



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 II of AY 2019-20

TECHNICAL NEWS LETTER

Semester II of AY 2019-20

■ Vision of the Department

To impart quality education to the students in the areas of Mechanical Engineering and expose them to world of work.

■ Mission of the Department

M1: To impart analytical skills through adequate exposure to theory.

M2: To provide exposure to engineering practices.

M3: To inculcate professional ethics and provide necessary inputs for the development of overall personality.

It's a great pleasure to present our newsletter for the semester II of AY 2019-20. Department of Mechanical Engineering has been consistently endeavoring to upgrade the skills and performance of students and staff members through various ventures.

■ Expert Lectures Organized

- Mr. Suresh Baburao Bhandekar, Ex. Chief Engineer, MAHAGENCO, delivered an expert talk on the topic "Power Plant Instrumentation" on 10th January 2020.
- Mr. Rohit Thakare, Director, Project Engineer, Design and Drafting institute Nashik, delivered an expert talk on the topic "HVAC MEP Software" on 5th February 2020.
- Mr. Ravi Jorigal, Manager, Asian Academy, Pune, delivered an expert talk on the topic "Career Opportunities in piping design" on 11th February 2020.
- Mr. Vaibhav Shrivastav, Representative, Made Easy Education, delivered an expert talk on the topic "GATE Exam Preparation" on 18th February 2020.
- Mr. Gorksh Korde AMVI RTO A' nagar & Miss Harshali Avhad, AMVI RTO, Malegaon, delivered an expert talk on the topic "AMVI Exam 2020 preparation" on 22nd February 2020.
- Mr. Shaib Mansuri, Manufacturing Engineer, Portescap India Pvt.ltd, Mumbai, delivered an expert talk on the topic "Basic of GD &T and Its Importance" on 12th March 2020.
- Mr. Kaustubh Kulkarni, R&D Engineer, M&M Chennai, delivered an expert talk (Webinar) on the topic "Mechanical Jobs" on 21st April 2020.
- Dr. P. B. Kushare, Professor, KKWIEER Nashik, delivered an expert talk (Webinar) on the topic "How to create an Idea(s)??-Natures Mimicry" on 18th May 2020.
- Prof. Raoshaheb Ghegade, Patent consultant and

facilitator GOI, Sir Dr. M. S. G. Pharmaceutical Education and research Nashik, delivered an expert talk (Webinar) on the topic "Pertinence of innovations, intellectual property and entrepreneurship to meet the challenges of pandemic COVID 19" on 19th May 2020.

- Dr Arvind Yadav, Professor, PIET, Parul University Vadodara, delivered an expert talk (Webinar) on the topic "Applications of Machine learning and deep learning techniques in Mechanical Engineering" on 27th May 2020.
- Mr. Binu Thomus, Project Manager, Ford Motor Company, delivered an expert talk (Webinar) on the topic "Hybrid and electric vehicles" on 29th May

■ FDP/STTP/Workshops Organized or Attended:

- One day workshop was organized on "Refrigeration system: its design and Maintenance" for TE Mechanical Students on 25th February 2020. Resource Persons: Mr. Ashfaq Kagadi, Mr. Subodh Murkewar & Mr. Nikam Sanjay (Facility Management Associates, ISHARE Nashik).
- One day online workshop was organized on "Structural Dynamics" on 21st May 2020, Resource Person: Mr. Dinesh Shirsat, Founder and Director, Hexagon Dynamics, Nashik.
- One day online workshop was organized on "Aspects of Green Technology" on 25th May 2020, Resource Person: Dr. S. L. Borse (ICOER Pune), Dr V. S. Patil & Dr M. N. Shelar (KKWIEER Nashik).
- Prof. S.D.Mate attended 2 days State level workshop on "Research Challenges in Design & Analysis of Mechanical Systems" at Marathwada Mitramandal's Institute of Technology (MMIT), Lohgaon, Pune.
- Prof. C.D.Valunj attended FDP on "Teaching Learning Enhancement" at KKWIEER Nashik, from 2nd March to 4th March 2020.
- Prof. S.G.Gokhale attended FDP on "Teaching Learning Enhancement" at KKWIEER Nashik, from 2nd March to 4th March 2020.

Department Faculties have attended (82) online FDP, STTP & Workshops at State, National and International level.

■ Publications in International Journals:

- Prof. V.V.Khond published a paper entitled "A Comprehensive Review on Applicability of Shape Memory Alloy Hybrid Composite Beam in Vibration Control" in International Journal of Current

Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161.

- Prof. V.D. Nitchit published a paper entitled "Ovality Correction In Manufacturing of The Valve-Seat" in IJSART - Volume 5 Issue 5 -2019 ISSN [ONLINE]: 2395-1052
- Prof. V.K.Patil published a paper entitled "Sintering Temperature and Applied Pressure Effect on Manufacturing Ni-Cr Based Composite Material" in International Journal of Engineering and Advanced Technology (IJEAT) / ISSN: 2249 – 8958, Volume-9 Issue-3, February, 2020.
- Prof. M.P.Panchbhai published a paper entitled "Design of Helmet Cooling System Modules and their Comparison" in International journal for research in applied science & engineering technology/ Volume 8, Issue VI, June 2020/ISSN No.: 2321-9653.

Industrial Visits:

Industrial visit to ST Workshop (Nashik) was arranged for S.E. Students on 25th February 2020 for enhancing the conceptual understanding of the students. Dr. V.S.Patil, Prof.P.S.Pillai, & Prof. S.S.Kale assisted and guided the students during the visit.

Achievements:

Faculty:

Prof. C.S.Mhasde is selected as a Mentor of Change for "Atal Tinkering Lab" in FEB-2020 by GOI.

Department Faculties have successfully completed Courses/ Specialization Courses on various online platforms like Coursera , Udemy , Alison etc.

Student:

Team "Brahmastra Racing" has participated in "BAJA SAE INDIA 2020" competition at Pithampur, Madhopur, Madhya Pradesh, from 22nd January 2020 to 28th January 2020. Following prizes are won by the team:

- All India Rank 7
- 7th in Endurance
- 1st in Maneuverability
- 7th in Rock Crawl
- 4th in Sales Presentation



BAJA SAE INDIA 2020 Competition, Pithampur, Madhya Pradesh.

Team "Brahmastra" has participated in "Quad Bike Design Challenge (QBDC) 2020" competition at AREA 56 Motor Sport, Hyderabad, from 8th February to 11th February 2020. The Team won the seven awards with cash prize:

- Design
- CAE
- Aesthetic
- Endurance
- Dirtex
- Maneuverability
- Overall



Quad-Bike Team Brahmastra : All India Rank-2 of QBDC Competition 2020, Hyderabad

Team "Brahmastra FS" has participated in "5th Formula Green 2020" competition at Kari Motor Speedway Racetrack, Coimbatore, Tamilnadu, from 10th February to 14th February 2020. Following prizes are won by the team:

- Overall 5th
- 5th in Engineering Design
- 4th in Cost & Manufacturing
- 6th in Business Plan



5th Formula Green 2020 Competition, Coimbatore, Tamilnadu.