



MECH NEWSLETTER

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

Department Of Mechanical Engineering

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Mech Newsletter

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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 MoUs 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 & society at large of the news, including relevant announcements & update that we believe are important to them. However, this newsletter is also a valuable tool for bolstering morale, promoting unity, team spirit, motivating & rewarding achievements of KBTCOE, Nashik. This college Newsletter has started from January 2017 and to be published every semester.

Vision of the Institute

To be Internationally accredited, Multidisciplinary, and Multi-collaborative institute working on technology enabled platform fostering innovations and patents through state-of-art academic system designed by highly qualified faculty for the development of common masses at large

Mission of the Institute

To educate and train common masses through undergraduate, postgraduate, research programs by inculcating the values for discipline, quality, transparency and foster career and professional development for employment thereby contributing to the development of society to the development of society.

Vision of the Department

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 Department

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.

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

Following students of Mechanical Engineering have been placed in “Placed in Bosch Ltd” with CTC 4.0 LPA.

1. Mr. Deep Patel
2. Ms. Nishant Bundelkhandi
3. Mr. Dhananjay Budhavant
4. Mr. Suyash Sonawane
5. Mr. Yash Kapure
6. Mr. Girish Jadhav

Following students of Mechanical Engineering have been placed in “Techno force and Right Tight Fasteners Pvt. Ltd.” with an annual CTC of 4.0 LPA.

1. Mr. Amey Kadam
2. Mr. Aditya Handore
3. Mr. Aniket Karmase
4. Mr. Gaurav Kothawade
5. Mr. Yashodeep Khairnar
6. Mr. Aniket Lawand

Following students of Mechanical Engineering have been placed in “Faurecia” with an annual CTC of 5.5 LPA.

1. Mr. Ghuge Bhushan Namdev
2. Ms. Badgujar Vaishnavi Jagdish

Following students of Mechanical Engineering have been placed in “Hive Minds” with an annual CTC of 3 LPA.

1. Ms. Patil Gaurav Umesh
2. Ms. Vedant Manoj Pingale

2. Industrial Visit

Name of the Event

Visit to NMC’s pumping station at Water Treatment Plant, Nilgiri Baag.

Date.: - 27th September 2023

Time: - 10 am – 12 noon

As per syllabus of course – Turbomachinery, students need to visit a pumping station. Students of Final Year BE (Mechanical) program visited Nashik Municipal Corporation’s pumping station at Water Treatment Plant, Nilgiri Baag having capacity 50 MLD. The objective of the visit was to help student understand practical aspects of pumping system such as construction, working and control. Course teacher Dr. S. P. Awate and Mr. P. S. Tile guided the students during the visit along with Mr. N. P. Magar.

Name of the Event

Industrial Visit to Narang Cold Storage,
Nashik

Date:- 29/09/2023

Time:- 10:30 AM



Narang groups are contributing their best to bridge the gap between the demand and supply and serve the society & our country. Being one of the largest providers of complete cold chain services in Central India, all sections of business models are catered by Narang group. From farm to fork there are lot of members & levels of the society involved to make it possible. Final year Mechanical Engg. students, 86 in number have visited the plant under the subject Heating, Ventilation, Air conditioning and Refrigeration in which they learnt about the working of cold storage plant under the guidance of Dr. S. B.Sonawane, Prof. S. J. Suryawanshi and Mr. N. S. Bagal.



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

(B) 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.



Name of the Event

Visit to Hydroelectric Power Plant, Karanjavan, Tal. Dindori, Dist. Nashik

Date:- 17th October 2023

Time:- 10 am – 4 pm.

As per syllabus of course – Turbomachinery, students need to visit a Hydroelectric Power Plant (HEPP). Students of Final Year BE

(Mechanical) program visited HEPP commissioned at Karnajvan Dam, Tal. Dindori, Dist. Nashik having capacity of 3 MW. The objective of the visit was to help student understand practical aspects of Hydraulic Turbine system such as reservoir, penstock, turbine, draft-tube and control system. Course teacher Dr. S. P. Awate and Mr. P. S. Tile guided the students during the visit along with Mr. N. P. Magar.



Name of the Event

Industrial Visit of T.E. Mechanical Div. A & B is organized at **Nash Robotics Satpur, Nashik -422 007.**

Date.: - Div. (A) 20/10/2023

Div. (B) 20/10/2023

Time.: - 11:00 A.M.

In order to gain practical insights into the Digital Manufacturing Lab subject, Third-year students from the Mechanical Department visited Nash Robotics in Satpur, Nashik. The visit was facilitated by Dr. S.Y. Pawar and Dr. P.C. Shete, who are subject teachers for T.E. (A) and (B) divisions. The students had the opportunity to explore modern manufacturing trends, principles of robotics, and automation concepts during their visit.



Name of the Event

SE Industrial Visit at Nashik Thermal Power Station

Date.: - 28/11/2023 to 29/11/2023

Time.: - 11:00 A.M.

Industrial visit at Avdhoot Technocrats, Ambad, Nashik was conducted for second year Mechanical engineering students. Visit was conducted as part of curriculum for course Engineering Materials & Metallurgy to provide insights about heat treatment processes and surface hardening treatments. During visit students were guided by Mr. N. S. Gaikwad and Mr. A. S. Mogal.



3. Expert Talk/ Webinar

Name of the Event

Seminar on “Automated Multivegetable transplanter”

Speaker - Mr. Akshay Ohol (Lead Engineer, John Deere Pvt. Ltd., Pune)

Date.: - 04/08/2023

Time.: - 10.00 A.M.

A seminar on “Automated multivegetable transplanter” was conducted in the

Department of Mechanical Engineering on 4th August 2023 in which Mr. Akshay Ohol (Lead Engineer, John Deere Pvt. Ltd., Pune) explained about the TIFAN 2024 competition of SAEINDIA to be held at Rahuri Maharashtra. He appealed to all the students to participate actively in this competition and take the advantage of technical support to be provided by mentor team of John Deere India Pvt. Ltd., Pune. He also interacted with the students and answered to the queries of the students. Head of Department, Dr. A. B. Kakade felicitated Mr. Akshay. SAE Coordinator Prof. P. S. Tile mentioned the benefits of SAEINDIA membership to the students. Prof. S. J. Suryawanshi gave vote of thanks.





Name of the Event

Seminar on “Preparation strategy for selection in CDS and SSB exams”

Speaker - Mr. Ritik Bhadage (Lieutenant, Indian Army)

Date.: - 01/09/2023

Time.: - 11:00 A.M.

A seminar on “Preparation strategy for selection in CDS and SSB exams” was conducted in the Department of Mechanical Engineering on 10th March 2023 in which our alumni Mr. Ritik Bhadage of 2022 batch explained the various opportunities in defence sector. He has also explained the detailed procedure to apply for such exams to the students. He has also explained the detailed examination procedure of SSB selection. He also interacted with the students and answered to all the queries of the students. Head of Department, Dr. A. B. Kakade felicitated Mr. Ritik. Students of

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



Name of the Event

Seminar on “Project Management”

Date – 21/09/2023

Time – 2.00 P.M.

A seminar on “Project Management” was conducted in the Department of Mechanical

Engineering on 21st Sept. 2023 in which our alumni of 2007 batch Mr. Sachin Patil, Deputy General Manager, Project Management, Reliance Industries Ltd., Mumbai discussed the overall process of Project Management in the industry. He also motivated our final year students to become industry ready and also emphasized on importance of Planning about everything right from their final year Project to Financial Planning also to advance in their career for better future. He also answered to all the queries of the students related to Project Management. He also interacted with the students and answered to the queries of the students regarding the entrepreneurship and design software. Dean Alumni and Head, Mechanical Engineering Dept. Dr. A. B. Kakade felicitated Mr. Sachin Patil. All staff and students of the department were present for the programme. Prof. S. J. Suryawanshi has given vote of thanks.



4. Technical Activities

Name of the Event

ISHRAE Student Chapter Installation Ceremony

Date: - 21/10/2023

Time – 10.30 A.M.

ISHRAE Student Chapter Installation Ceremony of our Institute namely MVPS'S KBT College of Engineering was carried out at Dept. of Mechanical Engineering on 21st Oct. 2023. The ISHRAE installation ceremony is about taking oaths and assigning the duties to the members. Mr. Govind Nair, President, Mr. Ashfaq Kagdi, President Elect, Mr. Madhusudan Gaidhani, Installation Officer & Immediate past president, Mr. Aniket Chaudhary, Student activity chair, Mr. Pravin Kamale, Member, Mr. Amar Grover, Member, Ishrae Nashik Chapter. were the chief guest for the ceremony. Dr. A. B. Kakade, Head Mechanical Engineering Dept. during his speech mentioned about various ISHRAE student activities as well as benefits of the ISHRAE Student Chapter for student as well as institute. Dr. S. R. Devane, Principal, MVPS's KBT COE Nashik during his speech mentioned that students should actively participate in the activities of Ishrae chapter and get the real exposure to the industry. Mr.

Govind Nair, President, Ishrae Nashik Chapter during his speech mentioned the importance of Ishrae membership to all the students as well as encouraged all the students to take part in different activities of Ishrae. Mr. Madhusudan Gaidhani gave oath to all the student committee members. President, Mr. Rohan Adke, President Elect. Mr. Vishal Aher, Secretary Mr. Aditya Bagul, Treasurer Mr. Gaurav Ahire and CWC members Mr. Vaishnavi Badgujar, Mr. Vishal Gupta, Mr. Vedant Pingale. He also guided the students about all the student activities run under Ishrae student chapter and appealed all the students to take the benefit of all the activities carried out under Ishrae student chapter. After the Oath ceremony, a technical talk was delivered by Mr. Suresh Didmishe, Director, Blue Planet Eco-tech Pvt. Ltd., Nashik on Basics of Heat Transfer to all the participants present in the meeting.



Name of the Event

Ishrae AQuest 2023 Quiz competition

Date:-20/12/2023

Time – 11.00 A.M.

AQuest 2023 Quiz competition was arranged by Ishrae Nashik chapter in Department of Mechanical Engineering department in which 6 number of teams 2 students from MVPS's KBT College of Engineering, 2 students from K. K. Wagh College of Engineering and 2 number of students from S.N.D. College of Engineering were present in the competition. Mr. Suresh Didmishe, Mr. Madhusudan Gaidhani, Mr. Aniket Chaudhary from Ishrae Nashik Chapter were present for this competition. In this competition, students Mr. Aditya Bagul, Mr. Rohan Adke from MVPS's KBT College of Engineering, Mr. Soham Rawalgaonkar, Ms. Sanika Patil, K. K. Wagh College of Engineering and Mr. Yash Deshmukh, Mr.

Jayeswh Patil from S.N.D. College of Engineering have participated in the quiz. The team of Mr. Aditya Bagul, Mr. Rohan Adke from MVPS's KBT College of Engineering scored highest i.e. 142 out of 200 marks in the competition while the team of Mr. Yash Deshmukh, Mr. Jayeswh Patil from S.N.D. College of Engineering scored 140 out of 200 marks. Both the teams were sent to the next round of Aquest competition at zonal level. Mr. Shivaji Kale, coordinator of Ishrae student chapter, K. K. Wagh College of Engineering and Dr. Satish Suryawanshi, Coordinator of Ishrae student chapter, MVPS's KBT College of Engineering coordinated the quiz competition.



5. Other Activities

Name of the Event

Department Advisory Board Meeting

Date – 22/07/2023

Time – 11:00 A.M.

Department Advisory Board meeting of Mechanical Engineering for academic year 2022-23 held on 22nd July 2022 (Saturday) at 11.00 A.M. in the Department of Mechanical Engineering.

HOD Dr. A. B. Kakade, NBA Coordinator Dr. S. P. Mogal, Dr. V. C. Shewale, Industry-Institute Interaction Cell Coordinator Dr. S. Y. Pawar, Industry representatives Mr. Sayaji Sonawane, Mr. Yash Kapure, Alumni representative Mr. Ajay Katore, Academician Dr. C. D. Mohod, Parent representative Mr. Jagdish Badgujar, Student representative Nachiket Deore, Vaishnavi Badgujar, Rutuja Gojare alongwith all faculty members were present for the

meeting. In this meeting head of the department presented the activities of the department during the academic year 2022-23. NBA coordinator briefed about the actions taken by the department as per instructions from DAB members in the last DAB meet. Further in the meeting Curriculum gap, skillsets required for employability, FDP/Workshops for faculty members, Emerging trends in Mechanical Engineering were discussed. Dr. S. Y. Pawar expressed vote of thanks.



Name of the Event

Induction program of TE & BE (Mechanical Engineering Students)

Date – 25th July 2023

Time – 10:00 AM

Induction program was organized for TE & BE students in order to acquaint the students with the various activities, planning and resources available in the department for the overall development of the students. Following sessions have been covered during induction program

1. Introduction to revised curriculum of TE & BE
2. Guidelines about final year Project.
3. Selection of Honor courses for TE
4. Activities under Student Chapters (SAE, ISHRAE, MESA).
5. Emerging trends in Mechanical Engineering and Career Opportunities

In this program, Head of Dept. Dr. A. B. Kakade informed about the objectives of the Induction program and informed all students about department academic policies. Dr. S. Y. Pawar & Mr. D.V. Kushare during their speech mentioned about the revised curriculum of third year and final year engineering. Dr. A. A. Kapse guided final year students about details of project selection and explained its execution process. Dr. S. B. Sonawane guided about honor course on Elective Vehicle. Mr. P. S. Tile shared various benefits of SAE membership as well as activities under SAE and MESA student chapters for students. Mr. S.J. Suryawanshi explained various benefits as well as activities conducted under ISHRAE student chapter. Dr. S. P. Awate during his presentation shared the emerging trends in Mechanical Engineering as well as Career Opportunities. Mr. M. S. Patil welcomed all the guest and proposed vote of thanks.



Name of the Event

P. A. C. Meeting

Date – 28/07/2023

Time – 04:00 P.M.

PAC meeting of Mechanical Engineering for academic year 2023-24 held on 28th July 2022 (Friday) at 4 P.M. in the Department of Mechanical Engineering.

HOD Dr. A. B. Kakade, IQAC Coordinator Dr. S. P. Mogal and Prof. V. V. Shinde, PAC Members Dr. Y. P. Patil (Instru. & Control), Prof. T. S. Pawar (Information Technology), Prof. D. P. Birar(Engg Science), Prof. L.C. Sontakke (MBA) and Members from Mechanical Engg. Dept. was present for the meeting. In this meeting, Head of department Dr. A.B. Kakade discussed about the agenda of PAC meeting. Dr. S.P.Mogal has briefed about the DAB meeting discussion in which department has taken the approval of curriculum gap of subjects HVAC and DOM

for BE 2019 pattern. External PAC members suggested some valuable insights about curriculum and academic monitoring. Discussion happened about academic calendar, curriculum gap, conduction of online/offline workshop, value added courses, internship allotment. Prof. V. V. Shinde concluded the meeting with vote of thanks.



Name of the Event

SE Induction Program

Date: - 01/09/2023

Time: -10:00 AM

SE induction program 2023 was conducted in the Department of Mechanical Engineering today. During the program an introductory session was conducted by Head of department Dr. A. B. Kakade. He guided students about all resources available, facilities provided, and activities conducted for betterment of students. Prof. S. J. Suryawanshi and Prof. P. S. Tile addressed students about professional bodies and student chapters. Prof. R. S. Thakare addressed the curriculum of SPPU. Mr. M. N. Adke, training and placement officer, enlighten about training and placement activities. The session on 'The Power of Positive Thinking' was conducted by Ms. Rupa Shinde.





Name of the Event

Expert Session on “Guidance for final year student’s projects and career path”

Date: - 15th September 2023

Time: - 10:30 AM

An expert session for guidance to final year students regarding their projects and career paths and future opportunities was organized by the Department of Mechanical Engineering.

Dr. A.B.Kakade, Head Mechanical Engineering and Ms. Shrushti Shinde, Registrar inaugurated the session. Mr.Shrikant Ahirrao (Director, A. S. Enterprises) was invited as an expert for the session. He shared his experience and guided the students regarding project planning, assessment etc. Speaker also guided the students regarding their career path and shared the future opportunities available in different job sectors. More than 100

participants actively participated in the session and took benefit of same. Project Coordinator Dr. A. A. Kapse proposed the vote of thanks.



Name of the Event

Two Days Workshop on “**Hands-on Training using Ansys for Industrial Applications**”

Date: 22nd & 23rd Sept. 2023

Time: First session: 10.45 am to 12.15 pm

Second session: 1.00 pm to 3.00 pm

Two days’ workshop was organized by Department of Mechanical Engineering

intends to provide the practical exposure in the domain of CAE and build the foundation for research among the students

Dr. V. M. Birari (Vice Principal), Dr. A. B. Kakade (HOD) and Mr. Susheel Pote (Invensys CAD, Nashik) inaugurated the workshop. Dr. V.M. Birari (Vice Principal) addressed importance of such workshop for students. Dr. A. B. Kakade (Head of Department) shared the details regarding usefulness of the workshop for the students in the future. Prof. Kharate N.K (coordinator of the workshop) shared the objectives, scope, important of the workshop and the details regarding topics to be covered in workshop.

During first session of the workshop, Er. Susheel Pote focused on the various basics of the CAE. During second session, hands on training were given to the students using Ansys with the help of different industrial case studies.

More than 70 participants were actively participated in the workshop and took benefit of the same. Coordinator Prof. N. V. Lokare proposed vote of thanks



Name of the Event

Hands on training

Date: 23/09/2023

Time: 10:00 A.M.

Department of Mechanical Engineering in association with Nimali Engineering services organized one day workshop on 'Hand on Training' for third year student under subject Skill Development. During this Mr. K. N. Gadekar, largest fleet owner of Nashik, guided students about preventive and breakdown maintenance of Forklift engine followed by actual assemble of forklift engine. Students of third year got actual hands-on experience on assembly and calibration of Internal Combustion Engine. Head of department Dr. A. B. Kakade, course coordinators Mr. M. S. Patil and Mr. R. S. Thakare were present during workshop. Mr. A. N. Shinde coordinated the whole activity





Name of the Event

Value Added Program on 'AutoCAD Drawing & Drafting'

Date: 17/10/2023 to 28/10/2023

Time: 10:00 A.M.

Value added Program on 'AutoCAD Drawing and Drafting' was conducted by the Department of Mechanical Engineering on 17th-28th October 2023. During this program students got all basic 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. Rahul Thakare 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

One Day Workshop on "Soft Skills"

Date: 26th October 2023

Time: First session:10.30 am to 12.00 Noon

Second session: 1.30 pm to 3.00 PM

One day workshop was organized by Department of Mechanical Engineering to inspire and mentor students regarding soft skills. Dr. D. D. Lokhande (Education Officer), Dr. S. R. Devane (Principal), Dr. V. m. Birari (Vice Principal), Dr. A. B. Kakade (HOD) and Mrs. Monalisa Jain (Educational Entrepreneur, Motivational Speaker and Counselor, Nashik) inaugurated the workshop. Dr. S. R. Devane (Principal) addressed importance of such workshop for students. Dr. V. M. Birari (Vice Principal) shared his views regarding soft skills. Dr. A. B. Kakade (Head of Department) and Prof. M.S. Patil (coordinator) shared the details regarding topics to be covered in workshop. During workshop, sessions on soft skills were conducted by Mrs. Monalisa Jain (Educational Entrepreneur, Motivational Speaker and Counselor, Nashik) More than 95 participants were actively participated in the workshop and took benefit of same. Coordinator Dr. S. P. Mogal proposed vote of thanks.



Name of the Event

Parent Meet in Mechanical Engineering Department

Date: 28th Oct. 2023

Time: 10:30 AM – 01:00 PM

Prof. M. S. Patil, Parent meet coordinator welcomed Head of Dept. and all the parents. Head of Dept., Dr. A. B. Kakade presented different activities carried out in the first semester of academic year 2023-2024.

He also appealed all the parents to give suggestions during the parent-teacher meet. Mrs. Rupa Shinde, Student Counselor during her speech emphasized on the importance and benefit of healthy communication between parent and his ward. She told the parents not to force their wards against their will as every child is having individual qualities, which others don't have. So, every child is different. Also, parents should listen to their wards.

Mr. Sunil Birari, Parent representative during his speech suggested that more expert sessions on entrepreneurship and start-ups should be arranged for the students. This will definitely help the students to start their own start-ups. Ms. Khardikar, Parent representative suggested that attendance message of the students should be sent to the parent's group on regular basis. Head of Dept. Dr. A. B. Kakade assured that from the next semester regular message about the attendance of their wards will be communicated through WhatsApp groups as well as through phone calls also. Lastly, Prof. M. S. Patil, parent meet coordinator, concluded the program with vote of thanks.



Name of the Event

T& P organized Aptitude Workshop in association with GTT

Date: 26/12/2023 & 29/12/2023

Time: 10:00 A.M.

Students of Mechanical Engineering Department completed four days Aptitude Workshop in association with GTT. 47 students of TE Mechanical and 45 students of BE Mechanical were present in the workshop



Mr. N.S. Gaikwad
Newsletter Coordinator

Dr.A.B. Kakade
Head of Department

