



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

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Affiliated to Savitribai Phule Pune University and recognized 2(f) and 12(B) by UGC
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MECHPULSE

A NEWSLETTER BY DEPARTMENT OF MECHANICAL ENGINEERING



Vision

To be recognized as a premier centre in the field of
mechanical engineering education

Mechanical Engineering Department



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EDITOR'S NOTE

Greetings readers!

We are thrilled to present another successful edition of MECHPULSE newsletter, representing the Mechanical Engineering Department. This edition has been a joy to curate, and as editors, we are grateful for the opportunity to collaborate with the bright and enthusiastic minds within the mechanical engineering student community. The dedication, ingenuity, and teamwork showcased by our writing and design teams underscore the collaborative ethos we strive to cultivate within MECHPULSE. Within these pages, you'll find a treasure trove of knowledge, engaging research, and insightful discussions spanning the realm of mechanical engineering. We've also dedicated significant effort to provide valuable insights into the realm of placements, aiming to demystify and assist you in navigating this pivotal process.

Above all, this edition serves as a showcase for the myriad exciting endeavors undertaken by both faculty and students within our department, and we're honored to document and share them with you. We extend our heartfelt congratulations to our writers for their informative and meticulously researched articles, and to our designers for their visually captivating layouts and designs. Special thanks to our head of department, Dr. S. V. Chaitanya, and the entire mechanical engineering department for their unwavering support in bringing MECHPULSE to fruition. We also express our gratitude to our Principal, Dr. D. S. Bormane, whose mentorship and guidance have been instrumental in shaping this edition.

We invite you to delve into MECHPULSE and hope that you find it as enjoyable to read as it was for us to create!

Dr. P. R. Tete, Asst. Prof.,
Mechanical Engineering
AISSMS COE, Pune

EDITORIAL BOARD

Faculty Coordinator:

Dr. S. V. Chaitanya,
Head,
Dept. of Mechanical Engineering

Faculty in charge & Editor:

Dr. P. R. Tete
Assistant Professor
Dept. of Mechanical Engineering

Design and editing team:

Vedant Raut- First Year

Manthan Songirkar- First Year

Vision and Mission

Vision:

To be recognized as a premier centre in the field of mechanical engineering education

Mission:

- ❖ To strive continuously for an advancement of academics and lifelong learning through effective teaching learning process.
- ❖ To strengthen industry-institute interface, association with professional societies to develop leadership, team work and industry oriented attributes through internship.
- ❖ To develop skill based mechanical engineering professionals for sustainable development through project based learning and active research

Principal's Message



Dr. D. S. Bormane

Dear Students and Faculty members,

Greetings from the Principal's Office!

I am glad to announce that with the commencement of the year 2023, AISSMS College of Engineering has completed 31 remarkable years since its establishment.

AISSMS COE as an outcome of academic excellence achieved, is consistently producing University gold medallists and top rankers in different branches of engineering. Faculty is actively involved in research and development. College has number of very high-end analytical, computational and experimental facilities at the disposal of students. As we are in 31st year, we have inclined our focus towards Research Field.

We are going to concentrate more upon the Engineering Research activities and use those for students and society welfare. I feel that the College is in a position to deliver the best theoretical and practical training to the students and offer the best talent to the employers. Due to pandemic situation at end of semester mode of teaching suddenly. This sudden change is adopted by faculty & students with focus on continuous learning through online mode.

I'm delighted to present the latest edition of "MECHPULSE," the Mechanical Department Newsletter. I extend my heartfelt congratulations to the Mechanical Department for their dynamic activities. I wish aspiring students, employers, and all other stakeholders in the Mechanical Department the very best in achieving their goals.

HOD's Message



Dr. S. V. Chaitanya

Dear Students,

A hearty welcome to the Department of Mechanical Engineering at AISSMS College of Engineering, Pune.

The department has well qualified and dedicated faculty. The department strives to Impart knowledge and training of the highest standard. The objective of the department is to prepare students for a successful career in Industry, Research and Academics to meet the needs of growing technology. Our efforts are to develop the ability among students to synthesize data and technical concepts for application to product design. We provide an opportunity for students to work as members of a team on multidisciplinary projects.

I wish to express my gratitude to our faculty, students, and the community for their contributions to a fruitful and constructive 2023. This past year has seen significant accomplishments, and we remain committed to exploring innovative avenues to realize the institute's vision as we anticipate the coming year.

Achievements of Faculty Members

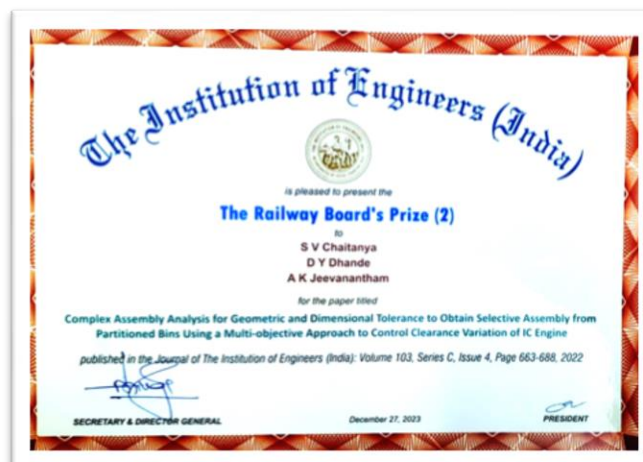
The President of India prize

Dr. M. R. Phate has won the President of India prize by Institution of Engineers for the paper titled “Analysis of Seat to Head Transmissibility of the Seated Human Body using Artificial Neural Network” (published in Series C, Volume 103 Issue 4) at 38th Indian Engineering Congress Jabalpur (MP) on 27 December 2023 by the deputy chief Minister, Madhya Pradesh and Mr. UP Singh, former Secretary to the Government of India.



Railway Board's Prize by Institution of Engineers

Dr. S. V. Chaitanya and Dr. D. Y. Dhande has received the Railway Board's prize by Institution of Engineers for the paper titled “Complex assembly analysis for geometric and dimensional tolerance to obtain selective assembly from partitioned bins using a multi-objective approach to control clearance variation of IC Engine” (published in series c, volume 103 issue 4) at 38th Indian Engineering Congress Jabalpur (MP) on 27 December 2023.



Outstanding Intrapreneurial Team Award

Dr. S. H. Wankhade has received the Outstanding Intrapreneurial Team Award – Higher Education, At The Global Intrapreneurs Summit and Awards Ceremony 2023 On 09/11/2023.



Nurturing the Mother Earth...

Dr. S. R. Patil spearheaded a tree plantation drive at Tukai Tekadi, Baner, on 15th August 2023, emphasizing environmental stewardship. Not only did he organize the event, but he also personally tends to the plants, ensuring they receive proper care and attention for their healthy growth. His passion for greening initiatives underscores his commitment to creating a more sustainable and eco-friendly environment for the community.

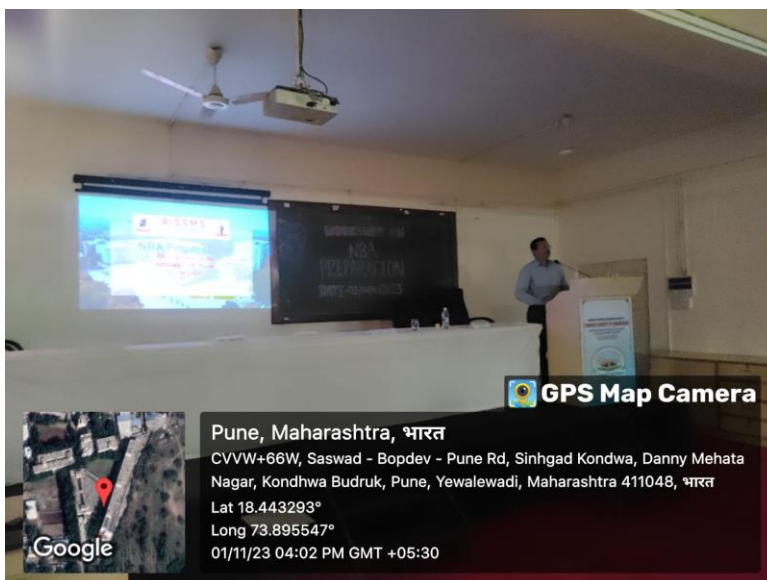


Dr. D. Y. Dhande

Working as a Project Leader for the international research project entitled, “Development of Environmental Friendly Corrosion fouling inhibitors for Marine applications”, under research collaboration agreement with [UMT, Malaysia](#), [UKM Malaysia](#) and [Rivers state university, Nigeria](#).

“NBA Awareness session”

Dr. C. S. Choudhari has taken the initiative to organize an "NBA Awareness session" for Mechanical Engineering Department students, highlighting the significance of accreditation by the National Board of Accreditation (NBA). Through this activity, students gain valuable insights into the importance of NBA accreditation in ensuring the quality and standards of engineering education, empowering them with knowledge to excel in their academic and professional pursuits.



Student Achievements

UNIVERSITY TOPPERS

BE MECHANICAL (APR/MAY 2023)

Rank	Student Name	Marks	Class
1	Rane Mohit Umesh	9.8	First Class With Distinction
8	Lot Tejas Harish	9.575	First Class With Distinction

BE MECHANICAL SANDWICH (APR/MAY 2023)

Rank	Student Name	Marks	Class
1	Pattanshetti Siddharth Sheetal	9.7	First Class with Distinction
2	Khanshe Aditya Santosh	9.675	First Class With Distinction
3	Kale Chaitanya Prasad	9.6	First Class With Distinction
3	Pawar Aniruddha Jitendra	9.6	First Class With Distinction
3	Thorat Prathamesh Satish	9.6	First Class With Distinction
4	Vedant Chitte	9.575	First Class With Distinction
4	Karandikar Shreya Shailesh	9.575	First Class With Distinction
5	Upadhye Mrunal Sheetal	9.525	First Class With Distinction
6	Thuse Varad Amod	9.5	First Class With Distinction
6	Prajapati Girish Laxman	9.5	First Class With Distinction
7	Kharade Yash Uttam	9.45	First Class With Distinction
9	Karande Atharva Abhijeet	9.4	First Class With Distinction
10	Kulkarni Shrungal Abhijeet	9.375	First Class With Distinction
10	Aher Adinath Subhash	9.375	First Class With Distinction

RESONANCE RACING REEV

Faculty Advisor: Dr. A. V. Waghmare

The students of Mechanical Engineering Department have participated in REEV VIRTUALS competition 2023-24 at TVS IQL. They secure 1st rank and winner position in this virtual competition.

AIR 1 Overall Rank



SAEISS DRONE DEVELOPMENT CHALLENGE 2023

Faculty Advisor: Dr. D. Y. Dhande

Students had participated in SAEISS DRONE DEVELOPMENT CHALLENGE 2023 and secured 2nd rank in Best Aerodynamic Analysis (CFD) Awards. The competition is intended to provide Bachelor/Master/Diploma students with a real-life autonomous drone development challenge.



Abhishek Jadhav, student of BE Mechanical had participated in Smart India Hackathon 2023 competition. Smart India Hackathon 2023 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.



Prasad Mane, student of BE Mechanical had participated in Technoxian World Robotics Championship 2023 competition.



CERTIFICATE / ONLINE COURSES COMPLETED BY STUDENTS

S N	Name of Student	Title of the Course	Conducted By	Duration/ Dates
1	NVSS Lakshmiprasanna	"ENERGY LITERACY TRAINING"	Swaraj Foundation	31/8/2023
2	Rutik Sukale	SOLIDWORKS: Advanced Simulation	LinkedIn	29/9/2023
3	Rutik Sukale	SOLIDWORKS: Advanced Simulation	LinkedIn	29/9/2023

Training and Placement Corner

Dear Students,

Congratulations on your remarkable achievement! We have every confidence that you will make significant contributions to your respective fields and bring pride to our institution. Wishing you continued success and fulfillment in all your future endeavors.

Sr No	Name Of Student	Name of Organization	Package
1	Akash Dipak Kakade	Fleetguard Filters	4.50 LPA
2	Aashish Shashikant Mahale	Cognizant	4.00 LPA
3	Amey Gandhi	Fleetguard Filters	4.50 LPA
4	Aryan Deshpande	Siemens	4.50 LPA
5	Atharav Abhijeet Karande	L&T Infotech	4.00 LPA
6	Atharva Naik	Premium Transmission	4.00 LPA
7	Atharva Pravin Pakhode	Cognizant	4.00 LPA
8	Dnyaneshwar Babasaheb Thombre	Premium Transmission	4.00 LPA
9	Durgesh Rajendra Nankar	L&T Infotech	6.50 LPA
10	Gaurav Thakkar	Alten	3.50 LPA
11	Girish Kamble	Thermax	3.50 LPA
12	Kshitij Kishor Modhe	Cognizant	4.00 LPA
13	Kshitij Modhe	DeltaX	8.50 LPA
14	Madhura Gulwani	Fleetguard Filters	4.50 LPA
15	Nikita Bhamre	Neilsoft	3.00 LPA
16	Om Bayas	Bristlecone	4.50 LPA
17	Omkar Pralhad Landge	Cognizant	4.00 LPA
18	Parag Dhamne	Praj Industries	4.50 LPA
19	Parag Rajendra Dhamne	Pinclick	4.80 LPA
20	Parth Jivaraj Khedekar	Cognizant	4.00 LPA
21	Pritam Taksal	Thermax	3.50 LPA
22	Ranjit Kharat	Tata Consultancy Services	3.36 LPA

23	Rohit Sorate	M3 Technologies	2.40 LPA
24	Sanyogini Mohite	Fleetguard Filters	4.50 LPA
25	Siddharth Shitole	Tata Consultancy Services	3.36 LPA
26	Srushti Shinde	Fleetguard Filters	4.50 LPA
27	Tanaya Pradeep Jagtap	Cognizant	4.00 LPA
28	Tanvi Jayprakash Gavhane	Cognizant	4.00 LPA
29	Tejas Lot	Godrej & Boyce	6.50 LPA
30	Vikky Kale	Tata Consultancy Services	3.36 LPA
31	Vishvajeet Ghatage	Twin Engineers	3.00 LPA
32	Vrunda Parmeshwar Mane	Cognizant	4.00 LPA
33	Yogesh Dinesh Nawde	Siemens	4.50 LPA
34	Anushka Kulkarni	Fleetguard Filters	4.50 LPA
35	Suyash Pawar	SwiftPLM	4.50 LPA
36	Kundan Ghorpade	I-DESIGN	3.60 LPA
37	Pratul Mulik	RLE International	3.50 LPA
38	Ganesh Khandalkar	Helical Auto Technology India Pvt Ltd	3.00 LPA
39	Shivam Yewale	RLE International	3.50 LPA
40	Archit Kale	Godrej & Boyce	6.50 LPA
41	Dhiraj Rajesh Shinde	Premium Transmission	4.00 LPA
42	Divya Mahendra Dhamal	Premium Transmission	4.00 LPA
43	Lakshmi Bakshi	Linde Engineering	5.00 LPA
44	Omkar Sharad Dalvi	Premium Transmission	4.00 LPA
45	Prashant Vaijnath Surwase	Premium Transmission	4.00 LPA
46	Raj Nishandar	Fleetguard Filters	4.50 LPA
47	Sanskar Sunil Fursule	Premium Transmission	4.00 LPA
48	Sayali Santosh Koli	Cognizant	4.00 LPA
49	Utkarsh Anil Ekatpure	Premium Transmission	4.00 LPA
50	Vedant Aher	Thermax	3.50 LPA
51	Vedant Rameshrao Godbole	Premium Transmission	4.00 LPA
52	Vinaya Arun Gholap	Premium Transmission	4.00 LPA
53	Vishwajit Janba Pawar	Premium Transmission	4.00 LPA

Department Activities

FDP/STTP ATTENDED BY THE DEPARTMENT FACULTY

S N	Name of Faculty	Title of the FDP/STTP	Organized by	Duration/ Dates
1.	Dr D Y Dhande	FDP on Induction Training	NITTR, Kolkata	18-29 Sept 2023
2.	Ms. P. R. Tete	One Week National Level Faculty Development Program on "Recent Advances in Mechanical Engineering (RAME-23)"	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	24th to 28th July 2023
3	Mr. Y. P. Patil	One Week National Level Faculty Development Program on "Recent Advances in Mechanical Engineering (RAME-23)"	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	24th to 28th July 2023
4	(Dr) M M Sayyad	One Week National Level Faculty Development Program on "Recent Advances in Mechanical Engineering (RAME-23)"	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	24th to 28th July 2023
5	(Dr) M M Sayyad	Five days online faculty development program on COMPUTER AIDED ENGINEERING ANALYSIS USING ANSYS	Vishwakarma Institute of Information Technology	17th to 21st July 2023
6	(Dr) M M Sayyad	One - week Short Term Training Program on "Ancient Indian Knowledge for Motivation and Spiritual Health	D Y Patil College of Engineering, Pune	26th to 30th Dec 2023
7	(Dr) M M Sayyad	Three-day Online Faculty Development program on "Advanced Trends in Mechanical Engineering"	Department of Mechanical Engineering, Ashokrao Mane Polytechnic, Vathar	27th December to 29th December 2023
8	Dr M R Dahake	ATAL FDP on Exploring Perspective of AI & ML in Mechanical Engineering	KKWIOEER	29th November 2023 to 3rd December 2023
9	Dr P S Gajjal	ATAL FDP on Exploring Perspective of AI & ML in	KKWIOEER	29th November

		Mechanical Engineering		2023 to 3rd December 2023
10	Dr. S. R. Patil	National Level One Week Faculty Development Program (FDP) on "Recent Advances and Challenges in Electric Vehicles"	KJ's Educational Institute K J College of Engineering and Management Research, Pune	21 August 2023 to 25 August 2023
11	N N Gotkhindikar	FDP on Fundamentals of additive manufacturing	NPTEL	1.5 Weeks
12	Dr. M. R Phate	One week National Level FDP on "Recent Advances in Mechanical Engineering" RAME-2023	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune - 411 018.	24/07/2023 to 28/07/2023
13	Dr D S Malwad	One week FDP on Computer Aided Engineering Analysis Using Ansys	Vishwakarma Institute of Information Technology, Pune	From 17th to 21st July 2023
14	Dr D S Malwad	One week FDP on Recent Advances in Mechanical Engineering (RAME-23)	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	From 24th to 28th July 2023
15	M U Gan	One Week National Level Interdisciplinary Short Term Training Program on "Exploring Quality Research and its Societal Impact" October 09-13, 2023	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune.	October 09-13, 2023
16	M P Shah	Faculty Development Programme Machine Learning Application for Mechanical Engineers	CVR College of Engineering	(18th December to 23rd December, 2023)
17	A T Thombare	Faculty Development Programme Machine	CVR College of Engineering	(18th December to 23rd

		Learning Application for Mechanical Engineers		December, 2023)
18	A T Thombar	Faculty Development Programme Soft Skill Development	NPTEL	July to Sep 2023
19	Dr. M. S. Deshmukh	"Recent Advancement & Development in Renewable Energy Technologies"	Sinhgad College of Engineering, wadgaon, Pune	08 th January – 13 th January 2024
20	Dr. M. S. Deshmukh	Outcome based Education and NBA Process	A G Patil Institute of Technology	28th to 30th Dec. 2023
21	Dr. M. S. Deshmukh	Innovative and Creative Approaches for teaching and Research	ISTE	16/01/2024 to 20/01/2024
22	Prof. G. P. Lohar	Faculty Development Program on SOLIDWORKS 2024 & 3DEXPERIENCE Hands on Workshop on FEA / CFD / MBD (Kinematics) / Solid Modeling As per SPPU Course Curriculum	Pune Vidyathi Griha's College of Engineering and Technology & G. K. Pate (Wani) Institute of Management	19th Jan24 to 23 Jan 24
23	O.A.More	One Week National Level Faculty Development Program on "Recent Advances in Mechanical Engineering (RAME-23)"	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune	24th to 28th July 2023
24	V R Patil	Faculty Development Program on Sustainable Energy Technology	NPTEL	July 23 to October 23
25	P V Deshmukh	Advancements & Application in Artificial Intelligence and Machine Learning	Smt. Kashibai Navale College of Engineering, Pune, Maharashtra.	04.09.2023 to 08.09.2023

SEMINARS/ WORKSHOPS/ WEBINARS ATTENDED BY THE DEPARTMENT FACULTY

S N	Name of Faculty	Title of the Seminar/Webinar	Organized By	Duration/ Dates
1	Dr B D Bachchhav	One day workshop on “Additive Manufacturing”	CMET, Pune	21 July 2023
2.	Dr D Y Dhande	One day IPR awareness program	IPR Office, India	30 August 2023
3.	Ms. P. R. Tete	One day Intellectual Property Awareness program	Intellectual Property Office, India	30 August, 2023
4	Mr. Y. P. Patil	One day Intellectual Property Awareness program	Intellectual Property Office, India	30 August, 2023
5	(Dr) M M Sayyad	IP Awareness/Training program under	NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION	August 30,2023
6	N N Gotkhindikar	One day Intellectual Property Awareness program	Intellectual Property Office, India	30 August, 2023
7	S A Ansari	One day NPTEL E-Awareness workshop	IIT Madras	July 27, 2023
8	S A Ansari	One week STTP/FDP on RTHVAR	MMCOE Pune	26-30 December 2023
9	S A Ansari	One Week Faculty Development Program (Hybrid Mode) on “Unlocking Innovation: Exploring Research, Innovation and Patents (UIERIP-2023)”	SVERI’s College of Engineering, Pandharpur	from 17th July to 22nd July, 2023
10	S A Ansari	One Week National Level Faculty Development Program on “Recent Advances in Mechanical Engineering (RAME-23)”	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune.	24th to 28th July 2023,

CONFERENCES/ SYMPOSIUMS ATTENDED BY THE DEPARTMENT FACULTY

S N	Name of Faculty	Title of the Conference / Symposium	Organized By	Duration/ Dates
1	Dr. M. R. Phate	International Conference of Sustainable and Futuristic Technologies 2023	MMCOE, Pune	14 December to 15 December, 2023
2.	Dr. M. S. Deshmukh	International Conferences of Advances in Mechanical Engineering (ICAME-23)	GHRCE, Nagpur	22nd and 23rd Dec 2023

ONLINE COURSES / CERTIFICATE COURSES COMPLETED BY DEPARTMENT FACULTY

S N	Name of Faculty	Title of the Course	Conducted By	Duration/ Dates
1.	Dr D Y Dhande	Accreditation and Outcome Based Education	IIT, Madras (NPTEL)	21 August - 10 October 2023 (8 Weeks)
3.	Dr M R Dahake	Patent Drafting for Beginners	IIT Madras (NPTEL)	24 July 2023- 18 Aug 2023 (4 weeks)
4	Dr M R Dahake	Stress Management	IIT (NPTEL)	Aug 2023-Sep 2023
5	Dr P S Gajjal	Patent Drafting for Beginners	IIT Madras (NPTEL)	24 July 2023- 18 Aug 2023 (4 weeks)
6	Dr P S Gajjal	Stress Management	IIT (NPTEL)	Aug 2023-Sep 2023
4	Dr M M Sayyad	Building Materials And Composites	IIT Roorkee	8 weeks
5	Dr M M Sayyad	Ansys Track Completion: Foundations in Linear Dynamics of Structures	Ansys	4 weeks
6	Ms. P. R. Tete	Selection of Nanomaterials for Energy Harvesting and Storage Application	IIT Roorkee (NPTEL)	Jul-Aug 2023 (4 week course)

7	Ms. P. R. Tete	Stress Management	IIT Kharagpur (NPTEL)	Aug-Sep 2023 (4 week course)
8	N N Gotkhindikar	Fundamentals of additive manufacturing	IIT Guwahati NPTEL	12 Weeks July-Nov
9	Dr D S Malwad	National Education Policy 2020: Professional Development Programme	IGNOU NPTEL Certification	From December 1-31, 2023 (4 Weeks)
10	M P Shah	NPTEL course on “Rapid Manufacturing”	NPTEL, IIT-Madras	July-October 2023
11	M P Shah	MATHWORKS online course on Optimization Onramp	MATHWORKS	30 June 2023
12	O.A.More	NPTEL-AICTE FDP on “Metal Additive Manufacturing”	NPTEL, IIT-Madras	From July -Oct 2023(12 week)
13	V R Patil	NPTEL course on “Sustainable Energy Technology”	NPTEL,IIT Madras	July 23 to October 23(12 Weeks)
14	SA Ansari	NPTEL course on “Selection of Nanomaterials for Energy Harvesting and Storage Application”	IIT Madras	Jul-Aug 2023

EXTENSION LECTURES/WEBINARS (LECTURES ORGANIZED ON OTHER THAN TECHNICAL TOPICS)

S N	Name of faculty coordinator	Topic	Name and contact details of guest	Date	Number of beneficiaries
1	Dr P S Gajjal Dr C S Choudhari	Gender Equality	Dr Lalita Kangude	02/11/23	85
2	Dr P S Gajjal Dr C S Choudhari	Personality Development and Menstrual Hygiene	Harshita Raman	26/09/23	132

FACULTY SERVED AS RESOURCE PERSON, EXPERT, CHAIRPERSON

S N	Name of Faculty	Title of Activity	Organizing body	Date
1.	Dr C S Choudhari	Conducted session on “NBA Preparations” at Sinhgad Academy of Engineering, Kondhwa, Pune on 01/11/2023	Sinhgad Academy of Engineering, Kondhwa, Pune	01/11/2023
2.	Dr C S Choudhari	Conducted session on “Awareness of NEP 2020 for students” Ajeenkya DY Patil School of Engineering Pune on 28/07/2023	Ajeenkya DY Patil School of Engineering Pune	28/07/2023
3.	Dr C S Choudhari	Worked as a session chair for “International Conference on Convergence in Technology 2023”	Dr D Y Patil Institute of Technology, Pimpri, Pune	8 and 8th Sept 2023
4.	Dr B D Bachchhav	Conducted session on “NBA Preparations” at Sinhgad Academy of Engineering, Kondhwa, Pune on 01/11/2023	Sinhgad Academy of Engineering, Kondhwa, Pune	01/11/2023
5.	Dr C S Choudhari	Delivered session on “Energy Conservation in Thermal Utilities” for students	AISSMS Poly Pune	10/10/2023
6.	(Dr) M M Sayyad	Reviewer in GT 2023 ASME India Conference	ASME India	27 June 2023
7.	(Dr) M M Sayyad	Reviewer of Journal of The Institution of Engineers (India): Series C (IEIC)	The Institution of Engineers	5 Nov 2023
8.	Dr. M R Phate	Expert talk on “Outcome Based Education in Teaching & Learning”	MMIT, Lohagaon, Pune	16/12/2023
9.	P V Deshmukh	Conducted session on “NBA Preparations” at Sinhgad Academy of Engineering, Kondhwa, Pune on 01/11/2023	Sinhgad Academy of Engineering, Kondhwa, Pune	01/11/2023

FDP/STTP ORGANIZED BY THE DEPARTMENT

S N	Name of faculty coordinator	Title of the FDP/STTP/WS/Seminar/Symposium	Duration/ Dates	No. of Participants	Funding Agency (If any) and Amount (Rs.)
1.	Dr. D Y Dhande	Research Project Competition: Avishkar 2023	27/10/2023	650	IQAC, SSPU, Pune , 1 Lac.

SEMINARS/ WORKSHOPS/ WEBINARS ORGANIZED BY THE DEPARTMENT

S N	Name of Coordinators	Title of the Seminar/Webinar	Duration / Dates	No. of Participants	Funding Agency (If any) and Amount (Rs.)
1	Dr M R Dahake Dr P S Gajjal	One Day Workshop on Intellectual Property Rights	23/08/2023	161	AISSMSCOE Pune
2	Dr. S. V. Chaitanya Ms. P. R. Tete	Quality and Drawing	28th August 2023	53	AISSMSCOE Pune
2	Dr. B. D. Bachchhav Ms. P. R. Tete	CNC Programming	29th August 2023	50	AISSMSCOE Pune
3	Dr.A.V Waghmare Dr.M.S Deshmukh Mr SA Ansari	Mis-Concepts in Psychrometrics	06 Oct. 2023	70	AISSMS COE Pune

EXTENSION ACTIVITIES CONDUCTED BY THE DEPARTMENT

S N	Name of Faculty Coordinator	Details of activity conducted	Date	Number of beneficiaries
1	Dr C S Choudhari, Mr S A Ansari	National level online quiz on “Innovation and Start Up”	4 Sept to 18 Sept 2023	80
2	Prof. P M Warke Prof M P Shah	Seminar on “Awareness of BIS activities in engineering college” organized by Standards’ club (BIS), AISSMSCOE, Pune.	August 21, 2023	38
3	Prof. P M Warke Prof M P Shah	Competition on “PRESENTATION ON STANDARDS” by Standards’ Club (BIS), AISSMSCOE	October 18, 2023,	44
4	A T Thombare	Engineering Today	14th and 15th September 2023	409

RESEARCH CONTRIBUTION

FUNDED RESEARCH PROJECT

S N	Principal Investigator	Title of the Project	Amount Received (Rs)	Funding Agency
1	Dr. B D Bachchhav	Modernization of Tribology Laboratory for Performance Evaluation of Nano/Bio Lubricants	17,18,500/- Ongoing	AICTE
2	Dr. M. S. Deshmukh	Performance assessment of VCC based Air water generator using flat plate type Evaporator.	5,01,950 /- ongoing	4645/GEH- Research/policy- 1/1021- 24/2021/IN-85

PATENTS, COPYRIGHT, TRADEMARK AND OTHER (IPR)

S N	Name of Faculty	Name of the Patent	Patent Number and Date	Type (National/ International/ Commercialized)
1	Ms. P. R. Tete	A System for cooling of battery cells	Patent 202121028817 03/11/2023	National (Granted)
2	Dr D S Malwad	System To Heat A Fluid Using Solar Energy	Patent 201921 049373 02/12/20 19	National (Granted)
3	SA Ansari	A system and method for investigation on performance cooling parts for an internal combustion engine	Patent 202321067013 A 24/11/2023	National (Granted)
4	N N Gotkhindikar	Analysis of FDM based additive manufacturing process through optimized deep learning strategy.	Copyright 14/12/23	Published
5	P V Deshmukh	Performance analysis of bioinspired multiblade centrifugal fan using numerical and experimental approach	Copyright 28/12/2023	Published

PAPERS PUBLISHED/ PRESENTED IN PROCEEDINGS OF CONFERENCES

S N	Authors	Document Details	Conference Details	Organized by
1	(Dr) M M Sayyad	Development Techniques for Energy Efficient Electric Motors – A Review	ICOGE 2023	AISSMS CoE, Pune
2	Dr M R Dahake Dr P S Gajjal	Experimental Investigation of Performance And Emissions Of Single Cylinder Diesel Engine using HHO and BioDiesel Blends	SAIT 2023	Northcap University
3	N N Gotkhindikar	Optimization of Mechanical Properties of In-Situ Aluminum Matrix Composites by Hybrid Process	ICOGE 2023	AISSMS CoE, Pune
4	N N Gotkhindikar	Rapid Anomaly Detection for Optimization of Wind Turbine Operating Behavior using ML	ICOGE 2023	AISSMS CoE, Pune
4	Dr D S Malwad	Thermal Performance Analysis of Serpentine Tube Flat Plate Collector Used for Effluent Treatment	COGE 2023	AISSMS CoE, Pune
5.	Dr. M. S. Deshmukh	Study on Oxidative Stability of Ghee (Butter Oil) Extracted from Beet (Betavugaris) Peels to Increase the Oxidative Stability of Ghee (Butter Oil)	International Conference on “Advances in Mechanical Engineering-2023”	GHRCE, Nagpur
6	SA Ansari	Experimental analysis of LHTESS using PCM	ICFMEM202	Palavan College of engineering

PAPERS PUBLISHED IN JOURNALS

SN	Authors	Document Details	Source Details	Publisher
1	Bachchhav, B.D.	Tribo-mechanical characterization of Cu-Cr-Zr ternary alloy aimed at fin-tube resistance welding electrode material	Industrial Lubrication and Tribology, Vol. 75 No. 8, pp. 942-949	Emerald International
2	Bachchhav, B. D.	Prediction of Thrust Force and Torque for High-Speed Drilling of AL6061 with TMPTO-Based Bio-Lubricants Using Machine Learning.	Lubricants 2023, 11, 356.	MDPI
3	Bachchhav, B.D.; Chaitanya, S.V.	“Wear Performance of Cu–Cd, Cu–Be and Cu–Cr–Zr Spot Welding Electrode Materials”.	Lubricants 2023, 11, 291, pp. 1-15.	MDPI
4	Bhanudas Bachchhav, Yash Anecha, Balraj Waghmare.,	Tribological Performance Evaluation of TMPTO based Nano-Lubricants”.	<i>Journal of Manufacturing Engineering</i> , Vol. 18, Issue 3, pp. 091-095	Society of Manufacturing Engineering
5	Bhanudas Bachchhav	“Selection of spot welding electrode material by AHP, TOPSIS, and SAW”	Materials Today: Proceedings,	Elsevier
6.	D. Y. Dhande,	And Zno Encapsulated Hollow Silica In The Photocatalytic Degradation Of Dimethylarsinic ACID	RASAYAN Journal of Chemistry, Vol.16, No.3, 2023	Rasayan Journal of Chemistry
7.	Dhande DY* Navale SJ, Gaikwad DP Patil SR Nalawade RD Wadkar DV	Prediction of Abrasive Wear behavior of the Poly-Tetra-Fluoroethylene material using Adaptive Neuro Fuzzy Interface Systems	Jurnal Tribologi, vol.38, pg.141-158	Malaysian Tribology Society (MYTRIBOS)
8.	D.Y. Dhande	Piper betle extract as an eco-friendly corrosion inhibitor for aluminium alloy in hydrochloric acid media	Int. J. Corros. Scale Inhib., 2023, 12, no. 3, 948-960	Russian Association of Corrosion Engineers

9	Mannan Sayyad	Evaluation of Inter-laminar Shear Performance of Carbon Fibre-reinforced Composite under Quasi-static and High Strain-rate Loading	Journal of Materials Engineering and Performance	ASM International
10	Dr P S Gajjal Dr M R Dahake	An Intelligent Tribological Texture Behavior Analysis and Optimization of Air Bearing	International Journal of Engineering Bio and Tribo Corrosion Vol 9 No72 pp 1-13	Springer
11	Dr P S Gajjal Dr M R Dahake	A Novel Optimized Dielectric Fluid Electric Discharge Machine Using African Buffalo Optimization	International Journal on Interactive Design and Manufacturing	Springer
12	Dr M R Dahake Dr P S Gajjal	Experimental Exploration of Hydrogen Fuelled Dual Fuelled CRDI equipped Diesel Engine Coupled With Exhaust Gas Recirculation Using ANN Approach	International Journal of Ambient Energy Vol 45 No 1 pp 1-11.	Taylor & Francis
13	Dr M R Dhake	CFD analysis of 210 MW Boilers Economiser For Detection Area Causes of Tube Failure	International Journal of Power and Energy Systems	ACTA Press
14	Ms. P. R. Tete	A comparative study of novel designs of liquid-cooled battery thermal management systems	Transportation Research Procedia	Elsevier
15	N N Gotkhindikar et al.	Optimized deep neural network strategy for best parametric selection in fused deposition modelling	International Journal on Interactive Design and Manufacturing (IJIDeM)	Springer

16	Dr. M R Phate	Design, Development and Performance Analysis of Portable Solar Scheffler Reflector Water Heater (SRWH)	Inderscience, Int. J. of Computer Applications in Technology.	Inderscience (WoS)
17	D Y Dhande, D P Gaikwad, C S Choudhari	Application of rule learner classifier for studying bioethanol fueled spark ignition engine out emissions and classification	ASEAN Journal on science and technology for development	Scopus
18	D Y Dhande , C S Choudhari, D P Gaikwad, Kiran B. Dahe	Development of Artificial Neural Network to predict performance of Spark Ignition Engine fuelled with waste pomegranate ethanol blends	Information Processing in Agriculture (Elsevier)	Scopus
19	S C Choudhari, C S Choudhari	Education in human rights at school level: Role and perspectives of teacher	Education and Society	UGC Care Listed
20	Dnyaneshwar S. Malwad	A Review on Recent Advancements in Indirect Solar Drying of Agricultural Products	Journal of Renewable Energy and Environment	Scopus Indexed

BOOK / ARTICLE PUBLICATIONS

SN	Author	Title of the Book	Published by	ISBN	Year
1	Dr. M R Phate	Critical Analysis of Noise Reduction for Motorcycle Exhaust System	LAMBERT	978-620-6-79291-8	2023
2	Dr B D Bachchhav	Quality & Reliability Engineering	Techknowledge Publications	NA	2023
3	Dr. M. S. Deshmukh	Mechanical Alloying of Ferrous and Non-ferrous Alloys: Processing, Applications, and Properties	ELSA,	eBook ISBN: 9780443161520	2024

STUDENTS' CHAPTERS/CLUBS

- Aero Design Club (Garudashwa)
- Society of Automotive engineers, SAE
- Indian Society of Heating Refrigeration and Air Conditioning Engineers, ISHRAE
- Institute of Engineers (India), IEI
- TRIZ Student Chapter
- Institute of Mechanical Engineers, IMechE

INDUSTRY VISITS ORGANIZED

Industrial Visit to Balgandharv Rangmandir to Study Central Air-Conditioning

On October 16, 2023, students from the BE Mechanical Engineering A and B Divisions participated in a field visit to Balgandharv Rangmandir. The primary objective of the visit was to gain practical knowledge about Central Air Conditioning systems. The visit was highly educational and informative, providing insights into the central air conditioning system used for the auditorium with a capacity of 1000 people.



Industrial Visit to PRIHODA INDIA Private Limited

On October 19, 2023, students from the BE Mechanical Engineering program, A & B Division, had the privilege of participating in an Industrial Visit to Prihoda India Pvt Ltd. Chakan. The visit aimed to provide students with valuable insights into the practical applications of mechanical engineering concepts and to gain a deeper understanding of Prihoda's tailor-made fabric ducting solutions.



Industrial Visit to Emerson Climate Technologies Pvt Ltd Pune

The industrial visit to Emerson was organized by Dr. A V Waghmare on 19th October, 2023 for Final year engineering students. It was a comprehensive and educational experience for our engineering students. The visit covered various aspects of Emerson's operations, including product assembly, testing, and maintenance. The purpose of the visit was to gain practical insights into the company's operations and products.



Industrial Visit to Lashkar Water Supply Department PMC Pune

An Industrial Visit to Lashkar Water Supply Department PMC Pune for BE Mechanical Engineering students was organized by Prof. M. U. Gan and Prof. S. A. Ansari on 27th October, 2023.



Industrial Visit to MAHA Metro Pune

Industrial Visit of Third Year Mechanical Engineering students was organized for Mechatronics subject by Prof. Yogita Funde on 27th October, 2023 in which students were able to see various operating processes that actual happens in MAHA METRO Pune. Students are able to see the dashboard and its control parameter to operate and control the METRO.



Industrial Visit to Katraj Dairy

Industrial Visit of Second Year Mechanical Engineering students was organized by Prof. V. R. Patil on 8th November, 2023. The Aim of the Industrial Visit was to acquaint the students with the process and working of boiler working in the industry.



BE MECHANICAL SANDWICH STUDENTS INDUSTRIAL INTERNSHIP

SN	Name Of Student	Industry	SN	Name Of Student	Industry
1	Agrawal Jay Ganesh	ZEN ELECTRICAL COMPANY	31	Lonari Rohit Shankar	Fenace Auto
2	Bhoi Bhavesh Sunil	Twin engineers	32	Malekar Sarvesh Deepak	Shri Padmavati Industries
3	Bhonsle Karan Hambir	Sthenos composites	33	Mane Manasi Narendra	YASH PLASTIC AND ENGINEERING WORKS
4	Bhosale Jayesh Dattatray	KNORR-BREMSE TCI	34	Paliwal Sheetal Sachin	Mettechenik
5	Buundele Prerna Dinesh	Forbes Marshall	35	Panchal Maroti Dnyanoba	Fine Dies & Moulds (India) Pvt. Ltd.
6	Chaudhari Devendra Anil	Knorr Bremse Technological Center India Pvt. Ltd.	36	Patel Yash Jayant	Burckhardt Compression
7	Chaudhari Mohan Dattatray	Burckhardt compression	37	Patil Pragati Uday	Mettechnik
8	Chaudhari Shalem Naresh	Matchwell Engineering	38	Patil Raj Kiran	
9	Choudhari Kailash Somaram	SAMVINSAN Engineering Pvt. Ltd.	39	Patil Yash Dipak	KSB pumps
10	Choure Ramhari Asaram	Dhriti Automotive LLP	40	Pawaskar Mayuresh Kishor	ACME Tools
11	Dakliya Yash Prashant	Armatech Associates	41	Pimple Malhar Ajit	Haldex Anand India Pvt Ltd
12	Date Dhananjay Vilas	Burckhardt Compression (India) Pvt. Ltd	42	Rane Vishal Prakash	Tata motors Ltd
13	Deshmukh Athang Vivek	Knorr-bremse Technology Center India	43	Shinde Yogada Santosh	Sadhana Enterprises
14	Garodi Kunal Namdeo	Knorr-Bremse Technology Centre India Pvt Ltd	44	Sonawani Parth Sanjay	A.N. ENGINEERING WORKS
15	Ghoderao Shubham Anil	Knorr Bremse Technology Center India	45	Sondkar Shweta Amol	Stead Solve Design & Manufacturing

		Private Limited			Solutions LLP
16	Gorad Saurav Gorakshanath	DEC (DESAI ELECTRONICS)	46	Sutar Omkar Bharat	Robtech Automation and Services
17	Gugale Yash Sandip	Shree Om Sai Engineering	47	Takle Anuj Balasaheb	Om industries
18	Gujarathi Gaurang Pankaj	Knorr-Bremse Technology Centre India	48	Tilekar Chetan Nandkumar	SteelFab Engineering Pvt.Ltd
19	Hattarge Abhishek Anil	Shree om sai engineering dhayari,pune	49	Urkude Nirranjan Jitendra	KNORR- BREMSE Technology Center India Private Limited
20	Hattekar Nikhil Abhay	IndiTech Valves Pvt. Ltd.	50	Uttekar Aryesh Dhiraj	Stead Solve Design & Manufacturing Solutions LLP
21	Hingane Shubham Vikas	STEELFAB ENGINEERING PVT. LTD	51	Waghmare Shubham Sandip	Shubham Engineering
22	Ingale Asawari Dinkar	IndiTech Valve's Pvt. Ltd.	52	Welde Parth Jagdish	Nathkrupa Engineering
23	Jadhav Shashwat Shivaji	Llyods steel Industries limited	53	Yevatekar Yash Mukund	Greaves Cotton Ltd
24	Kale Mansi Ulhas	Twin Engineers Pvt Ltd Bhosari.	54	Kadam Siddhant Sachin	Suyog Engineering
25	Karanjkar Aditi Ramchandra	Stead Solve Design & Manufacturing Solutions LLP	55	Patil Aditya Ajay	Suyog Engineering
26	Kharkar Pushpanjay Hemkant	Burckhardt compression	56	Poman Prachit Pravin	Padmavati industries chakan
27	Kshirsagar Sharvari Madhukar	Vishay Components India Pvt Ltd	57	Sabale Prahlad Gautam	Trison'S Engineering
28	Kulkarni Abhishek Prashant	ElringKlinger Automotives	58	Limkar Shaunak Prashaant	Quantus Technik
29	Late Prathamesh Girish	BEP INDIA AUTOMOTIVE SYSTEMS	59	Mujawar Mahammadsaif Jakirhusen	Precision pressing manufacturing
30	Jadhav Shashwat Shivaji	Llyods steel Industries limited	60	Patil Siddhesh Mahesh	Ghatage Patil Industries

EXPERT LECTURES / WEBINARS DELIVERED BY INDUSTRY EXPERTS

SN	Faculty Coordinator	Class (Number of students attended)	Name, Industry, designation and contact details of Expert	Topic	Date
1	Dr C S Choudhari, Dr M R Dahake	TE Mech (A,B and SW)	Mr B B Mate Senior Consultant, Thermax, Pune	NDT in Heat Exchanger Manufacturing	11 th October, 2023
2	Dr B D Bachchhav, Ms P R Tete	TE Mech (A, B)	Mr D K Mohan Consultant	CNC Programming	29th August, 2023
3	Dr P S Gajjal	BE	Mr S S Gawade	New Era in EV	26th September, 2023
4	Dr S V Chaitanya Ms P R Tete	TE Mechanical	Mr D K Mohan Consultant	Quality and Drawing	28th August, 2023
5	Dr A V Waghmare Dr M S Deshmukh Mr S A Ansari	BE Mechanical	Mr Mukund Ranade	Misconcepts in Psychrometrics	06th August, 2023
6	Dr S H Wankhade	TE Mech SW	Mr. Amrendra Project Manager, Rolling Stock, Pune Metro	Mechatronics applications in Pune Metro	27th October, 2023
7	Dr D S Malwad	TE Mech SW	Mr. Laxmikant Lahankar Atlas Copco (India) Private Limited,	Opportunities in Supply Chain Management	30 October, 2023

MOU INITIATED BY THE DEPARTMENT

SN	Faculty Coordinator	Name of Industry	Date of MoU Signed	Valid up to
01	Mr. M P Bauskar	Mettchnik Pvt Ltd Pune	10/10/2019	10/10/2024
02	Dr C S Choudhari, Dr A V Waghmare	Vimal Nourishment Technologies Pvt. Ltd. Pune	04/08/2021	04/08/2024
03	Dr A V Waghmare	Ameya Industries Pune	31/08/2021	Till it is discontinued by both parties.
04	Dr. B. D. Bachhav Dr. C. S. Chaudhari Dr. P. S. Gajjal	Setco Spindles India (Pvt) Ltd Pune	18/02/2022	17/02/2025
05	Dr. B. D. Bachhav	Stead Solve Design and Manufacturing Solutions LLP Pune	23/02/2022	22/02/2025
06	Dr. S H Wankhade	UB Cryogenic Solutions LLP, Pune	04/03/2022	03/03/2025
07	Dr. B. D. Bachchhav	Institute of Systems Pune.	04/04/2022	03/04/2025
08	Dr. B. D Bachchhav Dr S V Chaitanya	SSIG Manufacturing Advancements Pvt Ltd. Pune	27/04/2022	26/04/2025
09	Mr P S Aglawe	E-Addict Mobility Solutions Pvt Ltd OPC Pune	05/08/2022	04/08/2025
10	Dr S H Wankhade	Twin Engineers Pvt Ltd Pune	10/04/2023	09/04/2028

A few glimpse from the AY 2023-24 (June-December 2023)



“NDT Techniques in Heat Exchanger Design” Talk by Mr B B Mate



Expert Lecture: Mr. Amrendra Project Manager, Rolling Stock, Pune Metro titled “Mechatronics applications in Metro Train” on 27th October, 2023



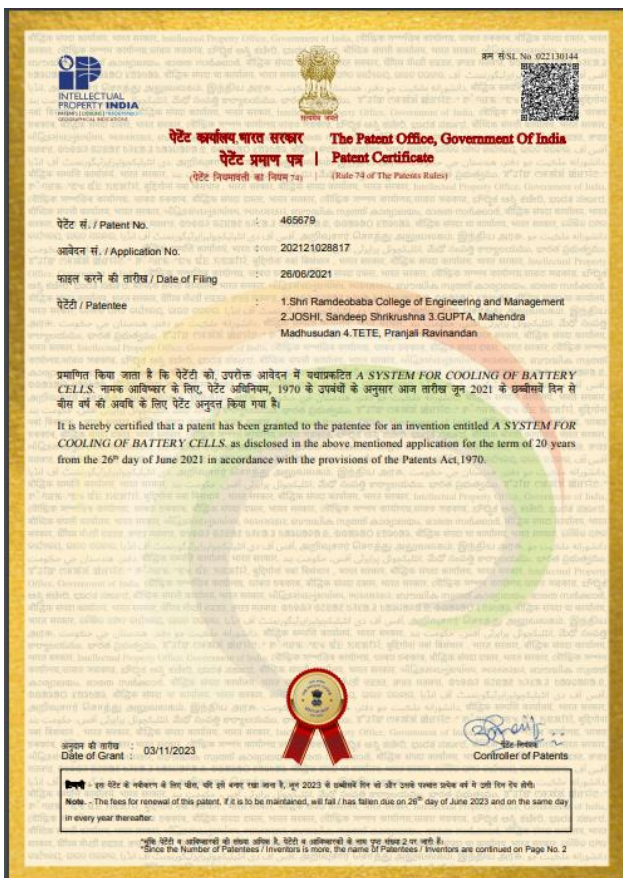
Dr. S H Wankhade at Maharajashree Industrial Solutions, PCMC, Pune undergoing Industrial Training and participating in the Development of Project on Automatic machine for Cheese Stuffing in Mushroom for an USA client.



TRAINING TO INDUSTRY PERSONNEL: Dr. Sandeep Wankhade with the participants of L&T - PRAYAG 2.0 - Emerging Technology Workshops at HE Hazira CTCW _ 61 Participants



Dr. D. K. Mohan, and industry expert delivered a lecture on “Quality and Drawing” for the third year students. The event was coordinated by Dr. S. V. Chaitanya.



A patent titled “A System for Cooling of Battery Cells” has been granted to Ms. P. R. Tete by The Patent Office, Government of India based on her Ph.D. research work.

Dear Readers,

We extend our heartfelt gratitude to each of you for taking the time to engage with this edition of our newsletter. A special thanks goes to the dedicated faculty, diligent students, and supportive staff whose contributions and achievements have been the spotlight of our stories. Your hard work and enthusiasm not only enrich our department but also strengthen the sense of community that sets us apart. Thank you for making our Mechanical Engineering Department a vibrant and inspiring place to learn, teach, and innovate.

Thank you once again for joining us in this issue. We hope you found it enlightening and engaging. Until next time, keep turning the gears of innovation!

Warm regards,

Dr. S. V. Chaitanya

Dr. P. R. Tete

Thank You