



Maratha Vidya Prasarak Samaj's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering

Department of Mechanical Engineering

Mech Newsletter

Mechanical Newsletter: June 2024 Vol: 7 Issue: 2

Department of Mechanical Engineering is established in year 1999. Department offers Bachelor of Engineering degree with an intake of 120 students and Post Graduate degree in Design Engineering with an intake of 24 students, which has been affiliated to Savitribai Phule Pune University, Pune. We have well qualified and dedicated staff and is known for its high academic standard, well-maintained discipline and complete infrastructure facilities. The dedication and hard work of the staff members have given fruitful results with our students securing ranks at University examination consistently. Many Mo Us are signed with various industries offering opportunity to the students to work on live industry projects. We have received grant from government of India, BCUD, SPPU, etc. for research work and various workshops. Our students are excellent at National level and State level project competition like Avishkar. There are 13 laboratories in the department. A separate CAD/CAM/CAE laboratory has been developed with various software's such as CATIA, CREO, ANSYS, Pro-ENGINEER, AutoCAD, MATLAB etc. We also conduct

various certificate courses like Post Graduate Diploma in Computer Aided Product Design for the students as per the needs of the industry. The Department also has a well-established workshop for training in Smithy, Carpentry, Welding, Fitting and Machine tools. The department has a departmental association MESA and Students' chapter SAE which organizes National level competitions. The department organizes various Industrial visits, Seminars and Workshops for students. SAE -INDIA Collegiate club is also formulated under which students of all departments are enthusiastically taking part in making the SAE INDIA vehicle.

The purpose of this Newsletter is to inform the student-staff fraternity of Nashik and society at large of the news, including relevant announcements and updates that we believe are important to them. However, this newsletter is also a valuable tool for bolstering morale, promoting unity, team spirit, motivating and rewarding achievements of KBT COE, Nashik. This college News-Letter has started from January 2017 and to be published every semester

Vision of the Institute

To be the centre for excellence and centre of learning for innovation, incubation and research in the domain of product design, thermal engineering and manufacturing technology thereby path finder for professionalism, entrepreneurship and new knowledge contributing to the common masses.

Mission of the Institute

To educate and train undergraduate and post graduate students in Mechanical Engineering by inculcating the values for discipline, quality and transparency and profession development in the job and self-employment emphasis industry-based practices.

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Program Educational Objectives

PEO1: To prepare technocrats that can satisfy the need of mechanical and allied industries

PEO2: To develop critical thinking, problem solving skills, research aptitude and career and professionalism among the students.

PEO3: To improve and expand technical and professional skills of students through effective teaching-learning and industry interaction.

Program Specific Outcomes

PSO1: Ability to design, analysis and problem-solving skills using basic principle of mechanical engineering.

PSO2: Ability to impart technical and professional skills through industry institute interaction.

PSO3: Develop practical skills for the benefits of society

1. Training & Placement

Name of the Event

Placement of Students

Placed in MSKH Seating Systems India Pvt.Ltd. with CTC 2.4 to 3.0 LPA

1. Mr. Rushikesh Kokate
2. Mr. Yash Mahale
3. Mr. Shantanu Ghumare
4. Mr. Abhimanyu Kanade
5. Mr. Satyam Pal
6. Mr. Suyog Patil
7. Mr. Chinmay Adhe
8. Mr. Khushal Chaudhari
9. Mr. Aniket Mahajan
10. Mr. Gaurav Fulpagare
11. Mr. Umesh Kshirsagar
12. Mr. Aman Pathan
13. Mr. Rohan Adke
14. Mr. Sahil Waghmare
15. Mr. Tushar Manekar

Placed in JNK India Pvt.Ltd. with CTC 5.13 LPA

1. Mr. Rohan Adke
2. Mr. Nachiket Deore
3. Mr. Rutuja Gojare
4. Mr. Prathamesh Kulthe

Students of Mechanical Engineering Department Batch 2023 was selected TECH MAHINDRA

1. Mr. Atharva Vyas
2. Mr. Harsh Aher
3. Mr. Renuka Sonawane
4. Mr. Aditya Joshi

2. Industrial Visit

Name of the Event

TE Industrial Visit at Mungi Engineers Pvt. Ltd.
E-67/68, Ambad MIDC, MIDC Ambad, Nashik,
Maharashtra 422010.

Date.: - 08/04/2024

Time: - 11 am – 3 noon

Industrial visit at Mungi Engineers Pvt. Ltd was conducted for third year of Mechanical engineering students. An industrial visit was conducted as part of the engineering subject '**Fluid Power and Control Lab**' for live operation of hydraulic and pneumatic presses to understand various manufacturing processes and operations on press machines. During visit students were guided by Prof. Y.B.Chaudhary and Mr.Kadam N.V

Name of the Event

Industrial Visit to Tushar Udyog, Nashik.

Date:- 19/04/2024

Time:- 10:00 AM

Industrial visit was organized for second year students of mechanical engineering department at Tushar Udyog, Ambad, Nashik for practical exposure of subject Machine Shop. Students have gone through different

aspects of Casting Process and also other systems such as VMC, CNC working during visit. Dr. P. C. Shete, Mr. N. S. Gaikwad, Mr. S.P.G Gangave, Mr.I.R. Ikde guided students through visit.



Name of the Event

Industrial Visit of B.E. Mechanical Div. A & B is organized at **Seva Automotive Private Limited, A-23, MIDC, NICE Area, Opp. Prakash Bakery, Satpur, Nashik -422 007.**

Date:- (A) 06/10/2023

Time:- 10 AM

Final year students of the Mechanical Department visited to the Seva automotive to understand the practical aspect of the subject Dynamics of Machinery. Subject

teachers Dr S.P. Mogal & Mr. D.V. Kushare guided the students of B.E. (A) & (B) division through the visit.

During the visit students understand the procedure for balancing and alignment of automobile wheel.

3. Expert Talk /Webinar

Name of the Event

Seminar on “Industry readiness for R & D Dept., Quality Control Dept. and Project Dept”

Speaker - Mr. Gaurav Bairagi (Alumni 2015 batch), Associate Engineering, Whirlpool India Ltd., Pune.

Mr. Vishal Patil (Alumni 2016 batch), Trainer, Sopan Infotech., Surat, Gujarat.

Date–17/02/2024

Time – 11.00 am

A seminar on “Industry readiness for R & D Dept., Quality Control Dept. and Project Dept” was conducted in the Department of Mechanical Engineering on 17th February 2024 in which our alumni Mr. Gaurav Bairagi of 2015 batch and Mr. Vishal Patil of 2016 batch explained the requirements of various departments of Industry viz. Research & Development Dept., Quality Control Dept., Project Dept., etc. They also explained the functioning of different departments of the industry and way of working culture of industry. They also interacted with the students and answered to all the queries of the students. Head of Department, Dr. A. B. Kakade felicitated Mr. Gaurav Bairagi & Mr. Vishal Patil.

Students of alumni association, Mr. Gaurav Rayate, Mr. Jiten Shardul, Mr. Nachiket Deore and Ms. Yogita Junagare have coordinated the programme. Dr. S. J. Suryawanshi gave vote of thanks



Name of the Event

Seminar on ‘Financial Assistance for Start-up’

05/04/2024, Friday,

10:30AM

Department of Mechanical Engineering along with ED & Start-up cell organized expert talk on ‘Financial Assistance for Start-up’. Session was delivered by Mr. Rajendra Birari, Director, CNC Academy, Nashik. During this session resource person first elaborate key areas where mechanical students should focus to start their venture. Also details about different government agencies which support start-ups at initial stage through funding were delivered. Students get idea about funding assistance through different government channel to initiate start-up. Session was planned by Head of Department Dr. A. B. kakade and Ed & Start-up Cell Coordinator Dr. A. A. Kapse. It was executed by departmental coordinator Mr. R. S. Thakare



Name of the Event& Speaker

Seminar on “Preparation strategies for MPSC examination”

Speaker - Mr. Vijay Khodake, PSI (Police Sub-Inspector), Govt. of Maharashtra

(Alumni of 2018 batch)

Date – 19/04/2024

Time – 11.00 am



A seminar on “Preparation strategies for MPSC examination” was conducted in the Department of Mechanical Engineering on 19th February 2024 in which our alumni Mr. Vijay Khodke of 2018 batch explained the the importance of Preparation of Competitive Exams and their Syllabus for successful career in the field of Government Sector. He also gave the tips and steps to be followed for to achieve their goal to our students. He also interacted with the students and answered to the queries of the students regarding the how to study for Competitive Exams with Engineering Academics.

Students of alumni association, Mr. Gaurav Rayate, Mr. Jiten Shardul, Mr. Nachiket Deore and Ms. Yogita Junagare have coordinated the programme. Dr. S. J. Suryawanshi gave vote of thanks.

4. Technical Activities

Name of the Event

Student achievement in MSIC

Date –26/01/2024

Mr. Vedant Pingale, Mr. Chaitanya Thakare, Mr. Rohit Mahajan and Mr. Kunal Patil have presented idea titled ‘Design of Solar Powered Two-Wheeler Electric Charging System’ in Maharashtra Student Innovation Challenge Competition, organized by Maharashtra State. They have won the competition from Nashik District and selected for State Level Maharashtra Student Innovation Challenge Competition and received certificate of Rs 1 Lakhs for implementation of idea from Guardian Minister Hon. Dadaji Bhuse on the occasion of Republic Day.



Name of the Event

A National level technical event **“TECH FEST 2024**

Date: 12 & 13th April 2024

Student Association of KBT College of Engineering organized the National-level technical event **“KBT TECH FEST 2024”** on 12 & 13th April 2024. Under KBT Tech Fest, the Mechanical department organized MAD FOR CAD (2D & 3D Drawing) event on 13th April. For the event total 52 students participated. Dr. A. B. Kakade, HOD (Mech.) welcomed all participants. Principal Dr. S. R. Devane & Vice-Principal Dr. V. M. Birari sir motivated students & gave best wishes to all participants



5. Other Activities

Name of the Event

FDP on **“Engineering Consultancy Services: Opportunities and Challenges”**

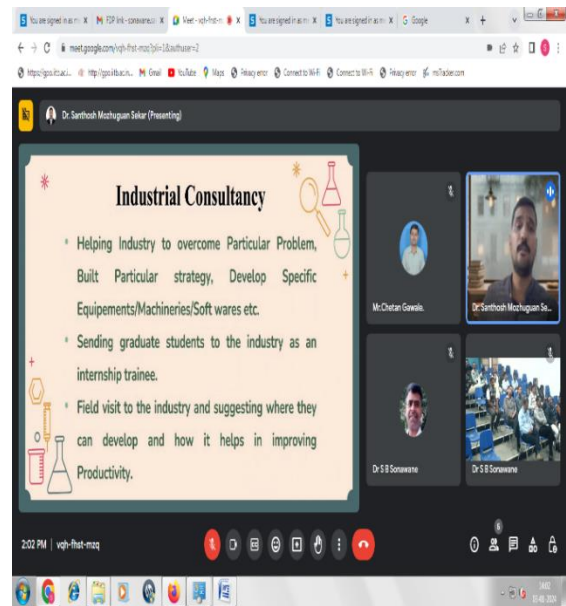
Date –03/02/2024

Time – 10.00 am – 5.00 pm

Mechanical Engineering Department of KBTCOE has organized faculty development program on ‘Engineering Consultancy Services: Opportunities and Challenges’ on 3rd January 2024. The objective of this FDP is to create awareness about opportunities and challenges in engineering consultancy services and motivate faculty members of department to accelerate consultancy activities. Three sessions have been organized in this FDP. Prof. Upendra Bhandarkar, Associate Dean (R&D),

Department Of Mechanical Engineering

IIT Bombay elaborated consultancy opportunities in HVAC, CFD, steel, cement, manufacturing and process industries. In particular he has described the consultancy opportunities in absorption-based chillers, waste recovery systems, central heating, heat pipe, heat pump, electronics cooling, CFD for pump and turbine blade design. He has also explained the consultancy projects currently working in his department. Mr. Nitin Wagh, Director, Chirayu Mat-Tech conducted session on 'Consultancy Opportunities for faculty members in Energy Audit field'. He has talked on energy manager and energy auditor examinations conducted of BEE, Govt. of India. He has explained the procedure for conduction of energy audit and shared his valuable experiences to the audience. Dr. Santosh Sekar, UCSI University, Malesia has described the importance of research and consultancy activities and frontier areas of innovation. Particularly he has concentrated on opportunities in energy materials, semiconductors, structural components, AI and IoT.



Name of the Event

One day workshop on “Hands on Training program on 3D-Printing Technology”.

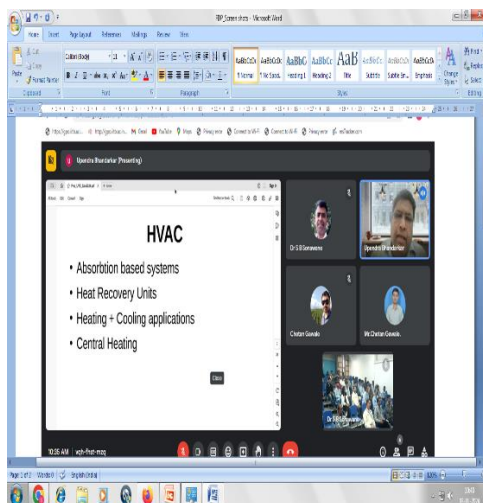
Monday 26th Feb. 2024

Time- 10.15am to 4.00 pm

A one day workshop on “Hands on Training program on 3D-Printing Technology” was organized by Student’s Development cell of MVPS, KBT College of Engineering, Nashik in association with Board of Student’s Development, SPPU, Pune on 26/02/2024

Prof. N. K. Kharate, Student development officer, welcomed the subject experts, Principal, Vice-Principal, & all the participants for the workshop. Inauguration of the workshop was done by Dr. V.M. Birari (Vice-Principal, MVPS’s KBT COE, Nashik). During inauguration session, Dr. V.M. Birari shared his views about the importance of 3-D printing technology for manufacturing as well as business sector. Head of Mechanical Engg. Dept. Dr. A. B. Kakade during his speech emphasized on the need of 3-D printing as a additives manufacturing technology.

In the first session, Mr. Chinmay chaudhari and Mr. Ninad Gaikwad, shared their views about the basics of 3-D printing technology,



applications of 3D-Printing technology and opportunities in 3D-printing technology.

In the second and third session, they explained the different components and working of 3-D printing machine. Actual training was provided to the students on 3-D printing machines. During this sessions, students prepared small components on their own. 95 students were benefited from the hands on training session.

At last vote of thanks was proposed by Prof. Manoj Patil



Name of the Event

Value added course on “CNC Programming: Elevating Skills Through Hands-On Training ”

27th Feb to 9th March 2024

3.00 pm to 5.00 pm

The Department of Mechanical Engineering organized a Value added course on “CNC Programming: Elevating Skills Through Hands-On Training” for BE students. The above

course provided participants with a comprehensive understanding of CNC machining fundamentals. Throughout the course, students delved into the intricacies of CNC programming languages like G-code and M-code, mastering the art of interpreting complex engineering drawings and blueprints. They honed their skills in tool selection, speed optimization, and tool path generation, ensuring efficient machining operations. With hands-on experience, learners became adept at setting up and operating various types of CNC machines, applying safety protocols diligently. Advanced topics such as multi-axis machining and parametric programming were explored, broadening their expertise. Quality control measures and inspection techniques were thoroughly studied, emphasizing the importance of precision in CNC machining. By the end of the course, participants were well-prepared for industry certifications, equipped with the knowledge and skills to excel in CNC programming and machining careers.

All sessions were led by Mr. Sandesh Raut from CNC Academy Nashik. Event coordination was managed by Dr. S. Y. Pawar, Dr. P. C. Shete, and Mr. D. V. Kushare. Additionally, all staff members of the Mechanical Engineering Department contributed their support, thereby ensuring the success of the event.





Speaker: Mrs. Neena Ramani, Director, Versatile Academy, Nashik.

All staff member of Mech.Engg.Dept have also supported and made this event possible

Name of the Event

One day Workshop on “Lifeskills”

13th March 2024,
10.00 am to 4.00 pm

Department of Mechanical Engineering organized a one day workshop on “ Lifeskills ” for the students in SE and TE. The objective of workshop is to enhance the different lifeskills of the students. Participants will come across detail exposure to different lifeskills such as Meditation, Yoga and Stress management. Participants will also get insights about handling the different situations related to lifeskills as well as career opportunity in this domain. The event spanned over one day and two session details of which are as follows:

Session1:

Topics: Meditation and Yoga

Speaker: Mr. Sameer Ghuge, Iyengar Yoga practitioner, Masters in Yogashastra, Nashik.

Session 2

Topic: Lifeskills



04/04/2024 to 26/04/2024

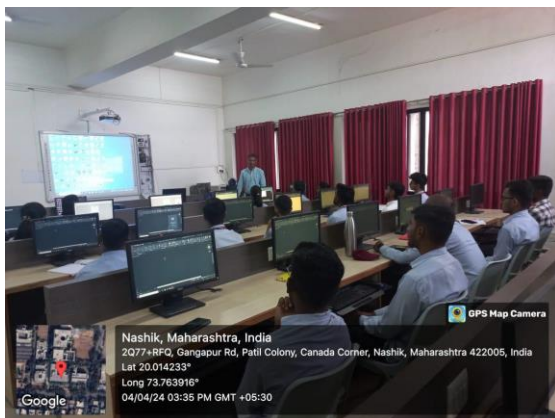
Name of the Event

Value Added Program on ‘Mastering AutoCAD from Basics to Advanced’

04/04/2024 to 26/04/2024

Value added Program on ‘Mastering AutoCAD from Basics to Advanced’. was

conducted by the Department of Mechanical Engineering on 4th-26th April 2024. During this program students got all basic and advance insights about AutoCAD software including hands- on experience of basic tutorials of industrial drawings. Mr. Prashant Pawar was resource person for the program which was coordinated by Mr. Darshan Kulkarni and Mr. Nitin Lokare from the department. During the concluding session Head of Department Dr. A. B. Kakade guided students about the importance of modern tool usage for seeking jobs in industry



Name of the Event

Parent meet held on 06/04/2024

Date – 06/04/2023

Time – 10.30 am

Department of Mechanical Engineering organized Parents-teachers meet on 6th April 2024. The purpose of the meeting was to have conversation with the parents on different points like activities conducted in the department during the semester, placement activities, examinations etc. The Meeting was conducted in hall B-202 of Mechanical Engineering Department. The meet was attended by 50 parents of SE, TE and BE Mechanical class. For this meeting, Dr. S. R. Devane (Principal, MVPS'S KBTCOE Nashik), Dr. A. B. Kakade (HoD, Mech), faculty and parents of the student were present for the meet.

Prof. M. S. Patil welcomed all the parents and dignitaries for the meeting. Dr. A. B. Kakade briefed about the activities conducted by the department in the last and current semester. Dr. S. R. Devane welcomed the parents and shared the plans of the institute. Class coordinators and mentors discussed the progress of the students with the parents. Dr. A. B. Kakade and all faculty members cleared the doubts of the parents and students during question asked by the parents. Prof. M. S. Patil coordinated the activity and proposed the vote of thanks.





Name of the Event

Farewell ceremony of last year
Mechanical Engineering students

Date: 29/04/2024

Time: 05:00 PM

Department of Mechanical engineering of MVPS's KBT College of Engineering has organized farewell ceremony for final year students on 29/04/2024. Head of Department, Dr. A. B. Kakade delivered welcome speech for the event. Principal Dr. S. R. Devane & Vice-Principal Dr. V. M. Birari guided final year students regarding their future career. Many students shared their experience of last four year. Prof. P. S. Tile co-ordinated the event.



Name of the Event

Alumni Meet 2024 News

Date-15thJune2024

Time – 10.00 am

Alumni Meet of First (1999-2003) and Second (2000-2004) batch of Dept. of Mechanical Engg., Dept. of Computer Engg., Dept. of Instrumentation and Control Engg. And Dept. of Sugar Technology was organized on 15th June 2024 at 10.00am onwards in MVPS's KBT College of Engineering Campus on the occasion of Silver Jubilee Year celebration. It was a reunion of alumni coming from Delhi, Hyderabad, Mumbai, Pune, Nagpur, Nashik etc. on the occasion of Silver Jubilee Year Celebration. The alumni meet is conducted in order to reconnect with the Alumni and celebrate their success and various achievements. A special welcome was extended to the First (1999-2003) and Second (2000-2004) batch of Dept. of Mechanical Engg., Dept. of Computer Engg., Dept. of Instrumentation and Control Engg. And Dept. of Sugar Technology on the pretext of completion of Silver Jubilee year (25years) for 1999-2003 batch and for entering into the Silver Jubilee year (25 years) for 2000-2004

Department Of Mechanical Engineering

batch. Dean Alumni, Dr. A. B. Kakade welcomed all the dignitaries and mentioned the importance and agenda of this Silver Jubilee year Alumni meet 2024 to all during his welcome speech. Principal, Dr. S. R. Devane welcomed all the dignitaries with Plant sapling and mentioned that alumni are the valuable stake holder of the department, their contribution is essential for growth of the department and the institute. He also appealed all the alumni to contribute to the institute through any of the means i.e. Industry sponsored lab, MOU, Expert talk, Internship, Placements, Project work, Motivational talk, Curriculum design, etc. for the students. Vice-Principal, Dr. V. M. Birari presented the institute report highlighting the various milestones reached in the last 25years.He also narrated the journey of institute upto NAAC A+ (Cycle 1), NBA and NAAC A++ (Cycle 2) accreditation. He also appealed all the alumni to come together through such platforms and make groups among themselves to carry out different activities for the upliftment of the students of the institute.

Adv. Shri. Nitin Thakare, Sarchitnis, MVP Samaj during his speech appealed all the alumni to contribute to the institute through all the means they can do. He also shared that alumni of our institute should come forward to contribute for the institute like alumni of higher educational institutes like IITs, NITs and other Govt. Institutes.

Felicitation of alumni was done by hands of Hon'ble dias. Each Alumnus was felicitated by Memento. After Inauguration of Alumni Meet the next session of introduction and sharing their journey of success.

Mr. N.S. Gaikwad
Newsletter Coordinator

Then there was tree plantation programme arranged by NSS team of institute. Representative of Mechanical, Computer, Instrumentation and Control, Sugar Technology Dept. planted one tree each in the college campus. Vote of thanks was given by President of Alumni Association Mr. Pravin Shelke.



Dr.A.B. Kakade
Head of Department