



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 2022-23

TECHNICAL NEWS LETTER

Semester I of AY 2022-23

■ 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

- Mr. Kundan Verma, Deputy General Manager & Head at HDFC House Sharanpur Link Road Nashik, delivered an expert talk on "Opportunities for Engineers in IT and Finance" on 5th August 2022.
- Mr. Aniket Bagde, CEO & Lean Consultant at AB Associate, Nashik, conducted a webinar on "Lean Start-up & Minimum Viable Product Business" on 12th August 2022.
- Mr. N. D. Thakre, Chairman of Indo Pump, Nashik, and Mr. Jayesh Tope, Owner of Revamp Moto Pvt. Ltd., Nashik, shared their entrepreneur journey in an expert talk titled "My Entrepreneur Journey" on 21st August 2022.
- Mr. Swapnil Shambharkar, Assistant Manager at Mercedes Benz Bengaluru, delivered an expert talk on "Corporate Quality" on 6th September 2022.
- Mr. Vishal Patil, Business Development Manager at GATE Forum Nashik, conducted a session on "Opportunities Through GATE Exam" on 7th September 2022.
- Mr. Sandip Deore, Founder & CEO of Progress Engineers Nashik, delivered an expert talk on "Design of SPM in Industry 4.0" on 10th September 2022.
- Mr. Rauf Shaik and Mr. Amar Grover, ISHRAE Nashik Chapter Secretaries, conducted an event on "ISHRAE" on 22nd September 2022.
- Rajvaibhav S Ramchandra, Counselor in Kholhapur, conducted a session on "Constitution of India" on 1st October 2022.
- Mr. Sushil Pote, Business Head at Invensys CAD, Nashik, delivered an expert talk on "Reverse Engineering" on 10th October 2022.

- Mr. Vivek Nagose, R&D Engineer at Dassault System Pune, conducted a session on "Opportunities and Challenges of Industrial Product Design" on 15th October 2022.
- Mr. Aher Dattatraya, Retired ITI Principal from Govt. Maharashtra, delivered talks on "Time & Stress Management" on 17th November 2022 and "Self-Reliance" on 17th November 2023.
- Mrs. Vaishali Lele, Senior Training & Certification Manager at PDRL Pvt Ltd Nashik, delivered an expert talk on "Recent Trends in Drone Technology" on 4th December 2022.
- Mr. Nachiket Sabris, Senior Industrial Engineer at DHL Supply Chain, Chicago, USA, conducted a session on "Competitive Exam Preparation" on 7th December 2022.
- Mr. Heramb Sahastrabudhe, Mentor at Make in India Startup, delivered an expert talk on "Startup Ecosystem & New Opportunities in Engineering Industry as a CAD CAM CAE Professional" on 29th December 2022.

■ FDP/STTP/Workshops Organized or Attended:

- From 30/07/2022 to 02/08/2022, a Three-Day Workshop on Data Analytics Laboratory was conducted. Resource persons: Dr. P B Kushare, Prof A D Bhagure, Prof G R Rayjade, Prof P R Beldar. Contact: 9890426679. Location: KKWIEER, Nashik.
- From 02/09/2022 to 03/09/2022, a Two-Day Workshop on Creo Parametric was organized. Resource person: Mr. Sumant Borade, Training Manager. Contact: 9823198804. Location: Access CAD Nashik.
- From 01/11/2022 to 06/11/2022, a Six-Day Workshop on Vibration Measurement and Analysis Recent Trends & Techniques was conducted. Resource persons: Mr. Vishwas Handikherkar, Mr. Sangram Patil, Mr. Hemant Bari, Mr. Chetan Sawant. Contact: 9987897709, 9321925402, 9096003430. Locations: Monorail Mumbai, Nandan GSE Mumbai, Adani Thermal Power Station Dahanu, AMT Machine Tool Nashik.
- On 15/09/2022, Engineer Day Celebration was held by the Mechanical Engineering Student Association which was attended by 500 individuals.
- Department Faculties have attended around 42 FDP, STTP & Workshops at State, National and International level.
- On 26/11/2022, Constitution of India Day Celebration took place under guidance of Prof. P. B. Surwade.

Department Faculties have attended around 42 online/offline FDP, STTP & Workshops at State, National and International level.

■ Publications in International Journals:

- Prof. Atulkumar S. Patil conducted a study titled "Effect of Fiber Laser Process Parameters on Texture Dimensions Fabricated on Cast Iron Piston Ring Segments" in Material Science Research India, with ISSN 0973-3469 and Online ISSN 2394-0565, published on 23 Aug 2022
- Prof. Atulkumar S. Patil also authored a paper titled "Experimental Investigation of Micro-Textured Piston Ring and Cylinder Liner Pair at Mid Stroke Operating Conditions" published in the International Journal of Engineering Trends and Technology, with ISSN 2231 – 5381, Volume 70 Issue 10, pp. 381-392, October 2022

■ Industrial Visits:

- Industrial visit to Ashoka Tyres near KKWIEER Nashik was arranged for B.E. C students on 26-08-2022 to understand the balancing of wheels. Prof. S. D. Mate accompanied the students, who gained insights into wheel balancing.
- Industrial visit to Ashoka Tyre Services at 283/5 Mumbai Aara Rd., Panchavati, Nashik 422003, was organized for T.E. A student on 08-09-2022 to raise awareness of preventive maintenance. P.K. Kavale guided the students, who gained insights into preventive maintenance practices.
- Industrial visit to Water Treatment Plant in Nilgiri Bag, Bidi Kamgar, Nashik 42203, was arranged for T.E. B students on 11-11-2022 to understand the practical application of mechatronics systems. P.K. Kavale accompanied the students, who learned about mechatronics systems' application.
- Industrial visit to Water Treatment Plant in Nilgiri Baag, Bidi Kamgar Nagar, Nashik, was organized for T.E. Students on 10-11-2022 to learn about the application and working of SCADA systems. Prof. V.V. Khond and Prof. P.K. Kavale guided the students.
- Industrial visit to AICTE IDEA LAB at KKWIEER, Nashik, was arranged for T.E. All students on 07-11-2022 to study advanced machining processes. Prof. V.V. Khond, Prof. M.V. Bhadak, and Prof. N.S. Dixit accompanied the students.
- Industrial visit to Shalaka Shafts at H38 MIDC Ambad Nashik was conducted for T.E. A students on 07-09-2022 to observe the shaft manufacturing process and read shaft manufacturing drawings. Prof. Kushare P.B., Prof. Rayjade G.R., and Prof. Bhagure A.D. guided the students.
- Industrial visit to Nashik Sahakari Sakhar Karkhana Ltd. in Palse was arranged for S.E. A students on 05-12-2022 to understand boiler construction, operation, and performance analysis.

Kale Shivaji, Dr. Vijay Patil, and Dr. Shelar accompanied the students.

- Industrial visit to Quality Induction at M38 MIDC Ambad was organized for S.E. All students on 09-12-2022 to acquaint them with the practical aspects of induction hardening, tempering, and carbonizing. Prof. P.R. Rahane, Prof. P.R. Beldar, and Prof. M.P. Panchbhai guided the students.
- Industrial visit to Jadhav Casting Pvt Ltd at D 1-24 MIDC Ambad was arranged for F.E. L students on 16-02-2023 to understand different types of patterns in casting and the workflow of the casting process. P.R. Beldar and M.R. Bahiram accompanied the students.
- Industrial visit to NTPS Eklahare Nashik was arranged for B.E. A students on 28-03-2023 to demonstrate the thermal power station, its construction, working, layout, parameters, components, and its effect on the environment. Snehal Vasant Kadbhane and Ashok Devgude assisted the students during the visit.

■ Achievements :



Mr. Ganesh T Shikare Received runner up prize in state level innovative idea competition EUREKA 22-23 held in the month of September



Students of Mechanical Engineering received All India Rank 1st in Quad Torc season 9 organized by ISNEE Motorsports from 3rd to 7th Aug, 2023

