



K K Wagh Education Society's

K K Wagh Institute of Engineering Education and Research, Nashik.

Department of Mechanical Engineering

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Semester I of AY 2023-24

TECHNICAL NEWS LETTER

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■ Vision of the Department

To lead as a center of quality technical education and research in the field of Mechanical engineering to serve the needs of the society

■ Mission of the Department

M1: To integrate and apply scientific and engineering knowledge to develop innovative systems for sustainable development of the society

M2: To inculcate research culture amongst students by offering multidisciplinary projects from industrial and societal background

M3: To inculcate professional ethics along with contemporary technical skills for overall development of students

■ Expert Lectures Organized

- Mr. Suyog Vispute, Founding Partner at Rever Industries Nashik, delivered an expert talk on "Industrial Challenges in Product Design & Career Opportunities" on 20th July 2023.
- Mr. Pratik Shinde, Software Manager, and Mr. Ankit Gurathi, Research Scientist, from Gexcon India Pune, conducted a session on "Opportunities as a CFD Engineer in Technical Safety with Gexcon's FLACS CFD Software" on 5th August 2023.
- Mr. Aniket Bagde, CEO & Lean Consultant at AB Associate Nashik, conducted an expert talk on "Lean Startup and Minimum Viable Product" on 8th August 2023.
- Mr. Gokul Pawar, Project Manager at Mechwell Industries Ltd, Nashik, conducted a session on "Engineering Design Tools and Techniques" on 4th March 2023.
- Mr. Sandip Deore, Founder & CEO of Progress Engineering, delivered an expert talk on "How to Read Production Drawing?" on 26th August 2023.
- On 28th August 2023, a FY Counseling session on time and stress management was held, with 41 participants. Resource person: Dr. Pratibha Chandak, Faculty at KKWIEER Nashik.
- Mr. Rajat Chavan, Engineering Trainee at M&M Nashik, conducted a session on "Innovation Autobahn: Accelerating Ideas in German University Towns" on 29th August 2023
- Mr. Hitesh Shinde, Jr. Project Manager at CHINT Solar Europe Germany, conducted a session on "Battery Ancillary Service & Induction to FY Students" on 7th September 2023.
- Mr. Suresh Didhmishe, Energy Consultant HVAC

conducted a session on "HVAC" on 21st September 2023.

- Mr. Rohit Kumar Dave, Ex. Manager GSFC Ltd. Bandra, conducted an expert talk on "Business Growth in HVAC & R Industry" on 21st September 2023.
- Prof. Hardik Shukla, Assistant Professor ISHRAE at GEC Godhra Gujarat, conducted a session on "Career Opportunities in HVAC" on 21st September 2023.
- Mrs. Sushma Patil, Manager at Cognifront Nashik, conducted a session on "IoT and Robotics Technology" on 22nd September 2023.
- Mr. D. V. Adhar, Gr. Manager and Plant Head at L&T Electrical & Automation Ahmednagar, conducted a session on "Role of Mechanical Engineers in Industry 4.0" on 21st October 2023.
- Yogesh Phadtare, Psychologist in Kalwa, Thane, conducted sessions on "Outcome-Based Learning Techniques" on 25th October 2023 and "Learning How to Learn" on 26th October 2023.
- Ayyaswani Sundaram, Founder & Owner of Trad3D Technologies Ambad Nashik, conducted a session on "Advances in 3D Printing Technology" on 31st October 2023.
- Mr. Jagdish Deshmukh, Sr. Manager Quality at Ambad Nashik, conducted a session on "Industrial Practices in Heat Exchanger Design and Manufacturing" on 31st October 2023.
- Dr. Vikas Panwar, Professor at D. Y. COE Pune, conducted a session on "Precision & Modeling Technique in Robotics" on 30th November 2023.
- Dr. M. B Fanisam, Assistant Professor at GESCOE Nashik, conducted a session on "Trends in Engineering Metallurgy" on 2nd December 2023.

■ FDP/STTP/Workshops Organized or Attended:

- From 24th to 26th August 2023, a Three-Day Workshop on Creo and Production Drawing was conducted, with 105 participants. Resource person: Mr. Sumant Borade, Training Manager, Access CADD Nashik.
- On 14th October 2023, an event titled "Advance in Heat Transfer" was organized. Resource persons: Dr. S. B. Sonawane, Dr. D. W. Deshmukh, Dr. S. L. Borse the professors from KBT COE Nashik, Cummins COE Pune, and Imperial COE Pune, respectively.
- A Two-Day workshop on Ansys training was held

from 30th to 31st October 2023, with 30 participants. Resource person: Mr. Ravindra Bucherla, Application Engineer, ARK Infosolutions Pvt Ltd Bengaluru.

Department Faculties have attended 12 FDP, STTP & Workshops at State, National and International level.

■ **Publications in International Journals:**

- S.V. Kadbhane conducted research on "Numerical Modelling and Optimization of Perforated Twisted Tape Insert based on Hybrid ANSYS-RSM Approach" published in Heat Transfer, 22 November 2023.
- Pankaj Beldar, Mohansingh Pardeshi, and Rahul Rakhade analyzed clusters with Indian patent data using different word embedding techniques in the Journal of Survey in Fisheries Sciences (SFS), 10(3), pp. 735-752, 2023, accepted on 1 Dec, 2023.

■ **Industrial Visits:**

- Industrial visit to Narang Cold Pvt Ltd in Satpur, Ambad, Nashik, was arranged for B.E. All students on 08-08-2023 to provide practical exposure to HVAC systems. Kale S. S. and Dr. M. N. Shelar accompanied the students, who gained insights into HVAC systems.
- Industrial visit to Ashoka Tyres and Services in Amrutdham Panchwati, Nashik, was organized for B.E. All students on 01-08-2023 to understand the process of wheel balancing and raise awareness about safety norms and ethics. Rayjade Ganesh R., S. D. Mate, and Ramesh Bhandare guided the students.
- Industrial visit to Water Treatment Plant in Nilgiri Baug, Bidi Kamgar colony, Nashik 422003, was arranged for T.E. B students on 04-10-2023 to study the industrial application of SCADA systems. Prashant Kavale and Vaibhav Khond accompanied the students.
- Industrial visit to Shivam Technoplast at B-32, Satpur MIDC Nashik, was conducted for S.E. A students on 16-10-2023 to learn about polymers and polymer processing. S. D. Mate and N. V. Patil guided the students.
- Industrial visit to Shivam Technoplast at B-32 MIDC Satpur Nashik was arranged for S.E. B students on 18-10-2023 to learn about polymers and polymer processing. S. D. Mate, N. V. Patil, and P. R. Beldar guided the students.
- Industrial visit to Sagar Enterprises & Unnati Engineerings at D1/25, Ambad MIDC, Nashik, was organized for T.E. A students on 25-10-2023 to develop skills in advanced manufacturing technologies. Prof. M. V. Bhadak and Prof. M. R. Bahiram accompanied the students.
- Industrial visit to Sagar Enterprises (Unnati Industries) at XP8P, TSCH, D1/25 MIDC Ambad Nashik, was arranged for T.E. B students on 27-10-2023 to understand modern manufacturing

processes like electroplating and laser cutting. Prof. Pardeshi Mohansingh Rameshsingh guided the students.

- Industrial visit to Air Conditioning Plant at City Center Mall, Nashik, was conducted for B.E. B students on 27-10-2023 to demonstrate the working, components, and application of air conditioning plants. Snehal Vasant Kadbhane accompanied the students.
- Industrial visit to Nashik Thermal Plant in Eklahare, Nashik, was arranged for B.E. All students on 26-10-2023 to study and understand steam turbines and the working principle of thermal power plants. Preeda S. Pillai and Rahul D. Rakhade guided the students.
- Industrial visit to Kedar Enterprises at F-25, MIDC Ambad, Nashik, was organized for F.E. M students on 24-11-2023 to understand the process of casting a component. Dr. V. S. Patil accompanied the students.

■ **Achievements:**

- The patent with number 202221001103A was published on July 14, 2023, titled "Axial Relative Motion Ball Bearing," and credited to inventors Dr. P.B. Kushare and Pratik Thorat.
- The patent with number 202221001104A was published on July 14, 2023, featuring the invention titled "Universal Brake Caliper." The inventors credited are Dr. P.B. Kushare, Yadnyesh Bhor, and Aaksah Pathade.



Mr. Singh Nayan Rank 2nd in International Basketball Youth games - Indo-Nepal international series September 2023



Mr. Singh Nayan Rank 1st in National level Basketball Youth games council India September 2023



Mr. Sagar Shubham Rank 2nd in Raw powerlifting open championship a Zonal Event organized by Raw Power in Aug 2023

