

NEWSLETTER

SUMMER

2023



ZEAL
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**ZEAL POLYTECHNIC,
PUNE**

Volume No. 3 / Issues 2 /
2022-23



**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. Devidas Pathak

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. D M Pathak
HOD,
M.E. (Design)

NEWSLETTER COMMITTEE

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MR. HAGAWANE SHUBHAM VIKAS

MR. BHALERAO CHINMAY SACHIN

MR. OMKAR JOSHI

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

FACULTY PROFILE

Department of Mechanical Engineering



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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YEAR - 2022-23



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EXPERIENCE - Years

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YEAR - 2022-23



NAME - Mr.Nagmode Rahul Shivram

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EXPERIENCE - 7 Years

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YEAR - 2022-23



NAME - Mr.Jadhav Bhairavnath Ratilal

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EXPERIENCE - 7 Years

SUBJECTS - Thermal, Heat Transfer, Fluid Mechanics

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YEAR - 2022-23

Guest Lecture

1. SIX SIGMA AND QUALITY TOOLS

The Department of Mechanical Engineering organized an Expert Lecture on “SIX SIGMA AND QAULITY TOOLS” on 14th Feb 2023 in the class room Mr. APTE D M, Sigma Counsultant, Kothrud, pune was invited to interact with Third Year Mechanical Engineering students, to create awareness about six sigma and quality of production

The lecture was conducted in the presence of the Head of the Department, Prof. S. G. Aghor, and the Subject Teacher Prof. Ravi Yenkar.

Prof. S. D. Limaye welcomed the guest, give introductory speech and importance of guest lecture on behalf of Department and Mr. APTE D M 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. MANUFACTURING PROCESS AND RAW MATERIAL, THEIR PROPERTIES AND INDUSTRY APPLICATION

The Department of Mechanical Engineering organized an Expert Lecture on “MANUFACTURING PROCESS AND RAW MATERIAL, THEIR PROPERTIES AND INDUSTRY APPLICATION” on 21st Feb 2023 in the class room Mr. D K Mohan, was invited to interact with Third Year Mechanical Engineering students, to create awareness about Manufacturing and process.

The lecture was conducted in the presence of the Head of the Department, Prof. S. G. Aghor, and the Subject Teacher Prof. Amol Chandane.

Prof. S. D. Limaye welcomed the guest, give introductory speech and importance of guest lecture on behalf of Department and Mr. D K Mohan 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.



3. CAREER OPPORTUNITY IN PROCESS PLANT ENGINEERING FOR MECHANICAL ENGINEERING

The Department of Mechanical Engineering organized an Expert Lecture on “CAREER OPPORTUNITY IN PROCESS PLANT ENGINEERING FOR MECHANICAL ENGINEERING” on 3rd April 2023 in the class room Mr. Pramod Deshmukh, Head, dept. of Self developments and learning, Asian Academy Training pvt ltd, pune was invited to interact with Third Year Mechanical Engineering students, to create awareness about various opportunity in process plant.

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. Pramod Deshmukh 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



DEPARTMENTAL ACTIVITIES

1. SHIV JAYANTI -2023



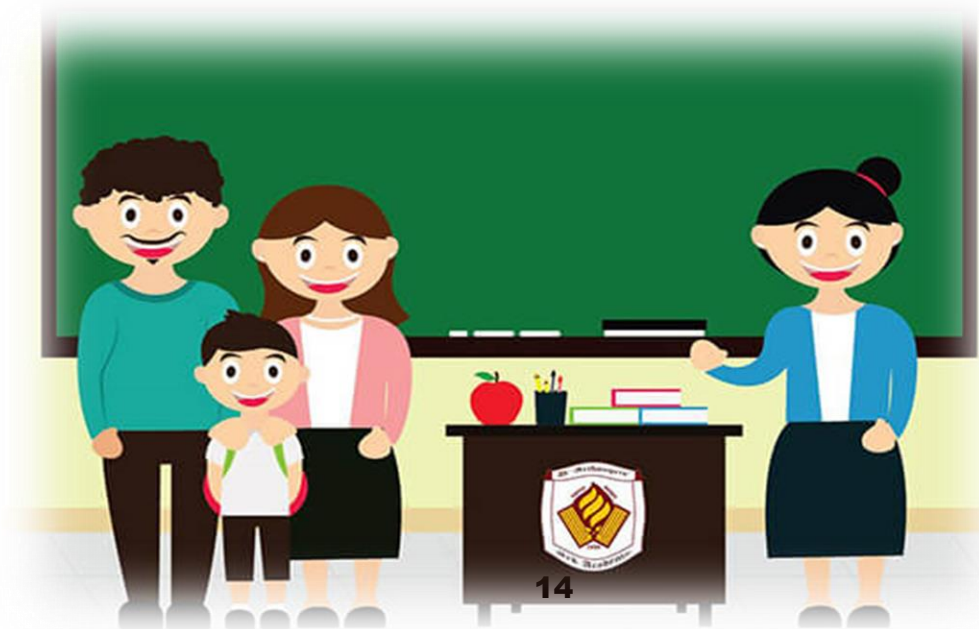
SHIV JAYANTI 2023- SUMMER

The Mechanical Department celebrated Shiv Jayanti. Report writing to provide a comprehensive report on the Shiv Jayanti Celebration held on [19/02/2023] organized by the Mechanical Department students of our esteemed institution. The event aimed not only to commemorate the birth anniversary of the great Maratha warrior, CHHATRAPATI SHIVAJI MAHARAJ, but also to foster a sense of unity, cultural awareness, and patriotism among the students. The Shiv Jayanti celebration was a resounding success, marked by fervent enthusiasm and vibrant displays of cultural pride. The day commenced with a grand procession through the streets, where participants, adorned in traditional attire, recreated scenes from the life of Chhatrapati Shivaji Maharaj. The air resonated with the beats of traditional music, and the streets were lined with spectators, captivated by the colorful spectacle. The statues and portraits of Shivaji Maharaj were beautifully decorated with flowers and lights, reflecting the reverence and admiration for the great Maratha warrior king. Cultural

programs, including traditional dances and folk music performances, added a touch of artistic flair to the festivities, showcasing the rich heritage of Maharashtra. Educational seminars and exhibitions provided insightful glimpses into Shivaji Maharaj's military strategies and administrative prowess, fostering a deeper understanding of his historical significance. The community came together for worship and prayers at Shivaji Maharaj temples, creating a sense of spiritual unity. The day culminated in joyous community feasts, symbolizing the spirit of sharing and solidarity. The hoisting of the Bhagwa flag at public places served as a poignant reminder of the indomitable spirit of the Maratha Empire. Overall, the Shiv Jayanti celebration was a harmonious blend of cultural reverence, historical reflection, and communal joy.

2. PARENTS MEETING-

The Department of Mechanical Engineering organized a Parents Meeting of the semester on 11th March 2023 For all students of FY, SY, TY. 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. Shashikant Aghor. HOD and Class Teacher interacts with parents. Meeting held at 2.00 pm onwards. More than 200 student's parents attended this meeting



INDUSTRIAL VISIT

1. INDUSTRIAL VISIT TO AUTOMOTIVE ML(CAR SERVICE & AMP; REPAIRING CENTER)

The Department of Mechanical Engineering organized the industry visit to the Automotive Manufacturing - Truck Servicing and Repairing Center for the third-year students of the Automobile Department on March 28, 2023. The purpose of the visit was to expose students to the intricacies of truck servicing and repair operations, providing them with practical insights into the maintenance aspect of the automotive industry.

The visit provided students with valuable insights into the specialized world of truck servicing and repair. Observations included the meticulous attention to detail, adherence to safety standards, and the integration of technology in the maintenance processes. Students gained practical knowledge on handling diverse challenges faced in the commercial vehicle servicing sector.

The industry visit highlighted the challenges of maintaining and repairing large commercial vehicles, emphasizing the importance of precision, expertise, and time management. Opportunities for innovation in technology-driven diagnostics and sustainable practices were also evident, showcasing potential growth areas for aspiring professionals.

The industry visit to the Automotive Manufacturing - Truck Servicing and Repairing Centre was a rewarding experience for the third-year students. It provided a bridge between theoretical knowledge and practical application, enhancing their understanding of the complexities involved in maintaining and repairing commercial vehicles. The visit was successfully coordinated by Mr. Balaji Shinde and Mr. Sachin Surywanshi.





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 second-year students of the Mechanical Engineering Department on March 28, 2023. 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. Rahul Nagmode, Mr. Amol Chandane, and Mr. Ravi Yenkar.





3. INDUSTRIAL VISIT TO SHRINATH ENGINEERING WORKS

The Department of Mechanical Engineering organized the industry visit to Shrinath Engineering Works in Nanded City for the first-year students of the Mechanical Engineering Department on April 8, 2023. The primary goal of the visit was to introduce students to practical aspects of mechanical engineering in a manufacturing setting, offering them a glimpse into real-world applications of their academic knowledge.

Mr Ganpat pawar gave student tremendous knowledge about company the visit to Shrinath Engineering Works provided first-year students with valuable insights into the practical applications of mechanical engineering. Observations included the efficient use of machinery, emphasis on safety measures, and the importance of quality control in manufacturing processes.

The industry visit to Shrinath Engineering Works was a foundational experience for the first-year Mechanical Engineering students. It provided them with a tangible connection between classroom learning and real-world applications, setting the stage for their future exploration and understanding of mechanical engineering in a professional context. This visit was successfully coordinated by Mr. Rahul Nagmode and Mr Ravi Yenkar



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" at 8th April 2023 for the students of final year Diploma Students of Mechanical Engineering. This workshop ultimately helps students for understanding complete engine assembly including gearbox, clutch plates and breaking system of two wheeler and four wheeler vehicle.

Mr. Kishor kate, Sr. Facilator at TATA Strive ZCOER Narhe, Pune conducted the workshop. He highlighted all assembly components of 4 stroke petrol Engine which include multiplate clutch assembly, gear box assembly, Carburettor assembly, and drum breaking system. This workshop covers two practical of power Engineering and four practical of Automobile Engineering. The practical are as follows,

1. Assembly and disassembly of 4-stroke engine.
2. Assembly and disassembly of carburettor.
3. Dismantle and assemble of multi plate clutch system.
4. Dismantle and assemble of Gearbox arrangement.
5. Dismantle and assemble of break system and observe the various components

Prof. S. S. Surywanshi and Prof. B P Shinde took efforts to coordinate the workshop smoothly and successfully.



ZEAL INSTITUTE 25th Anniversary
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ZEAL POLYTECHNIC, PUNE
Department of Mechanical Engineering

One day orientation workshop on
AUTOMOTIVE TECHNOLOGY & PRACTICE

For Third Year Diploma Students
in association with
MECHATOL PRODUCT ENGINEERING SOLUTIONS PVT. LTD
AUTO SERVICE TECHNICIAN (NSDC INDIA, YES)

SESSION - 1
08/04/2023
09.00am to 12.00pm

SESSION - 2
08/04/2023
01.00pm to 04.00pm

Mr. Kishor Kate
Tata Strive Certified Trainer
Sr. Facilitator @ Tata STRIVE

For further details contact : 9822345269

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2. WORKSHOP ON ENTREPRENEURSHIP AWARENESS PROGRAMME

On February 18, 2023, a one-day workshop on Entrepreneurship Awareness Programme was organized specifically for Diploma Mechanical Engineering students. Recourse person Ms. Megha Soundankar (Sr. Engineer, Indo German tool room) and Mr. Vikas Bhavsar, CEO Synergy Business development and export, Pune hosted the entire workshop. The workshop aimed to instill an entrepreneurial mind-set among the participants, providing them with insights into the world of entrepreneurship and encouraging them to explore innovative paths in their career. The event was facilitated by Zeal Mechanical Engineering Department.

Diploma Mechanical Engineering students actively participated in the workshop, showing keen interest in the practical applications of entrepreneurship in their field. The feedback received highlighted increased awareness, motivation, and a desire to explore entrepreneurial opportunities in mechanical engineering. The one-day workshop on Entrepreneurship Awareness Programme tailored for Diploma Mechanical Engineering students proved to be successful in achieving its objectives. The event not only introduced students to the world of entrepreneurship but also inspired them to consider innovative paths in their mechanical engineering careers. Workshop was successfully coordinated by Mr. S G Aghor and Mr. Prashant Jadhav

FACULTY DEVELOPEMENT PROGRAMME

THREE DAYS FACULTY DEVELOPMENT POROGRAMME ON “RECENT TRENDS IN MECHANICAL ENGINEERING (RTMI-23)”



A THREE DAY FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
'RECENT TRENDS
IN
MECHANICAL ENGINEERING – 2023 (RTIME-23)
(10 FEB 2023 to 12 FEB 2023)
Organized by
**DEPARTMENT OF
MECHANICAL ENGINEERING**

WHO SHOULD ATTEND

Participation in this FDP is open to the postgraduate students, research scholars, and faculty members of the AICTE approved institutions of Mechanical engineering. It is also open to the Mathematicians, Scientists and Engineers who are working in the R&D organizations, industry and who wish to gain a basic understanding of the concepts involved in Mechanical engineering.

ABOUT COLLEGE:

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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**

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.

OBJECTIVES OF FDP:

The Faculty Development Program (FDP) on "Recent Trends in Mechanical Engineering – 2023 (RTIME-23)" aims to enhance faculty members' knowledge in recent mechanical technology and sustainable design and power engineering. The program focuses on introducing sustainable practices, innovations in materials, energy-efficient techniques, and the integration of smart technologies. It aims to foster interdisciplinary collaboration, provide hands-on workshops, and showcase case studies and best practices. Additionally, the FDP aims to keep faculty updated on regulatory changes and equip them with effective pedagogical strategies for integrating these advancements into academic curricula. The overarching goal is to empower faculty for a comprehensive understanding of contemporary practices in recent trends in Mechanical Engineering.

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.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

1. Graduates will have core competency in diversified areas
2. Graduates will be able to work individually/in team to solve engineering problems
3. Graduates will practice ethical responsibilities and services towards their employers and society
4. Graduates will be able to continue life-long learning

The Mechanical Engineering department organized FDP from February 10 to February 12, 2023, an insightful and forward-looking Three Days Faculty Development Program on "Recent Trends in Mechanical Engineering (RTMI-23)" took place, leaving an indelible mark on the academic landscape. Hosted with precision and foresight, the program was a collaborative effort within the Mechanical Engineering Department, aimed at keeping faculty members abreast of the cutting-edge developments in the field. The inaugural day set the tone with keynote addresses from esteemed experts, delving into a diverse array of contemporary topics. Discussions spanned the realms of smart manufacturing, sustainable engineering, artificial intelligence, and advanced materials science. This interdisciplinary approach offered a

holistic perspective on the multifaceted nature of modern mechanical engineering. Subsequent days featured intensive workshops and hands-on sessions, providing faculty members with practical insights into the application of the presented trends. Engaging discussions and case studies further enhanced the depth of understanding, encouraging participants to explore innovative ways of incorporating these trends into the curriculum. An exceptional feature of RTMI-23 was its emphasis on emerging technologies such as augmented reality, additive manufacturing, and robotics. Faculty members were not only introduced to these technologies but were also equipped with strategies to integrate them effectively, ensuring that students are well-prepared for the dynamic challenges of the industry.



The program fostered a collaborative environment that encouraged networking and knowledge exchange among participants. Faculty members shared best practices, discussed challenges, and collectively explored strategies for adapting the curriculum to stay in sync with the fast-paced changes in the field. In conclusion, the Three Days Faculty Development Program on "Recent Trends in Mechanical Engineering (RTMI-23)" held on February 10-12, 2023, was a resounding success. It not only provided faculty members with a comprehensive understanding of contemporary trends but also empowered them with the tools and knowledge necessary to nurture the next generation of mechanical engineers. The commitment to staying at the forefront of technological advancements showcased by this initiative reflects the forward-thinking ethos of the institution and its dedication to providing quality education aligned with the evolving landscape of mechanical engineering.

TRAINING AND PLACEMENT ACTIVITIES**MECHANICAL ENGINEERING 2022-23 (PLACEMENT SUMMARY)**

SR NO	REF NO	NAME OF THE STUDENT PLACED	ENROLLMENT NO.	NAME OF THE EMPLOYER
1	A1	KAMBLE AMOL DNYANDEV	2009880147	SHIG INDIA PVT.LTD.
2	A2	TAMBOLI MOHD SAAD SALIM	2009880155	BHARAT FORGE LTD.
3	A3	KAMTE HRISHIKESH SANTOSH	2009880248	L&T DEFENCE
4	A4	SABLE SWAPNIL LAHU	2009880286	BG LI IN ELECTRICALS LTD.
5	A5	KHANDAGALE VAIBHAV MAHADEV	2009880218	SETCO SPINDLES INDIA PVT.LTD.
6	A6	AADE ARJUN PRALHAD	2009880247	DIEHL METAL INDIA PVT.LTD
7	A7	MULANI MOSIN SAJID	2109880787	TRIDENTSERVICES PVT,LTD
8	A8	PAKHARE YUVRAJ UMESH	2009880192	DIEHL METAL INDIA PVT.LTD
9	A9	GURAV TANMAY SUNIL	2009880238	OM MANAGEMENT CONSULTANTS

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

Winter 2022	Sem I	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2209880723	TELANG AYUSH SATISH	700	649	92.714	DISTINCTION
		2209880678	MAHADIK MAHESH BABASAHEB	700	629	89.857	DISTINCTION
		2209880721	SUTAR SHUBHAM TUKARAM	700	625	89.286	DISTINCTION

2. Topper List Second Year Mechanical Engineering Students Winter 2022

Winter 2022	Sem III	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2109880591	JADHAV YASH UTTAM	950	821	86.421	DISTINCTION
		2109880562	CHAVHAN DEEPAK DEVIDAS	950	790	83.158	DISTINCTION
		2109880597	JOGLEKAR RUSHIKESH VINAY	950	789	83.053	DISTINCTION

3. Topper List Third Year Mechanical Engineering Students Winter 2022

Winter 2022	V SEM	Enrollment Number	Candidates Name	Total marks	Total marks obtained	percent	Result (Class)
		2009880130	MARGALE SHIVAJI MARUTI	1050	877	83.524	DISTINCTION
		2009880164	POMAN PRAJWAL KIRAN	1050	868	82.667	DISTINCTION
		2009880132	PUJARI AMIT NINGAPPA	1050	861	82	DISTINCTION

For More Details,

Zeal Polytechnic, Narhe, Pune- 41.

www.zealpolytechnic.com

admissions.zcoer@zealeducation.com

7558666663 / 7558666664

ZEAL MECHANICAL DEPARTMENT