

NEWSLETTER

WINTER

2022

Volume No. 3 / Issues 1 /
2022-23



ZEAL
INSTITUTES
www.zealeducation.com
NARHE | PUNE | INDIA



ZEAL POLYTECHNIC, PUNE

**DEPARTMENT OF
MECHANICAL ENGINEERING**





ABOUT INSTITUTE ZEAL POLYTECHNIC, NARHE, PUNE

Zeal Education Society was established in 1996 with the vision to offer education with a difference, the expert guidance of Hon. Shri. S.M. Katkar, a distinguished industrialist. ZES hosts eight institutes that provide quality education to students from pre- primary to Ph.D. courses.

Zeal Polytechnic started in 2008 and offers Diploma Courses in Mechanical Engineering, Civil Engineering, Computer Engineering, Electronics and Telecommunication Engineering & Electrical Engineering.

The institute aims at providing the students with excellent Infrastructure, state of the art facilities, well-equipped laboratories and a strong force of faculty members. This has resulted in incredible performance of the students continually throughout the years. Recently, our Founder director has been conferred with the 'Icon of Education 'award by Lokmat media group in the presence of Hon. Smt. Smriti Irani, Former HRD Minister, Government of India from Hon. Shri. Vinod Tawde, former Technical Education Minister, Maharashtra State.

Principal's Message

Prof. Ayub A. Tamboli

I am very happy to note that the department of Mechanical Engineering of Zeal Polytechnic is releasing its newsletter enumerating the various activities and achievements of their faculty and students. I take immense pride in acknowledging the outstanding academic achievements of our diploma mechanical engineering students. Your commitment to excellence and the pursuit of knowledge has been commendable. Your academic journey is a testament to the dedication and hard work you have invested in your education. Polytechnic education provides the knowledge and skills required to help revolutionize the world in which we live. The students and faculty of department are proactive in taking initiatives in technical, cultural and social events. I hope this newsletter will serve the purpose of reflecting all activities of this department and it will inspire others to do their best. I express my gratitude to each one of you for your contributions to the success of our diploma mechanical engineering program. Together, let us continue to strive for excellence and innovation I congratulate all the students who have put their efforts in bringing this first issue of newsletter and also appreciate HOD and all faculty members for motivating the students towards this fulfillment. I wish each one of them in the department success in all their endeavors.



Prof. Ayub A. Tamboli
Ph. D Pursuing, ME(HPE), BE(ME)
Principal,
Zeal Polytechnic, Narhe, Pune.



HOD Message

Prof. Rameshwar Khorane

The Department was established as Dnyanganga Polytechnic in 2008. It offers a diploma in mechanical engineering and can accommodate 150 students. We function with the vision that the Department should get recognized as an innovative and leading Mechanical department in Pune region and afar. The department aims at offering students with the high-quality education clubbed with practical exposure that empowers them with the ability to aid the society by their services in the future. The Department aims at making superior diploma engineering professionals through academic brilliance and excellent education. The syllabus in Mechanical Engineering is steered with an extraordinary approach that helps students to meet the modern requirements of industries. To cater to the current advancement in technology, new subjects such as CAD / CAM and Automation, alternative Energy Resources, Material Handling System are also conducted using modernized laboratories and the required infrastructure. A team of well qualified and experienced faculty members forms the backbone of the Department. This team is determined to empower students with sound academic knowledge and practical experience which in turn makes the students ready to face the industry challenges.



Prof. S G. Aghor
HOD,
M.E. (Design)

EDITORIAL

Dear Readers,

As the students contributing to this newsletter, we are excited to bring you a snapshot of our experiences, achievements, and reflections. This edition is a testament to the collective spirit that defines our academic community. Amidst lectures, assignments, and exams, we've found moments of inspiration, collaboration, and growth. Our journey goes beyond textbooks – it's about the friendships formed, the challenges faced, and the victories celebrated together. This newsletter is a canvas where our voices, ideas, and aspirations come to life. It's a platform to share not just our achievements but also the lessons learned along the way. As we navigate the diverse tapestry of student life, we invite you to join us in this narrative. Your stories, insights, and perspectives are vital to the richness of our shared experiences. Let this newsletter be a reflection of our collective journey, a celebration of our achievements, and a reminder of the vibrant community we are privileged to be a part of.

Warm Regards,

The Editorial Team
Mechanical Engineering Students

NEWSLETTER COMMITTEE

CHIEF EDITORIAL

Prof. Sachin Surywanshi
Prof. Balaji Shinde

EDITORIAL TEAM

Miss. Prdanya Pawar,
Mr. Chinmay Bhalerao,
Mr. Gaurang Chitnis,
Miss. Ashlesha
Manndhare.

FACULTY PROFILE

Department of Mechanical Engineering



NAME - Prof. Tamboli Ayub Almsa
DEGREE - ME PhD Pursuing
EXPERIENCE - 22 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - ayub.tamboli@zealeducation.com
YEAR - 2022-23



NAME - Mr. Pathak Devidas Madhukarrao
DEGREE - ME Design
EXPERIENCE - 19.5 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - devidas.pathak@zealeducation.com
YEAR - 2022-23



NAME - Mr. Khorane Rameshwar Shankar
DEGREE - ME Heat Power
EXPERIENCE - 21 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - rameshwar.khorane@zealeducation.com
YEAR - 2022-23



NAME - Mr. Shinde Balaji Prabhu
DEGREE - ME Design Pursuing
EXPERIENCE - 09 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - balaji.shinde@zealeducation.com
YEAR - 2022-23



NAME - Mr. Mohammad Amin S.
DEGREE - ME Thermal
EXPERIENCE - 14 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - amin.mohammad@zealeducation.com
YEAR - 2022-23



NAME - Mr.Akale Sugam Bapusaheb
DEGREE - BE Mechanical
EXPERIENCE - 7 Years
SUBJECTS - CAD, Graphics, Som, Manufacturing
MAIL ID - sugam.akale@zealeducation.com
YEAR - 2022-23



NAME - Mr.Chaudhari Swapnil Machhindra
DEGREE - M.Tech (IMWCA), Bsc. B.Ed
EXPERIENCE - 5.5 Years
SUBJECTS - maths
MAIL ID - swapnil.chaudhari@zealeducation.com
YEAR - 2022-23



NAME - Mr.Yenkar Ravi Gopal
DEGREE - ME Mechanical
EXPERIENCE - 12 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - ravi.yenkar@zealeducation.com
YEAR - 2022-23



NAME - Mr.Aghor Shashikant Gajanan
DEGREE - ME Design
EXPERIENCE - 19 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - shashikant.aghor@zealeducation.com
YEAR - 2022-23



NAME - Mr.Pathak Shriram Ramesh Rao
DEGREE - M.Sc. Chemistry
EXPERIENCE - 10 Years
SUBJECTS - Chemistry
MAIL ID - shriram.pathak@zealeducation.com
YEAR - 2022-23



NAME - Mr.Kokare Nilesch Navanath
DEGREE - ME Thermal
EXPERIENCE - 09 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - nilesch.kokare@zealeducation.com
YEAR - 2022-23



NAME - Mr.Charate Manoj Manik
DEGREE - BE.Mechanical
EXPERIENCE - 09 Years
SUBJECTS - CAD, Graphics, Som, Manufacturing
MAIL ID - manoj.charate@zealeducation.com
YEAR - 2022-23



NAME - Mr.Mahale Prashant Ramesh
DEGREE - ME Design
EXPERIENCE - 21 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - prashant.mahale@zealeducation.com
YEAR - 2022-23



NAME - Mr.Chougule Suresh Shivaning
DEGREE - ME Production
EXPERIENCE - 09 Years
SUBJECTS - manufacturing
MAIL ID - suresh.chougule@zealeducation.com
YEAR - 2022-23



NAME - Mr. Dr.Aitavade Eknath Nivrutti
DEGREE - PhD
EXPERIENCE - 29 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - eknath.aitavade@zealeducation.com
YEAR - 2022-23



NAME - Mr.Chandane Amol Manik
DEGREE - ME Thermal
EXPERIENCE - 7 Years
SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics
MAIL ID - amol.chandane@zealeducation.com
YEAR - 2022-23



NAME - Mr.Shaikh Shakil Rajjak
DEGREE - ME Mechanical Design
EXPERIENCE - 8 Years
SUBJECTS - SOM, TOM, Design, Drawing, Graphics
MAIL ID - shakil.shaikh@zealeducation.com
YEAR - 2022-23



NAME - Mr.Garande Tatyaso Annaso

DEGREE - ME Design

EXPERIENCE - 9 Years

SUBJECTS - SOM, TOM, Design, Drawing, Graphics

MAIL ID - tatyaso.garande@zealeducation.com

YEAR - 2022-23



NAME - Mrs.Bhurke Nivedita S.

DEGREE - BE E&TC

EXPERIENCE - Years

SUBJECTS - E and Tc

MAIL ID - nivedita.bhurke@zealeducation.com

YEAR - 2022-23



NAME - Mr.Nagmode Rahul Shivram

DEGREE - ME Design

EXPERIENCE - 7 Years

SUBJECTS - SOM, TOM, Design, Drawing, Graphics

MAIL ID - rahul.nagmode@zealeducation.com

YEAR - 2022-23



NAME - Mr.Jadhav Bhairavnath Ratilal

DEGREE - ME Heat Power

EXPERIENCE - 7 Years

SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics

MAIL ID - bhairavnath.jadhav@zealeducation.com

YEAR - 2022-23

Expert Talk



The Department of Mechanical Engineering organized an Expert webinar. Expert talk given by Dr. Vikas Shinde on 22nd November 2022, Project-Based Learning (PBL) has gained significant recognition as an effective pedagogical approach, fostering active learning and practical skill development. This expert explores the integration of PBL into guest lectures, aiming to enhance student engagement and deepen their understanding of real-world applications.

Objectives:

Evaluate the effectiveness of incorporating PBL into guest lectures.

Measure the impact on student engagement and participation.

Assess the development of practical skills and knowledge application.

the evolving landscape of engineering. Emphasizing the importance of adaptability and continual learning, the speaker outlined current trends, challenges, and avenues for personal and professional growth within the engineering sector. A highlight of the event was the industry panel discussion, where professionals from diverse engineering disciplines shared their unique journeys. The panelists offered candid insights into their career trajectories, discussing challenges they encountered and overcame. Their narratives provided a nuanced understanding of the varied paths one can take in the engineering profession, inspiring students to embrace the uncertainties that come with the pursuit of excellence. Technical skill development took center stage in the subsequent session, underscoring the importance of staying abreast of the latest advancements. Industry experts shed light on in-demand technical skills, urging students to cultivate a mindset of continual learning. This session served as a roadmap for students to align their skillsets with the evolving needs of the engineering landscape. The alumni success stories segment brought forth living proof of the transformative power of an engineering education. Accomplished alumni shared their post-engineering journeys, detailing how they navigated the transition from academia to industry. These success stories served as beacons of inspiration, illuminating the myriad possibilities awaiting the diligent and ambitious engineer. Interactive workshops offered students a hands-on experience, covering essential aspects such as resume building, interview techniques, and soft skills development. The practical insights gained during these sessions empowered students to present themselves effectively in a competitive job market. The networking session provided a platform for students to engage with industry professionals and alumni on a more personal level. One-on-one interactions and Q&A sessions allowed students to seek advice, clarify doubts, and establish connections that could potentially shape their future endeavors. As the seminar concluded, participants left with a richer understanding of the engineering profession. The event served not only as an information-sharing platform but also as a catalyst for students to reflect on their own aspirations and chart a course towards a successful engineering career. In essence, "Navigating the Engineering Landscape" was not just a seminar; it was a beacon of guidance, a nexus of experience, and a catalyst for the future engineers, illuminating their path toward a promising and fulfilling professional journey.

Guest Lecture

1. LECTURE ON - AUTOMATION AND ROBOTICS

The Department of Mechanical Engineering organized an Expert Lecture on “Robotics and Automations” on 1st Oct 2022 in the Auditorium Hall (CSMA). Mr. Ritesh Sharma, ADAPTICS Automation Technologies Pvt, Ltd, Pune was invited to interact with Third Year Mechanical Engineering students, to create awareness about recent deployments in automation and new tech. Automation and robotics have emerged as transformative technologies, reshaping industries and revolutionizing the way we work. This synergy of hardware and software integration has significantly impacted manufacturing, healthcare, logistics, and various other sectors. This overview delves into the key aspects of automation and robotics, exploring their applications, benefits, challenges, and the future trajectory of these technologies. The lecture was conducted in the presence of the Head of the Department, Prof. S. G. Aghor, and the Subject Teacher Prof. S. D. Limaye.

Prof. S. D. Limaye welcomed the guest, gave introductory speech and importance of guest lecture on behalf of Department and Mr. Ritesh Sharma started the session. Session was conducted for 2 hrs. He managed the program effectively. All faculty members of the Mechanical Engineering Department were present for the session. The lecture was attended by 70 students and was coordinated successfully by Prof. S. D. Limaye.



2. LECTURE ON – DESIGN, MANUFACTURE AND ERECTION OF PROCESS PLANT/ COMPONENT

The Department of Mechanical Engineering organized an Expert Lecture on “**Design, Manufacture and erection of process plant/ component**” on 6th Oct 2022 in the Auditorium Hall (CSMA) Mr. Ashok Khopkar, Freelancer, Motivation Speaker Washi was invited to interact with Third Year Mechanical Engineering students, to create awareness about process plant. The design, manufacture, and erection of process plants and components represent a critical and intricate phase in the lifecycle of industrial infrastructure. This overview explores the key elements and considerations involved in this process, emphasizing the importance of precision, safety, and efficiency.

The lecture was Conducted in the presence of the Head of the Department, **Prof. S. G. Aghor**, and the Subject Teacher **Prof. S. D. Limaye**.

Prof. S. D. Limaye welcomed the guest, give introductory speech and importance of guest lecture on behalf of Department and **Mr. Ashok Khopkar** started the session. Session was conducted for 2 hrs. He managed the program effectively. All faculty members of the Mechanical Engineering Department were present for the session. The lecture was attended by 110 students and was coordinated successfully by **Prof. S. D. Limaye**.



DEPARTMENTAL ACTIVITIES**1. MECHANICAL ENGINEERING STUDENT ASSOCIATIONS (MESA)****MESA 2022-23****(MECHANICAL ENGINEERING STUDENTS ASSOCIATION)****OFFICIAL ORDER**

As Per The Interview Conducted for MESA Committee Membership, Following Candidates have been Appointed for Smooth and Effective Conduction of The MESA's Events for A.Y. 2022-23.

MESA COMMITTEE MEMBERS

SR NO.	DESIGNATION	NAME OF STUDENT	CONTACT NUMBER	CLASS
1	PRESIDENT	ASHLESHA MANISH MANDHARE	9623832819	SYME
2	VICE-PRESIDENT	JADHAV ATHARV RAMDAS	8080450153	SYME
3	SECRETARY	SHETE SAISH AMIT	9028485896	SYME
4	JOINT SECREATORY	KHADE PRANAV RAMDAS	9511610609	SYME
5	TREASURER	HAWALDAR SUMIT SATISH	8605679812	TYME
6	EVENT COORDINATOR	JADHAV YASH UTTAM	7387942086	TYME
7	SOCIAL MEDIA COORDINATOR	JAGDALE ROHAN SANTOSH	9960095353	TYME
8	EVENT PUBLICITY COORDINATOR	BORKAR VAISHNAVI SATISH	9307982886	TYME
9	STUDENT SPORTS COORDINATOR	KONNUR OM SHRIKANT	9960787885	TYME



MESA Chairman – Prof. Shashikant Aghor

MESA Coordinator – Prof. Sachin Surywanshi (8669900048)


MESA Mentor- Prof. Balaji Shinde (8669900051)

2. MESA Guest Lecture

On Behalf of MESA




ZEAL
INSTITUTES
www.zealeducation.com
NARHE | PUNE | INDIA




EXPERT TALK

ZEAL POLYTECHNIC, PUNE
MECHANICAL ENGINEERING DEPARTMENT



Prof. Prasad Kamble
Assistant Professor, Mechanical
Engineering Department,
ZCOER



**MAJOR SIGNIFICANCE OF CAPSTON
PROJECT AND REPORT WRITING**

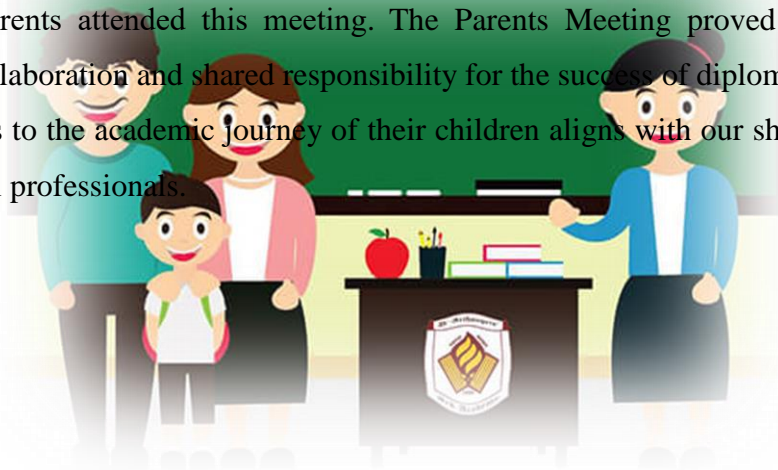
**DATE- 04 December 2022, TIME- 2.00 PM Onwards,
Venue – Mechanical Engineering Department**

The MESA organised a Expert Talk on Major Significance of Capstone Project and report writing on 4th Dec 2022. The significance of a Capstone Project report cannot be overstated, as it represents the culmination of a student's academic journey and demonstrates their comprehensive understanding of the subject matter. Recognizing the paramount importance of effective Capstone Project report writing, our institution was honoured to host a guest lecture on this critical aspect of academic achievement. The guest lecturer, a seasoned professional in the field, shared invaluable insights into the major significance of Capstone Project report writing. Emphasizing the role of the report as a showcase of academic prowess, the speaker highlighted how it provides students with the opportunity to integrate and apply the knowledge gained throughout their academic tenure.

The lecture underscored the importance of clarity, structure, and professionalism in presenting findings and recommendations. Furthermore, the guest speaker shed light on the real-world implications of a well-crafted Capstone Project report. In many instances, these reports serve as tangible evidence of a student's ability to analyze complex issues, propose solutions, and communicate effectively – skills highly coveted in the professional realm. The lecture, therefore, aimed not only to impart technical writing skills but also to instill a sense of pride and confidence in students as they embark on the transition from academia to the workforce. The guest lecture served as a catalyst for students, equipping them with the knowledge and skills needed to produce high-quality Capstone Project reports. By elucidating the major significance of this culminating academic task, the lecture empowered students to approach their projects with a newfound appreciation for the impact and legacy that a well-executed Capstone Project can have on both their academic and professional trajectories.

3. PARENTS MEETING-

The Department of Mechanical Engineering organized the Parents Meeting held on October 15, 2022, aimed to establish a strong partnership between the parents and the faculty, providing a platform for open communication, sharing important updates, and addressing any concerns related to the academic and overall development of diploma engineering students. Objective of the meeting is Result Analysis of UNIT TEST 1, Attendance of Students and Importance of UNIT TEST 2 and Attendance. Parents actively participated in the interactive session, expressing their appreciation for the detailed academic progress report. Several inquiries were made about internship opportunities, skill development programs, and the overall preparedness of students for the industry. Positive feedback was received regarding the school's emphasis on student well-being and the efforts to foster a conducive learning environment.. Parents Meeting hosted by departmental head Prof. Rameshwar Khorane. HOD and Class Teacher interacts with parents. Meeting held at 2.00 pm onwards. More than 100 student's parents attended this meeting. The Parents Meeting proved to be a fruitful endeavor, fostering a sense of collaboration and shared responsibility for the success of diploma engineering students. The commitment of parents to the academic journey of their children aligns with our shared goal of nurturing well-rounded and successful professionals.



4. ISHRAE Guset Lecture



ZEAL POLYTECHNIC, PUNE.
MECHANICAL ENGINEERING DEPARTMENT



Prof. Shivaji Makhnikar
Faculty Advisor,
ISHRAE, ZCOER



**ISHRAE Student Chapter – ISHRAE Student
Member Benefits**

DATE- 22nd Oct. 2022, TIME- 2.00 PM Onwards,
Venue – Mechanical Engineering Department

On October 22, 2022, our institution had the privilege of hosting a transformative guest lecture that centered around the ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers) Student Membership. The event brought together students, faculty, and industry professionals, creating a vibrant space for exploration and enlightenment. The distinguished speaker, an expert in HVAC&R (Heating, Ventilation, Air Conditioning, and Refrigeration), illuminated the numerous advantages and opportunities that the ISHRAE Student Membership holds for aspiring engineers. The lecture commenced with an overview of the dynamic landscape of HVAC&R and the pivotal role that ISHRAE plays in shaping the industry. The speaker emphasized how a student membership with ISHRAE can be a game-changer, providing access to a wealth of resources, industry insights, and a network of professionals passionate about

advancing the field. Attendees gained valuable insights into how the membership could complement their academic journey, offering a bridge between classroom learning and real-world applications.

Moreover, the guest lecture underscored the collaborative and knowledge-sharing culture embedded within ISHRAE. Students were encouraged to actively engage with the organization, participate in events, and leverage the platform to stay abreast of the latest industry trends. The event concluded with an interactive Q&A session, allowing students to seek personalized advice and clarify any queries related to the ISHRAE Student Membership. This enlightening guest lecture not only broadened the horizons of our students but also inspired a greater appreciation for the significance of industry affiliations. It marked a pivotal moment for those aspiring to make a mark in HVAC&R, providing them with the tools, insights, and connections needed to embark on a promising professional journey.



1. Awareness Program- Technical Higher Education-2022- Garvare School

The Mechanical Engineering present a report on the "Awareness Program for SSC Students" organized at Garvare School on [NOVEMBER-2022]. The seminar aims to provide SSC students with valuable insights into the realm of technical higher education, helping them make informed decisions about their academic and career paths to the students appearing for the SSC (Secondary School Certificate) examinations, also importance of technical educations and various scholarship benefits.

SPORTS ACTIVITIES

1. MSBTE WINEER of INSTAR ZONAL (IEDSSA) WEIGHT LIFTING (105 KG) MAHARASHTRA STATE LEVEL COMPETITION 2022-23

ZEAL INSTITUTE
ESTD-1996

ZEAL INSTITUTE
www.zealeducation.com
NARHE | PUNE | INDIA

25
1996-2021

ZEAL POLYTECHNIC, PUNE

Heartiest
Congratulations

MR. ABHAY S. KULKARNI
Student from Third Year Mechanical Engineering
for **WINNER** in **WEIGHTLIFTING (105 Kg.)**
Inter Zonal (IEDSSA)
Maharashtra State Level Competition 2022-23.

1

WEIGHT LIFTING
WINNER

Inter Zonal Tournament
2022-23
Organized By:
Government Polytechnic, Karad

It information about an achievement in the field of weightlifting at the Maharashtra State Level Competition for the academic year 2022-23 organized by MSBTE (Maharashtra State Board of Technical Education) WINEER of INSTAR ZONAL (IEDSSA). Winner is Mr Abhay S Kulkarni, The achievement reflects not only exceptional physical strength and skill in weightlifting but also the dedication, discipline, and hard work required to excel in a competitive sporting environment. Recognition should be extended to the athlete for their outstanding performance, as well as to the coaches, mentors, and the institution for fostering an environment that nurtures sporting talents. Such achievements serve as motivation for other students and contribute to the overall sports culture of the institution. Congratulations on this remarkable accomplishment!

2. MSBTE WINEER of INSTAR ZONAL (IEDSSA) FOOTBALL MAHARASHTRA STATE LEVEL
COMPETITION 2022-23



It information about an achievement in the field of Football at the Maharashtra State Level Competition for the academic year 2022-23 organized by MSBTE (Maharashtra State Board of Technical Education) Runner up- second position of INSTAR ZONAL (IEDSSA). The recipient, either an individual player or a team, demonstrated exceptional skill, teamwork, and sportsmanship in the INSTAR ZONAL (IEDSSA) FOOTBALL competition at the Maharashtra State Level for the academic year 2022-23. Participating and excelling in a state-wide competition is a testament to the dedication, talent, and effort put forth by the athlete or team. This achievement reflects positively on the institution, showcasing a commitment to fostering excellence not only in academics but also in sports. It contributes to the institution's overall sports culture and highlights the importance of a well-rounded education. Once again, congratulations on this remarkable achievement, and may it be the stepping stone to even greater successes in the future!

FACULTY DEVELOPMENT PROGRAMME (FDP)

THREE DAYS FACULTY DEVELOPMENT PROGRAMME ON “ADVANCE TRAINING ON GEOMETRIC DIMENSIONING AND TOLERANCES”



A THREE DAY FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
'ADVANCE TRAINING ON GEOMETRIC DIMENSIONING & TOLERANCE (ATGDT-22)'
(12 DEC 2022 to 14 DEC 2022)
Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

ABOUT COLLEGE

Zeal Education Society was established in 1996 with the vision to offer education with a difference, the expert guidance of Hon. Shri. S.M. Katkar, a distinguished industrialist. ZES hosts eight institutes that provide quality education to students from pre-primary to Ph.D. courses. Zeal Polytechnic started in 2008 and offers Diploma Courses in Mechanical Engineering, Civil Engineering, Computer Engineering, Electronics and Telecommunication Engineering & Electrical Engineering.

Recently, our Founder director has been conferred with the 'Icon of Education' award by Lokmat media group in the presence of Hon. Smt. Smriti Irani, Former HRD Minister, Government of India from Hon. Shri. Vinod Tawde, former Technical Education Minister, Maharashtra State.



ABOUT DEPARTMENT OF MECHANICAL ENGINEERING:

The Department was established as Dnyanganga Polytechnic in 2008. The department aims at offering students with the high quality education clubbed with practical exposure that empowers them with the ability to aid the society by their services in the future. The Department aims at making superior diploma engineering professionals through academic brilliance and excellent education.

VISION

Inculcate foundational and experimental knowledge with entrepreneurial skills that prepares students to succeed in the field of mechanical engineering.

MISSION

1. Enlightening the students with fundamental concepts of mechanical engineering.
2. Providing practical training through upgrading department resources and industry interaction.
3. Inculcating entrepreneurial qualities by arranging co-curricular and extra-curricular activities.
4. Nurturing ethical values among students.

FDP OBJECTIVES

- The main course objectives are:
- Translate geometric callouts into plain English with one meaning.
 - Explain the major rules found in ASME Y14.5-2009.
 - Explain the tolerance zones for the 14 geometric characteristics.
 - Understand the hierarchy of geometric tolerancing.
 - Recognize proper application of GD & T.
 - Calculate geometric tolerances and boundaries.

FDP TOPICS

1. Datum Reference Frames (DRF): This involves specifying a set of reference surfaces (datums) that are used as a basis for dimensioning and tolerancing.





The Mechanical Department organized FDP from December 12 to December 14, 2022; Zeal Polytechnic in Pune hosted a comprehensive and enriching Three Days Faculty Development Program on "**Advanced Training on Geometric Dimensioning and Tolerances.**" The program aimed to enhance the skills and knowledge of faculty members, equipping them with the latest advancements in geometric dimensioning and tolerance (GD&T) techniques. The inaugural day began with an introduction to the significance of GD&T in engineering design and manufacturing processes. Renowned experts in the field led sessions that covered the theoretical foundations of GD&T, its practical applications, and its role in ensuring precision and reliability in product development. The subsequent days delved into advanced topics, including the interpretation of complex geometric symbols, tolerance stack-up analysis, and the implementation of GD&T in computer-aided design (CAD) software. Practical workshops and hands-on exercises allowed faculty members to apply the acquired knowledge, fostering a deeper understanding of the subject matter. The program also facilitated interactive sessions and discussions, providing a platform for participants to share their experiences, challenges, and best practices in teaching GD&T. This collaborative environment encouraged networking among faculty members and promoted the exchange of ideas for improving the quality of education in the field. A noteworthy aspect of the program was the incorporation of case studies and industry-specific examples, demonstrating the practical relevance of GD&T in real-world engineering applications. Participants gained insights into the evolving industry standards and the importance of staying updated in order to effectively prepare students for the challenges of the contemporary engineering

landscape. In conclusion, the Three Days Faculty Development Program on "Advanced Training on Geometric Dimensioning and Tolerances" at Zeal Polytechnic, Pune, held from December 12 to December 14, 2022, was a resounding success. The program not only elevated the expertise of faculty members in GD&T but also fostered a sense of collaboration and knowledge-sharing within the academic community. Zeal Polytechnic's commitment to organizing such initiatives reflects its dedication to providing quality education that aligns with industry requirements, ultimately benefiting both faculty and students in their academic and professional journeys.

INDUSTRIAL VISIT

INDUSTRIAL VISIT TO ACCURATE ENGINEERING COMPANY PVT. LTD., HADAPSAR

The Department of Mechanical Engineering organized on November 14, 2022, an industrial visit for third-year Mechanical Diploma students to Accurate Engineering Company Pvt. Ltd. in Hadapsar. The visit aimed to provide students with practical exposure to manufacturing processes, quality control measures, and the application of theoretical concepts in an industrial setting.

Objectives of the Visit:

1. **Practical Exposure:** Provide students with a firsthand experience of industrial operations in the mechanical engineering domain.
2. **Application of Classroom Knowledge:** Illustrate how theoretical concepts learned in the classroom are applied in real-world manufacturing scenarios.
3. **Quality Control Insights:** Understand the importance of quality control measures in ensuring product reliability.
4. **Industry Best Practices:** Expose students to industry best practices and standards in the mechanical engineering field.

Warm welcomed and introductory session gave by the management of Accurate Engineering Company Pvt. Ltd. Also gave overview of the company's history, mission, and core competencies. After that Jr. Manager guided tour through the manufacturing facility. Students observed all manufacturing process and assembly lines; he gave information about each and every machinery and their role.

The industrial visit provided students with valuable insights into the practical aspects of mechanical engineering in a manufacturing environment. Observations included the efficiency of production processes, the integration of quality control measures, and the adherence to safety standards. The industrial visit to Accurate Engineering Company Pvt. Ltd. was an enriching experience for the third-year Mechanical Diploma students. It successfully bridged the gap between theoretical knowledge and practical application, providing students with a deeper understanding of the complexities of industrial operations in the mechanical engineering sector.



ACADEMIC ACHIEVEMENTS OF STUDENTS**1. Topper List First Year Mechanical Engineering Students 2022- Summer**

Summer 2022	Sem II	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2109880591	JADHAV YASH UTTAM	750	638	85.067	DISTINCTION
		2109880562	CHAVHAN DEEPAK DEVIDAS	750	631	84.133	DISTINCTION
		2109880598	JOSHI JAY VIJAY	750	624	83.2	DISTINCTION

2. Topper List Second Year Mechanical Engineering Students 2022- Summer

Summer 2022	IV SEM	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2009880130	MARGALE SHIVAJI MARUTI	800	626	78.25	DISTINCTION
		2009880168	JADHAV SRUJANKUMAR SATUPPA	800	619	77.375	DISTINCTION
		2009880139	BAGDE KUNAL RAJENDRA	800	606	75.75	DISTINCTION

3. Topper List Third Year Mechanical Engineering Students 2022- Summer

Summer 2022	SEM vi	VI SEM (Summer 2022)					
		Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		1909880389	KALE VAIBHAV DATTA	900	782	86.889	DISTINCTION
		1909880422	AKIM MAHESH SAYAPPA	900	773	85.889	DISTINCTION
		1909880386	KACHI SAMARTH RAHUL	900	748	83.111	DISTINCTION

For More Details,

Zeal Polytechnic, Narhe, Pune- 41.

www.zealpolytechnic.com

admissions.zcoer@zealeducation.com

7558666663 / 7558666664

ZEAL MECHANICAL DEPARTMENT