their skills and expertise. It includes specialized subjects such as CAD/CAM and Automation, Alternative Energy Resources, and Material Handling Systems, delivered through modernized laboratories and cutting-edge infrastructure. A highly qualified and experienced team of faculty members forms the backbone of the department. Their commitment to imparting robust academic knowledge and hands-on experience equips students to tackle real-world challenges with confidence and competence. Through its unwavering dedication to innovation and excellence, the Department of Mechanical Engineering continues to uphold its reputation as a center of academic brilliance. It remains steadfast in its mission to prepare students for professional success and meaningful contributions to the advancement of society.

PROF. NILESH N. KOKARE

Lecturer, ME Mechanical Heat Power

HOD

**Department of Mechanical
Engg.,
Zeal Polytechnic**



NEWSLETTER COMMITTEE

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MR. YASH JADHAV

MISS. MUGHDA BENKAR

MR. VAIJUNATH RAUT

Dear Readers,

As contributors to this newsletter, we are thrilled to present a glimpse into our experiences, achievements, and reflections. This edition represents the collective spirit and vibrant energy that define our academic community. Amidst lectures, assignments, and exams, we've discovered moments of inspiration, collaboration, and personal growth. Our journey extends far beyond textbooks – it's about the friendships forged, the challenges embraced, and the victories celebrated together. This newsletter serves as a canvas where our voices, ideas, and aspirations come alive. It's not just a showcase of our achievements but also a platform to share the invaluable lessons we've learned along the way. As we navigate the dynamic landscape of student life, we invite you to be a part of this narrative. Your stories, insights, and perspectives enrich the shared tapestry of our experiences. Let this newsletter stand as a reflection of our collective journey, a celebration of our milestones, and a testament to the vibrant community we are privileged to belong to.

Warm Regards,

The Editorial Team

Mechanical Engineering Students

DEPARTMENTAL VISION AND MISSION

VISION

To impart technical knowledge and professional skills through academic excellence and industry interaction for developing socially and industrially responsible mechanical engineers.

MISSION

- ❖ M1:- To cultivate technical expertise and professional ethics through high-quality education and industry engagement.
- ❖ M2:- To offer practical training, enriching courses, and lifelong learning skills for success in diverse, interdisciplinary social and industrial environment.
- ❖ M3:- To promote problem-solving, communication and entrepreneurial skills while working as individual or member of team.

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1: Provide socially responsible, environment friendly solutions to Mechanical engineering related broad-based problems adapting professional ethics.

PEO 2: Adapt state-of-the-art Mechanical engineering broad-based technologies to work in multidisciplinary work environments

PEO3: Solve broad-based problems individually and as a team member communicating effectively in the world of work.



FACULTY PROFILE

Department of Mechanical Engineering



NAME - Prof.Tamboli Ayub Almso
DEGREE - ME PhD Pursuing
EXPERIENCE - 23 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - ayub.tamboli@zealeducation.com
YEAR - 2023-24



NAME - Mr.Pathak Devidas Madhukarrao
DEGREE - ME Design
EXPERIENCE - 20.5 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - devidas.pathak@zealeducation.com
YEAR - 2023-24



NAME - Mr.Khorane Rameshwar Shankar
DEGREE - ME Heat Power
EXPERIENCE - 22 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - rameshwar.khorane@zealeducation.com
YEAR - 2023-24



NAME - Mr.Shinde Balaji Prabhu
DEGREE - ME Design Pursuing
EXPERIENCE - 10 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - balaji.shinde@zealeducation.com
YEAR - 2023-24



NAME - Mr. Mohammad Amin S.
DEGREE - ME Thermal
EXPERIENCE - 15 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - amin.mohammad@zealeducation.com
YEAR - 2023-24



NAME - Mr.Akale Sugam Bapusaheb
DEGREE - BE Mechanical
EXPERIENCE - 6 Years
SUBJECTS - CAD, Graphics, Som, Manufacturing
MAIL ID - sugam.akale@zealeducation.com
YEAR - 2023-24



NAME - Mr.Chaudhari Swapnil Machhindra
DEGREE - M.Tech (IMWCA), Bsc. B.Ed
EXPERIENCE - 6.6 Years
SUBJECTS - maths
MAIL ID - swapnil.chaudhari@zealeducation.com
YEAR - 2023-24



NAME - Mr.Yenkar Ravi Gopal
DEGREE - ME Mechanical
EXPERIENCE - 13 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - ravi.yenkar@zealeducation.com
YEAR - 2023-24



NAME - Mr.Aghor Shashikant Gajanan
DEGREE - ME Design
EXPERIENCE - 20 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - shashikant.aghor@zealeducation.com
YEAR - 2023-24



NAME - Mr.Pathak Shriram Ramesh Rao
DEGREE - M.Sc. Chemistry
EXPERIENCE - 11 Years
SUBJECTS - Chemistry
MAIL ID - shriram.pathak@zealeducation.com
YEAR - 2023-24



NAME - Mr.Kokare Nilesch Navanath
DEGREE - ME Thermal
EXPERIENCE - 10 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - nilesch.kokare@zealeducation.com
YEAR - 2023-24



NAME - Mr.Mahale Prashant Ramesh

DEGREE - ME Design

EXPERIENCE - 22 Years

SUBJECTS - SOM, TOM, Design, Drawing, Graphics

MAIL ID - prashant.mahale@zealeducation.com

YEAR - 2023-24



NAME - Mr.Chougule Suresh Shivani

DEGREE - ME Production

EXPERIENCE - 10 Years

SUBJECTS - manufacturing

MAIL ID - suresh.chougule@zealeducation.com

YEAR - 2023-24



NAME - Ms.Yadav Poonam Rajendra

DEGREE - BE Mechanical

EXPERIENCE - 0.5 Years

SUBJECTS - CAD, Graphics, Som, Manufacturing

MAIL ID - poonam.yadav@zealeducation.com

YEAR - 2023-24



NAME - Mr.Shaikh Shakil Rajjak

DEGREE - ME Mechanical Design

EXPERIENCE - 9 Years

SUBJECTS - SOM, TOM, Design, Drawing, Graphics

MAIL ID - shakil.shaikh@zealeducation.com

YEAR - 2023-24



NAME - Mr.Charate Manoj Manik

DEGREE - BE.Mechanical

EXPERIENCE - 10 Years

SUBJECTS - CAD, Graphics, Som, Manufacturing

MAIL ID - manoj.charate@zealeducation.com

YEAR - 2023-24

Guest Lecture

1. COMPETITIVE EXAMINATION AND CAREER IN MECHANICAL ENGINEERING

The Department of Mechanical Engineering organized an expert lecture on “**Competitive Examination and Career in Mechanical Engineering**” on 23rd March 2024 in the TYME classroom. The session was delivered by **Mr. Tushar Kulkarni**, Junior Design Engineer at I Tech Technology, Pune, and an esteemed alumnus of our college (Batch of 2018). The primary objective of the session was to create awareness among Third Year Mechanical Engineering students about opportunities in competitive examinations and career prospects in the mechanical engineering field. The session was conducted in the presence of the Head of the Department, Prof. Nilesh Kokare, and faculty member **Mr. Manoj Charate**, who welcomed the alumni guest and highlighted the importance of the lecture on behalf of the department. Mr. Tushar Kulkarni effectively managed the one-hour session, sharing valuable insights and engaging the students in an interactive discussion. The session was attended by 70 students and all faculty members of the Mechanical Engineering Department, making it a highly informative and well-coordinated event. The lecture was successfully coordinated by **Prof. Manoj Charate**, and it served as an excellent opportunity for students to gain practical knowledge and career guidance from an accomplished alumnus.



2. PERSONALITY DEVELOPMENTS

The Department of Mechanical Engineering organized an expert lecture on “**Personality Development**” on **21st March 2024** in the FYME classroom. The session was delivered by **Mr. Nilesh Sabale, Junior Supervisor** at Mahatre Fabrication and Engineering, and an accomplished alumnus of our college (Batch of 2023).

The purpose of the session was to create awareness among First Year Mechanical Engineering students about the importance of personality development and soft skills in shaping their academic and professional journeys. The event was conducted in the presence of the Head of the Department, Prof. Nilesh Kokare, and faculty member **Mr. Amol Chandane**, who welcomed the alumni guest and delivered an introductory speech highlighting the significance of the lecture.

Mr. Nilesh Sabale engaged the students effectively during the one-hour session, sharing practical tips and insights on building essential soft skills and personal growth. The lecture was attended by 40 students and all faculty members of the Mechanical Engineering Department, ensuring an interactive and enriching experience for all participants.

The session was successfully coordinated by Prof. Sachin Surywanshi, making the event a memorable and impactful learning opportunity for the students.



DEPARTMENTAL ACTIVITIES

1. SHIV JAYANTI -2024



SHIV JAYANTI 2024- SUMMER

The Mechanical Engineering Department of Zeal Polytechnic celebrated Shiv Jayanti on 19th February 2024 with great enthusiasm and pride. The event honored the birth anniversary of the legendary Maratha warrior, **Chhatrapati Shivaji Maharaj**, and aimed to foster cultural awareness, unity, and patriotism among students. The day began with a vibrant procession, where participants in traditional attire recreated moments from **Shivaji Maharaj's** life, accompanied by the beats of traditional music. Statues and portraits of Shivaji Maharaj were adorned with flowers and lights, reflecting the deep reverence for his legacy. The celebration featured cultural programs, including traditional dances and folk music, showcasing Maharashtra's rich heritage. Additionally, educational exhibitions and seminars highlighted **Shivaji Maharaj's** military strategies and administrative brilliance, enriching attendees' understanding of his historical significance.

The event concluded with a sense of unity as students and faculty participated in community prayers and joyous celebrations, symbolizing the indomitable spirit of the Maratha Empire.

The Shiv Jayanti celebration was a resounding success, bringing together cultural pride, historical reflection, and community spirit.



2. PARENTS MEETING-

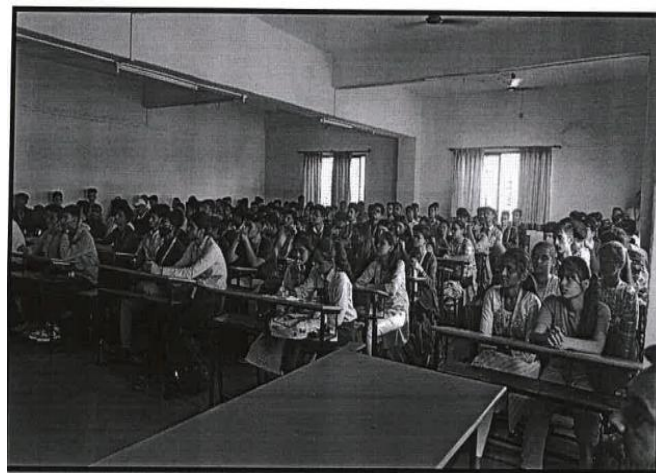
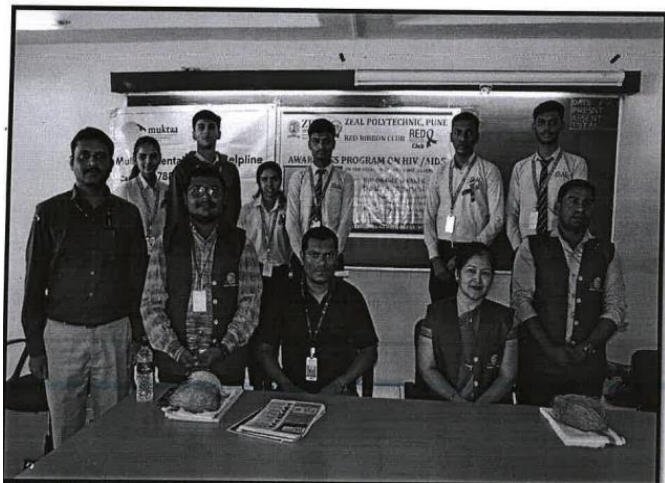
The Department of Mechanical Engineering conducted a Parents' Meeting for FY, SY, and TY students from 22nd to 24th February 2024. The meeting focused on Unit Test 1 result analysis, student attendance, and the importance of Unit Test 2. Hosted by **Prof. Nilesh Kokare**, Head of the Department, the session included interactions between class teachers and parents. Over 200 parents actively participated, expressing appreciation for the department's transparency and raising inquiries about internships, skill development, and industry preparedness. The meeting fostered collaboration and received positive feedback for promoting student well-being and academic progress.



3. RED RIBBON CLUB EVENT

On December 1, 2024, the Mechanical Department organized a RED Ribbon Club awareness program in the Seminar Hall of the Civil Department. Coordinated by Prof. Amol Chandane, the event featured Dr. Rupa Agrawal, Secretary and Founder Trustee of the Mukta Charitable Foundation, as the guest speaker. The session focused on creating awareness about HIV/AIDS, sexually transmitted infections (STIs), and youth health challenges in a supportive and stigma-free environment. Dr. Agrawal delivered an impactful lecture on prevention, early diagnosis, and breaking myths surrounding HIV/AIDS while emphasizing the importance of fostering a healthy lifestyle. The interactive session allowed students to engage in open discussions, enhancing their understanding and dispelling misconceptions.

The program was inaugurated by Prof. Amol Chandane, with Dr. Rupa Agrawal felicitated by HOD Prof. Nilesh Kokare for her valuable contributions to public health. The event also distributed educational materials to the attendees, ensuring continued awareness. The initiative successfully encouraged students to adopt informed health practices and advocate for inclusivity in their communities, making it a significant step toward promoting youth health awareness.



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RED RIBBON Club **RED RIBBON CLUB**

AWARENESS PROGRAM ON
HIV/AIDS
ON THE OCCASION OF YOUTH DAY -12 JANUARY

Honorable Speaker
DR. RUPA AGARWAL
Secretary And Founder Trustee Of The Muktaa Charitable Foundation
President General Practitioners Association, Pune 2020-21
BHMS, CCH(USA), RH HOM(USA), Lifestyle & amp;
weight Management consultant (USA)

VENUE : E4-10 (CIVIL DEPARTMENT)

INDUSTRIAL VISIT

1. INDUSTRIAL VISIT TO RATNADEEP CASTING

The Department of Mechanical Engineering organized an industrial visit to **Ratnadeep Casting**, Khed Shivapur, on 19th January 2024 for Second Year (SY) Mechanical Diploma students. The visit provided students with valuable insights into industrial casting processes and operations. Guided by Mr. Laxman Shinde, Proprietor of Ratnadeep Casting, students observed key manufacturing techniques, including green sand casting and CO2 sand casting. These demonstrations allowed students to understand mold preparation, pouring techniques, and finishing processes. The working of an electric induction furnace was also explained, showcasing its role in efficient and precise metal melting. Additionally, the importance of quality control measures to ensure defect-free casting production was highlighted during the session.

The visit was successfully coordinated by **Prof. Manoj Charate**, with significant support from Prof. S.S. Suryawanshi, Prof. Suresh Chougule, and Prof. Poonam Yadav. It served as an excellent platform for students to bridge the gap between theoretical knowledge and practical applications. By witnessing real-world industrial operations, students gained a deeper understanding of modern manufacturing techniques and their implementation in the casting industry. The visit not only enhanced their technical knowledge but also prepared them for future industry challenges, fostering a hands-on learning experience that will benefit their professional growth.





2. INDUSTRIAL VISIT TO SCIENCE PARK, PIMPARI CHINCHWAD, PUNE

The Department of Mechanical Engineering organized the industry visit to **Science Park in Chinchwad** for the first-year students of the Mechanical Engineering Department on 15/02/2024. The objective of the visit was to expose students to cutting-edge technologies, scientific advancements, and interactive exhibits that align with their academic curriculum and spark curiosity about the applications of mechanical engineering in the real world.

The visit to Science Park provided students with a captivating experience, immersing them in interactive exhibits that showcased the practical applications of mechanical engineering principles. The hands-on demonstrations and virtual reality simulations offered a unique perspective on how theoretical concepts translate into real-world solutions.

The industry visit to Science Park was a valuable experience for the second-year Mechanical Engineering students. It not only enriched their understanding of the applications of mechanical engineering but also inspired them to explore interdisciplinary connections between mechanical engineering and other scientific fields. This visit was successfully coordinated by Mr. Manoj Charate , Mr. Balaji Shinde, Mr. Amol Chandane and Mrs Monali Bhadare.



3. INDUSTRIAL VISIT TO SUZLON ENERGY LTD. VANKUSWADE, SATARA

The Department of Mechanical Engineering organized an industrial visit to **Suzlon Energy Ltd., Vankuswade, Satara**, for the Third Year (TY) Mechanical Diploma students. This visit provided a unique opportunity for students to understand the real-world applications of renewable energy technologies, particularly wind energy systems. Suzlon Energy, a pioneer in the wind energy sector, offered insights into the operation, maintenance, and efficiency of wind turbines. Students explored the intricacies of turbine design, manufacturing processes, and the mechanisms involved in power generation and grid integration. The technical team at Suzlon elaborated on the environmental significance of renewable energy, emphasizing its role in sustainable development and global energy solutions.

The visit was coordinated by **Prof. Manoj Charate**, with crucial support from Prof. Suresh Chougule and Prof. Amol Chandane, ensuring the program's success. Students had the opportunity to witness cutting-edge technologies and gain practical knowledge, bridging the gap between academic concepts and industrial applications. This hands-on exposure inspired many to consider careers in renewable energy, aligning with global shifts towards sustainability. The visit was a transformative learning experience, equipping students with insights into industry operations and motivating them to contribute to advancements in sustainable energy solutions.



4. VISIT TO MAHARASHTRA MSME DEFENCE EXPO, PUNE

The Department of Mechanical Engineering at Zeal Polytechnic organized a visit for all students to the **Maharashtra MSME Defence Expo 2024 held on 26th February 2024**, which was hosted by the Government of Maharashtra. This expo provided a valuable platform for students to explore the latest advancements in the defense sector, showcasing innovative technologies, machinery, and equipment developed by micro, small, and medium enterprises (MSMEs) in Maharashtra. The event offered students a unique opportunity to witness firsthand the role that MSMEs play in national defense production, and gain insights into various defense manufacturing processes. Exhibitors at the event displayed cutting-edge solutions, ranging from defense machinery to critical components, helping students understand the intersection of engineering and defence technology.

During the visit, students had the chance to interact with industry experts, learn about the latest trends in defense production, and explore potential career opportunities within the defense and aerospace industries. The event also emphasized the importance of MSMEs in contributing to the country's defense capabilities and national security. Coordinated by **Prof. Manoj Charate and Prof. Shashikant Aghor**, the visit was a resounding success, with both professors ensuring the seamless execution of the event. Their efforts provided students with an enriching experience that not only broadened their knowledge of defense technology but also inspired them to consider careers in one of the most advanced and impactful sectors.

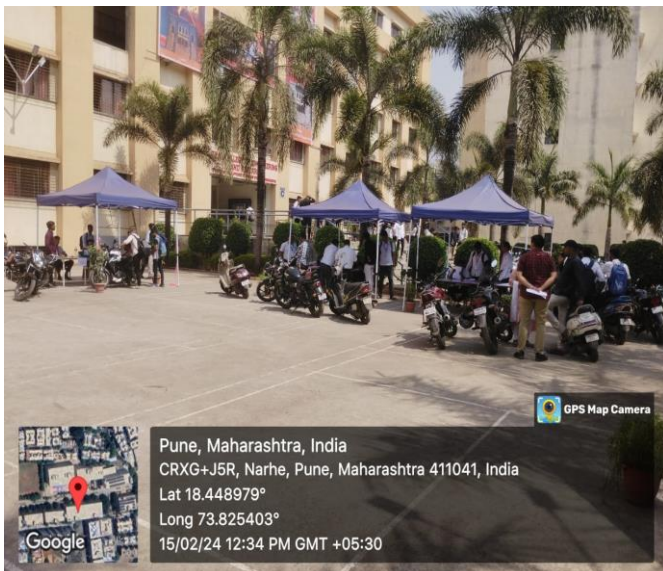


MESA ACTIVITIES

1. MEGA PUC CAMP

The **Free Two-Wheeler Mega Pollution Check-up (PUC)** Camp was successfully organized by the Department of Mechanical Engineering under the **Mechanical Engineering Students' Association (MESA)** on **15th February 2024** from 10:00 AM to 4:00 PM. The event was designed to promote environmental awareness and encourage responsible vehicle maintenance by providing free pollution checks for two-wheelers. The camp aimed to help participants assess their vehicle emissions and ensure they met the required environmental standards. **Mr. Ravindra Mohar**, a resource person from a PUC Centre in Nanded, led the camp, using his expertise to conduct accurate pollution checks while educating attendees on the importance of proper vehicle upkeep in reducing environmental impact. The camp also emphasized the role of regular maintenance in maintaining low emission levels, which is vital in reducing air pollution. The camp was well-attended by students, faculty, and staff, who appreciated the initiative and took advantage of the free service to ensure their vehicles were environmentally compliant.

The event was meticulously coordinated by **Prof. Sachin Surywanshi and the dedicated MESA students**, who played an instrumental role in ensuring the smooth execution of the camp. The successful organization of the event was made possible with the valuable guidance and support provided by **Principal Prof. A. A. Tamboli and HOD Prof. N. N. Kokare**. Their encouragement and leadership ensured the initiative's success, highlighting the Department of Mechanical Engineering's commitment to sustainability and community engagement. The camp not only provided a practical service but also raised awareness among the participants about the importance of pollution control and environmental responsibility. Through this initiative, the department reinforced its dedication to fostering a cleaner environment and promoting responsible practices among its community.



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DEPARTMENT OF MECHANICAL ENGINEERING

In association with
MECHANICAL ENGINEERING STUDENT ASSOCIATION (MESA)
organizes

**FREE TWO WHEELER MEGA
POLLUTION CHECK UP (PUC) CAMP**

15th February 2024
10.00 AM to 04.00 PM

Note
1. ID card is compulsory
2. Driving Licence Xerox is compulsory



ISHRAE ACTIVITIES

1. EXPERT TECH TALK – LOW COST AIR CONDITIONING SYSTEM

The The ZEAL Poly-ISHRAE Student Chapter organized a technical talk on “Low-Cost Air-Conditioning Systems” on Tuesday, 16th January 2023. The talk was delivered by **Mr. Shamkant Mirashi**, a post-graduate in Physics with over 25 years of industrial experience and a serial entrepreneur. He is a qualified Energy Manager with certifications like Auditor ISO 50001-BSI and Green Building AP-IGBC. He is a strong advocate of sustainability and has worked extensively in energy efficiency and alternate energy sources, especially focusing on low-energy air conditioning systems. Mr. Mirashi’s work has earned him awards from reputed organizations such as CII and WWF. The technical session aimed to raise awareness about low-cost air-conditioning systems and their importance in reducing energy consumption, a crucial topic in today’s sustainability-driven world.

The event was attended by 70 students, including last-year diploma students of the Mechanical Engineering Department. The session was introduced by Miss. Ashlesha Mandhare, the student anchor, who welcomed the dignitaries and facilitated the felicitation of Mr. Shamkant Mirashi by HOD Prof. Nilesh Kokare and Academic Coordinator Mr. Devidas Pathak. The session, which lasted for an hour, was conducted

efficiently by Mr. Mirashi, who shared his expertise and insights into the field of low-cost air-conditioning. Mr. Vishal Pawar, Youth Chair of the ISHRAE Pune Chapter, was also present, adding to the event's prestige. The session concluded with a Vote of Thanks by Mr. Sachin Surywanshi, the ISHRAE faculty advisor. The technical talk was successfully coordinated by Mr. Sachin Surywanshi, with support from the faculty members of the Mechanical Engineering Department. This event provided valuable knowledge to the students about sustainable and energy-efficient technologies in air conditioning.



ISHRAE
Pune Chapter



YOUTH@
ISHRAE



STUDENTS@
ISHRAE



EET



ISHRAE

TECH TALK

Date : 16th January 2024 | Time : 1 to 3 PM
Venue : Zeal Polytechnic, Pune



Dr. Anshul Gujarathi
Founder Director, Eco Solutions
Topic : Careers in Energy Efficiency

Dr. Anshul Gujarathi, Founder, and Director - Eco Solutions with all the green credentials and right qualifications, is in practice for 23+ years with a focus on green architecture & sustainability with many other accolades including the 2022 World Green Building Council for Woman in Sustainability Award runner up at Asia Pacific Level. Her Doctoral Research (Ph.D.) "Cost Implications in Green Residential Buildings" addressed a major controversy of cost for green buildings and she is focused to deliver Green Cost Neutral or Cost Beneficiary projects. She has 15 white paper publications in International & National Journals, with International Best Paper Award at ICAMC Thailand in 2015 and paper indexed in Scopus. A reviewer on Elsevier Board, a regular writer for sustainable magazines and newspapers, authored a sustainable manual.



Mr. Shamkant Mirashi
ICP/IEC & Training Chair
Topic : Low Cost Air Conditioning System

Mr. Shamkant Mirashi is post Graduate in Physics having over 25 years of industrial experience and Serial Entrepreneur. He is Qualified Energy Manager with professional certifications like Lead Auditor ISO 50001-BSI, Green Building AP-IGBC. He is a strong advocate of sustainability and worked for more than 10 years in Energy efficiency, Alternate Energy sources. His area of expertise lies in Low energy Air Conditioning systems. He has won awards from reputed organizations like CII and WWF.

RSVP : **Prof. Nilesh Gaikwad** (Student Chair) : 96047 00437
Mr. Subhash Khanade (Secretary) : 9822641492
Mr. Chetan Thakur (Treasurer) : 9923080800
Mr. Ashutosh Joshi (President Elect.) : 98500 42130
Mr. Nandkishor Kotkar (President) : 99220 02663

Society Year Platinum Partner



Refrigeration Partner



Society Year Gold Partners





Silver Partner




IoT & AI Partner



Sustainability Partners




ISHRAE Pune Chapter : Office No. 90/91/92, D-Wing, 4th Floor,
K. K. Market, Pune-Satara Road, Dhankawadi, Pune - 411 043



2. EXPERT TECH TALK - CAREER IN ENERGY EFFICIENCY

The ZEAL Poly-ISHRAE Student Chapter organized a highly informative technical talk on “Career in Energy Efficiency” on Tuesday, 16th January 2023, which was attended by last-year diploma students of the Mechanical Engineering Department. The speaker, Dr. Anshul Gujarathi, is the founder and director of Eco

Solutions, with over 23 years of experience in the field of green architecture and sustainability. She has earned several accolades for her work, including being the runner-up for the 2022 World Green Building Council Women in Sustainability Award (Asia Pacific). Dr. Gujarathi's Ph.D. research on "Cost Implications in Green Residential Buildings" addressed the crucial issue of cost versus benefit in green construction, and she has been a prominent advocate for green, cost-neutral projects. She has published 15 white papers in international and national journals, won best paper awards at international conferences, and is a reviewer for Elsevier. Her extensive experience and contributions to sustainability made this talk highly valuable for the students interested in energy efficiency and sustainable career paths.

The event was coordinated smoothly by Mr. Sachin Surywanshi, the ISHRAE faculty advisor, with support from Mr. Vishal Pawar, the Youth Chair of the ISHRAE Pune Chapter, who was also present. The session began with an introduction of the guest speaker by Miss. Ashlesha Mandhare, the student anchor, followed by the felicitation of Dr. Anshul Gujarathi by Mr. Sachin Surywanshi. The talk, which lasted for one hour, was centered around creating awareness about energy efficiency careers and the growing importance of sustainability in the construction and energy sectors. The session was attended by 70 students, including faculty members of the Mechanical Engineering Department. At the conclusion of the event, a Vote of Thanks was given by Mr. Sachin Surywanshi, acknowledging Dr. Gujarathi's insights and the students' participation. This session provided valuable guidance to students seeking to pursue careers in energy efficiency and sustainability, fostering greater awareness and opportunities in this rapidly growing field.



DEPARTMENTAL WORKSHOP

1. WORKSHOP ON AUTOMOTIVE TECHNOLOGY AND PRACTICES

The Department of Mechanical Engineering conducted a one-day orientation workshop on "Automotive Technology and Practices" on 11th March 2024 for final-year Diploma students. The workshop focused on enhancing students' understanding of engine assemblies, including the gearbox, clutch plates, and braking systems of two-wheeler and four-wheeler vehicles. **Mr. Ramesh Raghunath Bhadwalkar**, Senior Facilitator at TATA Strive, ZCOER Narhe, Pune, led the session, offering detailed insights into the components and working of a 4-stroke petrol engine, such as the multi-plate clutch assembly, gearbox assembly, fuel injection system assembly, and drum braking system. This hands-on workshop also aligned with the practical's of Power Engineering and Automobile Engineering subjects, covering essential topics like engine assembly, fuel injection systems, clutch systems, gearbox arrangements, and brake systems.

The workshop was meticulously coordinated by **Prof. S. S. Surywanshi** and **Prof. B. P. Shinde**, ensuring its smooth execution and active student participation. Through detailed demonstrations and practical activities, students gained valuable technical knowledge and hands-on experience with vehicle systems, bridging the gap between classroom theory and practical applications in the field of automotive technology. This initiative empowered students to better understand industry-relevant skills and prepared them for future technical challenges in the automotive sector.



TRAINING AND PLACEMENT ACTIVITIES

MECHANICAL ENGINEERING 2023-24 (PLACEMENT SUMMARY)

Sr. No.	Name of Student	Name of Company	CTC Offered
1	Vaibhav Vishwanath Darwatkar	Schnellecke Jeena Logistics	2.34 LPA
2	Aditya Dipak Bhadarge	Schnellecke Jeena Logistics	2.34 LPA
3	Atharv Ramdas Jadhav	Schnellecke Jeena Logistics	2.34 LPA
4	Soham Sandeep Pangare	Schnellecke Jeena Logistics	2.34 LPA
5	Mangesh Chandrasen Ghute	Schnellecke Jeena Logistics	2.34 LPA
6	Rutik Dattatray Chaudhari	Schnellecke Jeena Logistics	2.34 LPA
7	Mosin Shaikh	Schnellecke Jeena Logistics	2.34 LPA
8	Dhebe Sunil Dhondiba	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
9	Joglekar Rushikesh Vinay	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
10	Kadam Yash Vinod	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
11	Mishra Sonu Suresh	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
12	Mulgund Prashant Somnath	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
13	Pawar Lokesh Balaso	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
14	Sakpal Nitin Ramchandra	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
15	Shirke Adarsh Umesh	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
16	Karale Rohan Suresh	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
17	Chaudhari Rutik Dattatray	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
18	Ghute Mangesh Chandrakant	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
19	Jadhav Atharv Ramdas	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
20	Pangare Soham Sandeep	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
21	Shaikh Mosin Shakil	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
22	Rokade Siddhesh Rajesh	SPM Auto Comp Systems Pvt. Ltd.	2.10 LPA
23	Nitin Ramchandra Sakpal	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
24	Aditya Dipak Bhadarge	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
25	Rohan Suresh Karale	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
26	Yash Kadam	Bosch Chassis Systems Pvt. Ltd	2.12 LPA

27	Sonu Suresh Mishra	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
28	Pranav Ravindra Patil	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
29	Atharv Ramdas Jadhav	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
30	Mosin Shakil Shaikh	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
31	Prashant Somnath Mulgund	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
32	Varad Uday Gadre	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
33	Sunil Dhondiba Dhebe	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
34	Adarsh Umesh Shirke.	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
35	Soham Sandeep Pangare	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
36	Rushikesh Vinay Joglekar	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
37	Sanhita Keshavrao Shindepatil	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
38	Rutik Dattatray Chaudhari	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
39	Tanishktushar Suryawanshi	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
40	Lokesh Balaso Pawar	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
41	Omkar Sandeep Sanas	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
42	.Aditya Babu Gaikwad	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
43	.Anish Nilesh Deshmukh	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
44	Ashitosh Ramesh Naske	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
45	Vaibhav Vishwanath Darwatkar	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
46	Mangesh Chandrasen Ghute	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
47	Mohan Hanumant Garad	Bosch Chassis Systems Pvt. Ltd	2.12 LPA
48	Rushikesh Vinay Joglekar	GE Aerospace	2.0 LPA
49	Varad Uday Gadre	GE Aerospace	2.0 LPA
50	Sunil Dhondiba Dhebe	GE Aerospace	2.0 LPA
51	Sanhita Keshavrao Shindepatil	GE Aerospace	2.0 LPA
52	Yash Vinod Kadam	GE Aerospace	2.0 LPA
53	Rutik Dattatray Chaudhari	GE Aerospace	2.0 LPA
54	Rohan Suresh Karale	GE Aerospace	2.0 LPA
55	Mosin Shakil Shaikh	GE Aerospace	2.0 LPA
56	Aditya Babu Gaikwad	GE Aerospace	2.0 LPA

57	Mangesh Chandrasen Ghute	GE Aerospace	2.0 LPA
58	Swarup Ankush Gothal	Cummins India Pvt Ltd	2.04 LPA
59	Jay Vijay Joshi	Cummins India Pvt Ltd	2.04 LPA
60	Sahil Sanjay Kumbhar	Cummins India Pvt Ltd	2.04 LPA
61	Anurag Sanjay Tiwari	Cummins India Pvt Ltd	2.04 LPA
62	Rutik Rajendra Kamble	Cummins India Pvt Ltd	2.04 LPA
63	Utkarshtirthraj Patil	Cummins India Pvt Ltd	2.04 LPA
64	Rahul Rajesh Bet	Cummins India Pvt Ltd	2.04 LPA
65	Pradnya Ravindra Pawar	Cummins India Pvt Ltd	2.04 LPA
66	Atharva Ganesh Bhadale	Cummins India Pvt Ltd	2.04 LPA
67	Om Shrikant Konnur	Cummins India Pvt Ltd	2.04 LPA
68	Samarth Anand Barake	Cummins India Pvt Ltd	2.04 LPA
69	Kunal Vasant Nadgeri	Cummins India Pvt Ltd	2.04 LPA
70	Anish Nilesh Deshmukh	Cummins India Pvt Ltd	2.04 LPA
71	Vaibhav Vishwanath Darwatkar	Cummins India Pvt Ltd	2.04 LPA
72	Nitin Ramchandra Sakpal	Cummins India Pvt Ltd	2.04 LPA
73	Aditya Dipak Bhadarge	Cummins India Pvt Ltd	2.04 LPA
74	Pranav Ravindra Patil	Cummins India Pvt Ltd	2.04 LPA
75	Atharv Ramdas Jadhav	Cummins India Pvt Ltd	2.04 LPA
76	Prashant Somnath Mulgund	Cummins India Pvt Ltd	2.04 LPA
77	Sonu Suresh Mishra	Cummins India Pvt Ltd	2.04 LPA
78	Siddhesh Rakesh Rokade	Cummins India Pvt Ltd	2.04 LPA
79	Soham Sandeep Pangare	Cummins India Pvt Ltd	2.04 LPA
80	Akhilesh Laxman Patil	Cummins India Pvt Ltd	2.04 LPA
81	Mohan Hanumant Garad	Cummins India Pvt Ltd	2.04 LPA

ACADEMIC ACHIVEMENTS OF STUDENTS**1. Topper List First Year Mechanical Engineering Students Winter 2023**

Winter 2023	Sem I	Enrollment Number	Candidates Name	Total marks	Total marks obtained	present	Result (Class)
		23252271228	GIRI KIRAN RAVI	850	762	89.65	DISTINCTION
		23252271230	GOLEKAR KRUSHNA SHAM	850	717	84.35	DISTINCTION
		23252271261	MADHURA SARAF	850	705	82.94	DISTINCTION

2. Topper List Second Year Mechanical Engineering Students Winter 2023

Winter 2023	Sem III	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2209880531	JALGEKAR SUMIT MANJUNATH	950	799	84.11	DISTINCTION
		2209880532	ANKUSH PRATIK HANUMANT	950	780	82.11	DISTINCTION
		2209880534	JADHAV ASHOK SHARAD	950	747	78.63	DISTINCTION

3. Topper List Third Year Mechanical Engineering Students Winter 2023

Winter 2023	V SEM	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2109880591	JADHAV YASH UTTAM	1050	985	93.81	DISTINCTION
		2109880597	JOGLEKAR RUSHIKESH VINAY	1050	935	89.05	DISTINCTION
		2109880583	HARSH ARUN KHUTEKAR	1050	930	88.57	DISTINCTION



**THANK
YOU!**

ZEAL POLYTECHNIC, NARHE, PUNE
DEPARTEMENT OF MECHANICAL ENGINEERING

ZEAL MECHANICAL DEPARTMENT