

MET's Institute of Engineering

Department of Mechanical Engineering

NEWS LETTER



Adgaon, Nashik-422 003

Mobile: (91)9881100099 | Tel.:(0253)2303515 | Telefax: (0253)2303203

E-mail:enquiries@bkc.met.edu | www.metbhujbalknowledgecity.ac.in

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FROM THE EDITOR'S DESK

Hello Readers

We are delighted to present the Department of Mechanical Engineering, MET's Bhujbal Knowledge City Institute of Engineering *Semester wise* Newsletter (*Semester I*) (*Academic year 2024-25*) for your perusal. In this rapidly evolving era, e-learning has proven to be the most effective method of knowledge dissemination. The present newsletter showcases the endeavors of our students and the accomplishments of the faculty over the preceding year.

We trust that you will find this edition enjoyable, and we invite your suggestions and feedback to assist us in making further improvements.

Stay healthy, stay fit!!

News Letter Core Committee

FACULTY COORDINATOR

Dr. A. Y. Chaudhari (Assistant Professor)

FACULTY INCHARGE

Mrs. P. G. Muthal (Assistant Professor)

EDITED BY

Navase Prathamesh Prashant BE

DESIGN BY

Sali Shraddha Vijay TE

CONTENT WRITERS

1. Jagtap Diksha Dilip SE
2. Derle Yash Haribhau SE
3. Thange Sahil Suresh TE
4. Shinde Rohit Kiran TE
5. Siddhesh Naresh Takne BE
6. Mahajan Ajit Ramesh BE

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Departmental Vision and Mission

Vision

- *To become the center of excellence in Mechanical Engineering discipline with strong research and application based teaching beneficial to contribute well-being of industry and society.*

Mission

- *To provide quality education and generate future leaders in the field of Mechanical Engineering through a rigorous curriculum.*
- *To promote teaching and learning process resulting in research that is distinguished by its impact on academia, industry & society.*

Admitted Students

UG	261
PG	12
PhD	25

Total no of Faculties : 24

Summary of events and Achievements

Sr. No.	Events		Within the state		Outside the state		Award
			Within the college	Inter college	National	International	
1	METECH' 24		--	--	--	--	--
2	PROJECT COMPETITION		06	--	--	--	--
3	SEMINAR / FDP / STTP / Workshop		--	02	18	--	--
4	CONFERENCE	Staff	--	--	--	03	--
		Students	--	--	--	--	--
5	NPTEL	Staff	--	--	05	--	--
		Students	--	--	07	--	--
6	SPORTS		--	--	--	--	--

INDUCTION PROGRAMM (ME)

In the Master of Engineering induction program, Dr. S. D. Kalpande (HOD) gave an overview of the Mechanical Department, Dr. H. A. Chavan (ME Coordinator) explained the first-year syllabus structure, and Dr. A. Y. Chaudhari (Exam Coordinator) discussed the examination pattern for ME first-year with students.



Glimpses of Induction Programm ME

METALLURGY LAB VISIT

Saket Chaturvedi, the **CEO of HAL** (Hindustan Aeronautics Limited), visited the Metallurgy Lab in the Mechanical Engineering department with the intent to upgrade the lab to align it with industry standards and requirements. The visit likely focused on ensuring that the lab's equipment, and resources are modernized to meet current technological demands, especially in fields related to metallurgy and material sciences, which play a crucial role in the aerospace, defense, and manufacturing sectors where HAL is a key player. Dr. V. P. Wani (Principal), Dr. S. D. Kalpande (HOD), all staff members were interacted with Chaturvedi sir.



Glimpses of Metallurgy Lab visit

METECH'24

On the occasion of “**Engineers Day**” MET Bhujbal Knowledge City's Institute of Engineering, Department of Mechanical Engineering organized Technical On the occasion of “**Engineers Day**” MET Bhujbal Knowledge City's Institute of Engineering, Department of Mechanical Engineering organized Technical event METECH' 24. For this event students participated the technical events like mad for CAD, Quizzical, Bike mania had huge response from students. The winners were appreciated by trophy, certificates.

Dr. V. P. Wani (Principal), Dr. S. D. Kalpande (HOD) and all staff members & students were present for this event.



Glimpses of METECH' 24

AVISHKAR'24

The National Education Policy has placed priority on research in higher education institutions. Academic research is an integral part of the higher education system in most knowledge societies. To keep the research at the priority, the students in higher education should be enthused to engage themselves in the research. For that **Project Competition** "AVISHKAR'24" was organized on **30th Sept. 2024** at Institute level for UG/PG/PHD students of MET's Institute of Engineering, Bhujbal Knowledge City, Adgaon Nashik. Dr. V. P. Wani (Principal), all the HOD, External Examiner Dr. Kawade, all staff members & 234 student participants (54 Project Group) were present for this event.



Glimpses of Avishkar' 24

INDUSTRIAL VISIT

As per the **Second year** syllabus of SPPU industrial visit is organized for subject **Engineering Materials and Metallurgy** by Subject teacher Dr. D. D. Deshmukh, Mr. A. D. Patil and Mr. S. K. Nirgude for the SE students on **25/09/2024** at Nashik Engineering Cluster (NEC) Ambad, Nashik.



Group photo of industrial visit

As per the **Second year** syllabus of SPPU industrial visit is organized for subject **Engineering Thermodynamics** by Subject teacher Dr. D. K. Dond and Mr. N. S. Hyalij for the SE students on **30/09/2024** at Kadwa Sugar Factory, Materewadi, Dindori, 422202.



Group photo of industrial visit

As per the **Third year** syllabus of SPPU industrial visit is organized for subject **Mechatronics** by Subject Teacher Dr. S. V. Ingle and Mr. Nitin B. Ahire for the TE students on **24/09/2024** at ARMSTRONG Dematic Company, Nashik.



Glimpses of Industrial visit

As per the **Third year** syllabus of SPPU industrial visit is organized for subject **Digital Manufacturing Laboratory and Skill Development** by Subject teacher Dr. S. R. Surywanshi, Mr. Nitin B. Ahire, Mr. Y. S. More and Dr. D. D. Deshmukh for the TE students on **11/09/2024** at Supernova Engineers limited Ambad, Nashik.



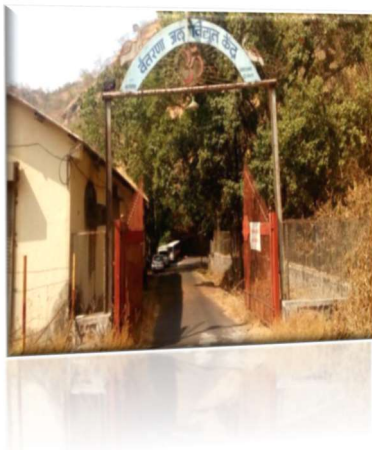
Group photo of industrial visit

As per the **Final year** syllabus of SPPU industrial visit is organized for subject **Heating Ventilation Air-Conditioning and Refrigeration** by Subject teacher Mr. D. P. Panchve for the BE students on **24/09/2024** at Shri Krishna Ice Factory, Panchavati, Nashik.



Glimpses of Industrial visit

As per the **Final year** syllabus of SPPU industrial visit is organized for subject **Turbomachinery** by Subject teacher Dr. A. S. Patil for the BE students on **04/10/2024** at Vaitarana Hydro Power Plant, Vaitarna.



Glimpses of Industrial visit

VALUE ADDED COURSES

Value Added Courses (VACs) are vital for engineering students to enhance learning, gain industry-relevant skills, and boost employability in a competitive and dynamic career landscape. To enhance students' skills and bridge the industry-academia gap, the Department of Mechanical Engineering organized value-added courses.

❖ Aptitude Skill

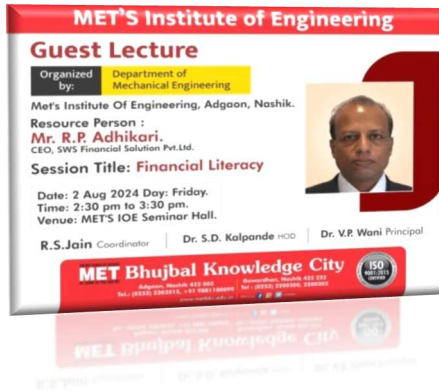
A value-added course on aptitude skills, resume writing, interview preparation, and soft skills was conducted by Mr. Gopakumar Krishna Panicker GTT Nashik from 05/08/2024 to 08/08/2024 for the Third and Final year students. Mr. S. K. Dahake was course coordinator.



Glimpses of Aptitude Programm

❖ Financial Literacy

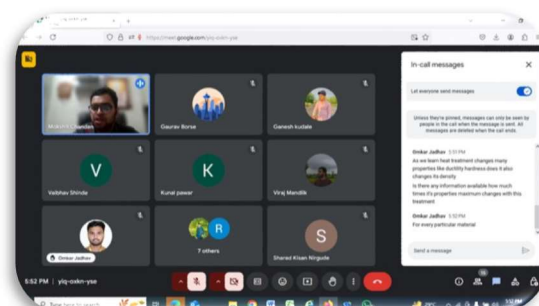
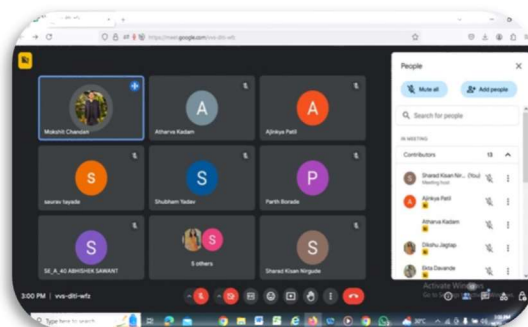
As part of the value-added course to enhance financial knowledge and highlight the importance of insurance, a session on financial literacy was conducted by Mr. R. P. Adhikari, CEO of SWS Financial Solutions Pvt. Ltd., on 02/08/2024 in the Engineering Seminar Hall. Mr. R. S. Jain was course coordinator.



Glimpses of financial literacy session

❖ Material and Metallurgy

As part of the value-added course on Materials and Metallurgy, various sessions were conducted on topics such as material types, testing methods, heat treatment, properties, and the phases in the iron-iron carbide diagram. The sessions were delivered by experts, including Mr. Mokshit Chandan, Manager at Labh Steel, Mumbai, Mr. S. K. Nirgude, and Dr. A. Y. Chaudhari, in both online and offline modes. The course coordinators were Dr. A. Y. Chaudhari and Mr. S. K. Nirgude.



Glimpses of Material and Metallurgy Offline and Online session

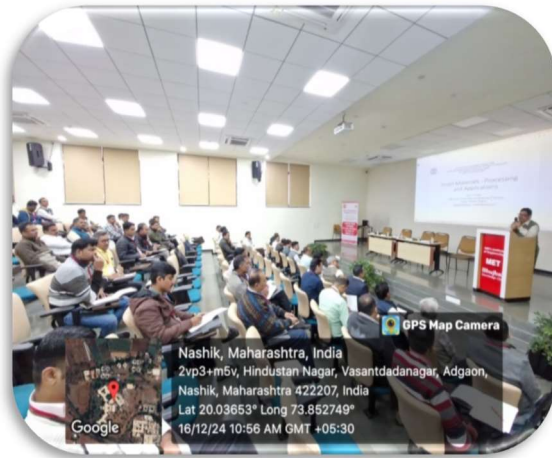
AICTE Training and Learning

The AICTE Training & Learning (ATAL) Academy-sponsored Faculty Development Program (FDP) on “**Manufacturing Techniques for Novel Materials: The Impact of Industry 4.0**” was held from **December 16 to 21, 2024**.

The inaugural session on December 16 began at 9:00 AM with a welcome address by **Dr. D. D. Deshmukh**, Co-Coordinator of the FDP. **Prof. S. D. Kalpande**, Coordinator and Head of the Department of Mechanical Engineering outlined the program objectives, emphasizing its focus on Industry 4.0 technologies and their transformative impact on manufacturing and education.

He highlighted how sessions would explore innovations like smart materials, artificial intelligence (AI), the Internet of Things (IoT), and automation, which are revolutionizing the design, production, and utilization of materials. He also discussed advancements in manufacturing techniques such as additive manufacturing, CNC machining, welding and joining, and micromachining, stressing the importance of updating academic curricula to align with these technologies.





Glimpses of AICTE ATAL FDP



Group photo of AICTE ATAL FDP with Participants

NPTEL COURSES (Staff & Students)

Sr. No.	Name	Staff / Student	Name of Course	Duration
1	Mr. D. P. Panchve (Topper)	Staff	Refrigeration and Air Conditioning	Jul-Sep 2024 (8 Weeks)
2	Mr. S. K. Nirgude (Topper)	Staff	Manufacturing Processes Casting and joining	Jul-Aug 2024 (4 Weeks)
3	Dr. S. P. Kakade	Staff	Product Design and Development	Jul-Aug 2024 (4 Weeks)
4	Mr. R. S. Jain	Staff	Logistic & supply chain Management	Jul-Oct 2024 (12 Weeks)
5	Nitin S. Shewale	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
6	Samyak M. Gangurde	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
7	Nilesh A. Mali	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
8	Prathamesh P. Navase	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
9	Siddhesh N. Takne	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
10	Suraj A. Dusane	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
11	Ajit Mahajan	BE Student	Product Design and Development	Jul-Aug 2024 (4 Weeks)
12	Mr. A. G. Patil	Staff	Energy Conversion Technologies	Jul-Sep 2024 (8 Weeks)



Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
NITIN SHARAD SHEWALE
 for successfully completing the course

Product Design and Development

with a consolidated score of **69 %**

Online Assignments	24.17/25	Proctored Exam	45/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815443100384 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
SAMYAK MILIND GANGURDE
 for successfully completing the course

Product Design and Development

with a consolidated score of **61 %**

Online Assignments	21.67/25	Proctored Exam	39/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815343100465 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
NILESH ASHOK MALI
 for successfully completing the course

Product Design and Development

with a consolidated score of **66 %**

Online Assignments	24.17/25	Proctored Exam	42/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815443100346 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
PRATHAMESH PRASHANT NAVASE
 for successfully completing the course

Product Design and Development

with a consolidated score of **69 %**

Online Assignments	24.17/25	Proctored Exam	45/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815343100101 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
SIDDHESH NARESH TAKNE
 for successfully completing the course

Product Design and Development

with a consolidated score of **72 %**

Online Assignments	24.17/25	Proctored Exam	48/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815343100188 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
SURAJ AVINASH DUSANE
 for successfully completing the course

Product Design and Development

with a consolidated score of **73 %**

Online Assignments	25/25	Proctored Exam	48/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815443100270 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
AJIT MAHAJAN
 for successfully completing the course

Product Design and Development

with a consolidated score of **75 %**

Online Assignments	21.67/25	Proctored Exam	53.5/75
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Total number of candidates certified in this course: 1291

Jul-Aug 2024
 (4 week course)

Indian Institute of Technology Roorkee

Prof. Kausik Ghosh, Professor (Chemistry), Coordinator (CIC)
 Prof. Ranjana Pathania, Professor (ISEE), Coordinator (NPTEL)

swayam

Roll No: NPTEL24ME815443100259 To verify the certificate No. of credits recommended: 1 or 2

Elite
NPTEL ONLINE CERTIFICATION
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
ANIL GOPAL PATIL
 for successfully completing the course

Energy Conversion Technologies (Biomass and Coal)

with a consolidated score of **57 %**

Online Assignments	18.33/25	Proctored Exam	39/75
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Total number of candidates certified in this course: 235

Jul-Sep 2024
 (8 week course)

Indian Institute of Technology Guwahati

Prof. T. V. Bharati, Head, Centre for Educational Technology, NPTEL, Coordinator, IIT Guwahati

swayam

Roll No: NPTEL24CH48S243100344 To verify the certificate No. of credits recommended: 2 or 3

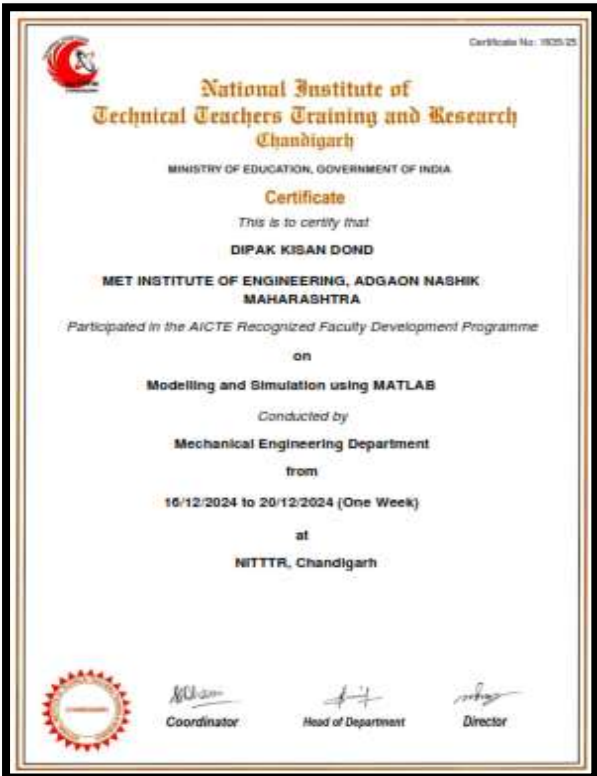
FDP/ Workshop / Conference (Staff)

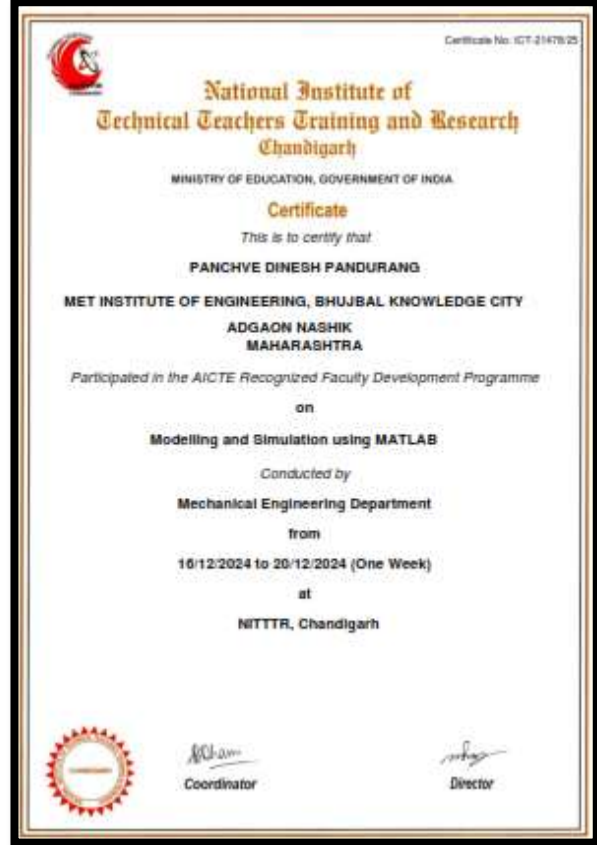
Sr. No.	Name of Staff	Title	FDP/ Workshop/ Conference	Duration
1	Dr. S. D. Kalpande	NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
2	Dr. A. Y. Chaudhari	NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
		Advanced Artificial Intelligence (AI) Techniques & MATLAB Integration	FDP	21-10-2024 to 26-10-2024
3	Dr. S. K. Dahake	NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
		Advanced Artificial Intelligence (AI) Techniques & MATLAB Integration	FDP	21-10-2024 to 26-10-2024
4	Mr. V. P. Chaudhari	Multiple Attribute Decision Making & its industrial application.	STTP	15-06-2024 to 19-06-2024
		The New era of Bio Engg; Innovations & Applications.	FDP	01-07-2024 to 05-07-2024
5	Mr. A. D. Patil	Advanced Artificial Intelligence (AI) Techniques & MATLAB Integration	FDP	21-10-2024 to 26-10-2024
		NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
6	Dr. S. P. Kakade	Computational Fluid Dynamics	Workshop	17-08-2024 to 19-08-2024
		NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
7	Dr. A. S. Patil	Shaping the future of teaching with industry	FDP	13-08-2024
		Smart monitoring of vibration in CNC turning tool holders – Arduino Based Sensor Interface	Conference	2024
		Surface texture evaluation in turning of Ti6Al4V under nano flood cooling environment.	International Conference	17-12-2024 to 20-12-2024
8	Mr. S. K. Nirgude	NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
9	Mr. M. S. Nathe	NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024
10	Mrs. P. G. Muthal	Effective teaching through E-content development & online pedagogy	FDP	30-05-2024 to 03-06-2024
		NEP 2020 Orientation & Sensitization Programme	FDP	19-08-2024 to 29-08-2024

11	Dr. D. K. Dond	Modelling and Simulation using MATLAB	FDP	16-12-2024 to 20-12-2024
12	Mr. R. J. Pawar	Modelling and Simulation using MATLAB	FDP	16-12-2024 to 20-12-2024
13	Dr. R. R. Barshikar	Modelling and Simulation using MATLAB	FDP	16-12-2024 to 20-12-2024
14	Mr. D. P. Panchve	Modelling and Simulation using MATLAB	FDP	16-12-2024 to 20-12-2024
15	Mr. Y. S. More	Surface texture evaluation in turning of Ti6A14V under nano flood cooling environment.	International Conference	17-12-2024 to 20-12-2024
16	Dr. S. V. Ingle	Surface texture evaluation in turning of Ti6A14V under nano flood cooling environment.	International Conference	17-12-2024 to 20-12-2024









Campus Drive Preparation

Training and Placement Cell organized the Campus Drive Preparation for the company Johnson controls by Mr. D. P. Panchve on the topic HVAC on 14/09/2024 at Department of Mechanical Engineering.



Glimpses of HVAC Session, Preparation for Johnson controls

PLACEMENTS

Sr. No.	Name of Student	Name of Company	Package
1	Vishal Kapse	JLL Mumbai	3.5LPA
2	Shobit Bagal	JLL Mumbai	3.5LPA
3	Ansh Dinde	JLL Mumbai	3.5LPA
4	Shivam Sawant	JLL Mumbai	3.5LPA
5	Aryan Aaher	JLL Mumbai	3.5LPA

PARENTS MEET

The Department of Mechanical Engineering organized a Parents Meet on 28th September 2024 for Second, Third, and Final year students, offering a valuable platform for parents to interact with faculty members and gain meaningful insights into their children's academic performance and accomplishments. The event also highlighted various career opportunities available to graduates, underscoring the important role parents play in guiding and supporting their children's career decisions. The meet witnessed the presence of Dr. S. D. Kalpande (Head of Department), all faculty members, and approximately 72 parents.

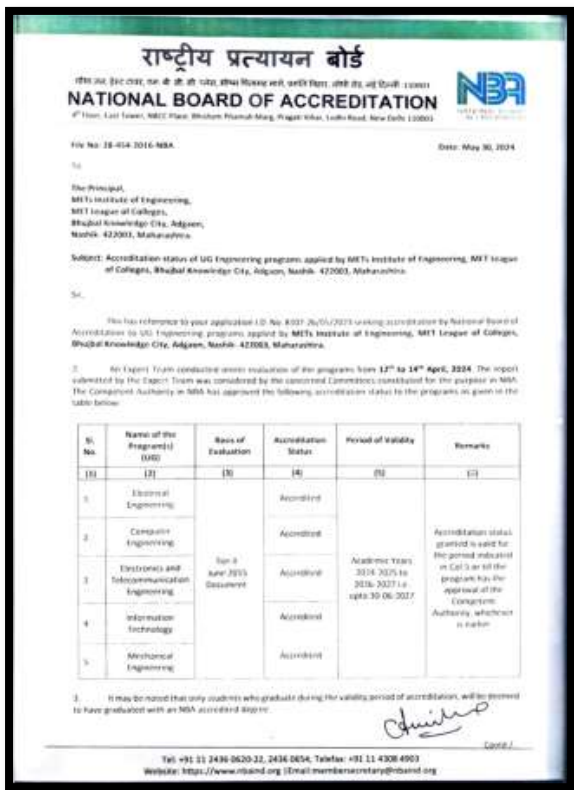


Glimpses of Parents Meet

APPRECIATION

National Board of Accreditation (NBA)

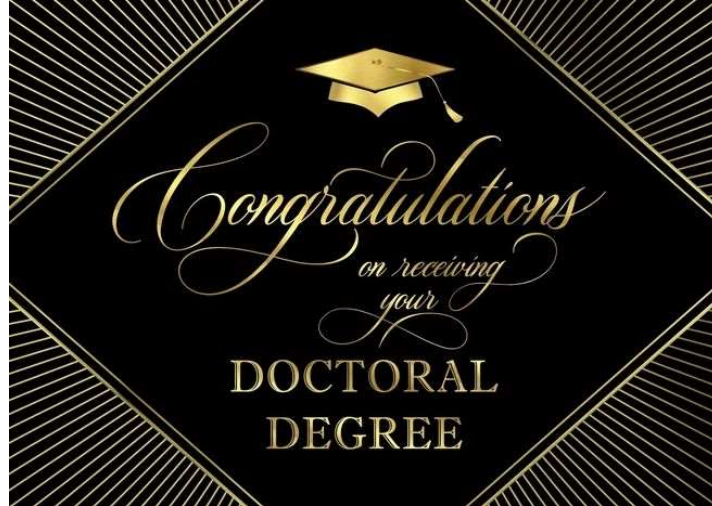
Heartfelt congratulations and appreciation to Dr. S. D. Kalpande, Head, Department of Mechanical Engineering, along with all the teaching and non-teaching staffs, for their relentless dedication and hard work, which has contributed to the remarkable achievement of receiving the **National Board of Accreditation (NBA)** for the academic years **2024-2027**. Dr. V. P. Wani, Principal, Institute of Engineering, and Dr. Shefali Bhujbal, Trustee of the Institute, also expressed their gratitude for the efforts of the mechanical staff.



Accreditation Certificate and Appreciation Group Photo

List of staff completed PhD

Sr. No	Name of Staff	Date of Viva-Voce	University
1	Sachin K. Dahake	21/10/2024	Sarvepalli Radhakrishnan University Bhopal.



Thank you and Take Care