Maratha Vidya Prasarak Samaj's







Udoji Maratha Boarding Campus, Near Pumping Station, Gangapur Road, Nashik
An Autonomous Institute Permanently affiliated to Savitribai Phule Pune University

KBTCOE NEWSLETTER 2024-25

Department of Mechanical Engineering

MECHANICAL NEWSLETTER: Dec 2024 Vol:8 Issue:1



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 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

To be the center for excellence and center 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

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

- To prepare technocrats that can satisfy the need of mechanical and allied industries.
- To develop critical thinking, problem solving skills, research aptitude and career and professionalism among the students.
- 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

Students of Mechanical Engineering Department
 Batch 2023-24 was selected Bosch Ltd.

Mr. Aditya Bagul	
Mr. Suyog Patil	
	Placed in Bosch
Mr. Abhimanyu Kanade	Ltd with CTC
	4.5 LPA
Mr. Prasad Avhad	4.J LFA



2.Industrial Visit

Department of Mechanical Engineering

Name of the Event

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

Date and Time of Event

20th August 2024, 10 am – 12 noon.

Event Description

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

Name of the Event

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

Date and Time of Event

Wednesday 25th Sept. 2024 (1:30 pm to 3:00 pm)

Dr. S. P. Awate guided the students during the visit along with Mr. N. P. Magar.



Event Description

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



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

Date and Time of Event

 30^{th} September 2024, 10 am – 4 pm.

Event Description

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 guided the students during the visit along with Mr. N. P. Magar and Mr. N. S. Bagal.



Name of the Event

Visit to Nash Robotics and Automation Pvt. Ltd.

Name of the Event

Date and Time of Event

Date: TE (A) & TE (B), 8^{th} October, 2024 ,1.30 pm to 5.00 pm.

Event Description

An industrial visit to Nash Robotics and Automation Pvt. Ltd, Nashik was organized for TE Mech students under the subject Digital Manufacturing Laboratory. The objective of the visit was to help student understand various advanced manufacturing processes used in Industries. The visit was coordinated by Dr.P.C.Shete, Mr.S.N.Palhe & Mr. Y.R.Ikade



Name of the Event

Visit to Nashik Thermal Power Station, Eklahare

Date and Time of Event

Date: SE (A), 17th October, 2024 2.00 pm to 5.30 pm SE (B), 18th October, 2024 2.00 pm to 5.30 pm

Event Description

An industrial visit to Nashik Thermal Power Station, Eklahare was organized for SE Mech students under the subject Engineering Thermodynamics. The objective of the visit was to help student understand construction, working, merits, demerits and economics of Thermal Power Plant working on Rankine cycle. The visit was coordinated by Dr. A. A. Kapse, Dr. D. B. Uphade, Mr. M.N. Shinde and Mr. A. N. Shinde.



Name of the Event

Visit to Sanjit Moulds Pvt. Ltd, Ambad, Nashik

Date and Time of Event

Date: TE (A & B), 23th October, 2024 1.00 pm to 3 pm

Event Description

An Industrial visit to Sanjit Moulds Pvt. Ltd was organized for TE Mech students under the subject Mechatronics. The objective of the visit was to help student understand brief concepts types of mechatronics. Students got the valuable insights about working principle of PLC's and micro controllers. The visit was coordinated by Prof. Y.B.Chaudhary and Prof. V.V.Shinde & Mr.



Name of the Event

Visit to R & D Therm India Pvt.Ltd, Satpur, Nashik

Date and Time of Event

Date: SE (B), 22ndOctober, 2024 2.00 pm to 5.00 pm SE (A), 23th October, 2024 10.00 am to 1.00 pm

Event Description

An industrial visit to R & D Therm India Pvt.Ltd, Satpur,was organized for SE Mech students under the subject Engineering Materials and Metallurgy. The objective of the visit was to help student understand various NDT such as radiography test, ultrasonic test and dye penetrant test used for various applications. The visit was coordinated by Mr.N. S.



Gaikwad, Mr. D. V. Kushare, and Mr. A. S. Mogal.

3.Expert Talk /Webinar

Name of the Event Seminar on "Building Simulation Software - A Green Building Initiative

Date-25/09/2024 Time - 11:00 am

Event Description

Ishrae Nashik Chapter in association with Ishrae student chapter of MVPS'S KBTCOE Nashik have arranged a seminar on "Building Simulation Software - A Green Building Initiative" on 25/09/2024 (Wednesday) at 11.00am in Dept. of Mechanical Engineering, MVPS'S **KBTCOE** Nashik. Students of SVKM Institute of Technology, Dhule viz. Mr. Harshit Mahajan, Ms. Sakshi Ahire, Ms. Trupti Wagh were the speakers for the session. Dean R&D, Dr. S. B. Sonawane has felicitated the speakers of today's session. In this seminar, speakers from SVKM Institute of Technology have given the insights of IES VE simulation software used for calculating the intensity of light in Lux. They have also presented practical readings of intensity of light in Lux using Luxmeter. Finally, they have shown the comparison of readings obtained from IES VE Simulation software and readings practically from Luxmeter. They also shared their experience of presenting a paper in Scopus Indexed Journal based on their work. On this occasion, Mr. Ashfaq Kagdi, President of Ishrae Nashik Chapter guided all the ISHARE student members from MVPS'S KBTCOE Nashik as well as from Matoshree College of Engineering, Nashik & K. K. Wagh College of Engineering, Nashik and encouraged them to participate in such sessions arranged by Ishrae Nashik Chapter for the benefit of students. Dr. S. J. Suryawanshi, Student Activity Chair, Ishrae Nashik Chapter as well as Student Chapter Coordinator of MVPS'S KBTCOE Nashik has also mentored the students about different initiatives going to be taken by Ishrae Nashik Chapter in academic year 2024-25 for all the Ishrae student members. He also appealed to all the students to take benefit of all such activities especially arranged by Ishrae Nashik Chapter for Ishrae student members from Nashik Chapter. The session was concluded by vote of thanks by Dr. S. J. Suryawanshi.



Name of the Event

Seminar on "Preparation strategies for MPSC/UPSC examination

Event Description

A seminar on "Preparation strategies for MPSC/UPSC examination" was conducted in the Department of Mechanical Engineering on 11th Oct. 2024 in which our alumni Mr. Shubham Ekhande of 2019 batch explained the importance 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 to achieve their goal to our students. He also interacted with the students and answered to the queries of the students regarding study for Competitive Exams with Engineering Academics. Prof. S. J. Suryawanshi gave vote of thanks.







chief guest for the ceremony Dr. A.B. Kakade, Head of 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 KBTCOE Nashik during his speech mentioned that students should actively participate in the activities of Ishrae chapter and get the real exposure to the industry. Dr. Kavita **Dhanawade**, Ishrae Zonal chair West Zone, during her 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. **Dr. Kavita Dhanawade**, gave oath to all the student committee members. President Mr. Vishal Aher, President Elect. Ms. Rimsha Maniyar, Secretary Mr. Kshitij Chaudhari, Treasurer Mr. Yashodhan Kulthe and CWC members Mr. Devashish Kokate, Mr. Omkar Bhavar, Mr. Ganesh Chavan. She 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 Dr. Kavita Dhanawade, Ishrae Zonal chair West Zone on "Why to join Ishrae" to all the participants present in the meeting. Vote of thanks was given by Dr. S. J. Suryawanshi, Ishrae Staff Coordinator & Student Activity chair of Ishrae student Nashik chapter.

Name of the Event

ISHRAE Student Chapter Installation Ceremony

Event Description

ISHRAE Student Chapter Installation Ceremony of our Institute namely MVPS'S KBT College of Engineering was carried out at Dept. of Mechanical Engineering on 22st Aug. 2024. The ISHRAE installation ceremony is about taking oaths and assigning the duties to the members. **Dr. Kavita Dhanawade**, Ishrae Zonal chair West Zone, **Mr. Ashfaq Kagdi**, President of the Ishrae Nashik Chapter, **Mr. Varun Tiwari**, President-Elect of the Ishrae Nashik Chapter, **Dr. Anita Borade**, Treasurer of the Ishrae Nashik Chapter. Were the





4. Technical Activities

Name of the Event

Ishrae AQuest 2024 Quiz competition round II

Event Description

AQuest 2024 Quiz competition round II was arranged by Ishrae Nashik chapter in Mechanical Engineering Department in which 6 number of teams (2 students in each team) from six student chapters working under Ishrae Nashik Chapter viz. MVPS's KBT COE Nashik, K. K. Wagh COE Nashik,

Matoshree COE Nashik, Guru Govind Singh COE Nashik, SVKM Institute Dhule and Matoshree Polytechnic College Yeola were present in the competition. Mr. Suresh Didmishe from Ishrae Nashik Chapter conducted this competition. Mr. Ashfaque Kagdi, President of Ishrae Nashik Chapter was present for ths competition. In this competition, students Mr. Abhishek Patil and Mr. Ganesh Chavan from MVPS's KBT COE Nashik were at the first position and students Mr. Ujiwal Lonari and Mr. Roshan Mevada from K. K. Wagh COE Nashik were at the second position in the competition. Mr. and Mr. Uday Chaudhary were present from Mechanical Engineering Dept. Dr. S. J. Suryawanshi, Student Activity Chair, Ishrae Nashik Chapter and Student Chapter Coordinator of MVPS's KBT College of Engineering coordinated the quiz competition



Name of the Event

Induction program of TE & BE (Mechanical Engineering Students)
Friday 12th July 2024 (10:30 am to 12:30 pm)

Event Description

The induction program was conducted by the Department of Mechanical Engineering for Third year and Final year students. The aim of the program was to create awareness among students about new activities to be performed in the current semester. The objective of the induction Programme was to introduce students to activities in the current semester, their importance, the necessity of participation, etc. The programme was anchored by Dr. Suyash Y. Pawar, and he also gave brief information about the programme. The programme was coordinated by Dr. D. B. Uphade, and he also gave a brief introduction about the schedule of the programme. Head of Department Dr. A. B. Kakade welcomed students. He also gave a presentation about activities in the department. Training and Placement officer Mr. Mahesh N. Adake has given importance to readiness by students for placement activities. Dr. Suyash Y. Pawar presented the importance of internship activities for third-year students and the schedule of internship activities for this semester. Prof. Yuvraj B. Chaudhary elaborated on the structure of the third-year syllabus, and he also mentioned N.S.S. and Sports activities. Dr. D. B.

Uphade presented the structure of final-year students for teaching-learning and examination schemes. The department runs two chapters, namely ISHRAE and SAE. Dr. S. J. Suryavanshi presented brief information about these chapters. He also said that student participation for these chapters may lead to good placement opportunities. The presentation on opportunities for mechanical engineering undergraduate students in higher education, public service undertakings, government, and private sectors. Dr. S. B. Sonawane has explored the opportunities in the research and development sector as well as recent trends in mechanical engineering. The programme was concluded with a vote of thanks; Dr. Suyash Y. Pawar presented it





5. Other Activities

Name of the Event Visit to KKW Idea Lab, Nashik

Date and Time of Event

Date – 15th July. 2024

Event Description

Faculty visit was organized by mechanical engineering department to KKW idea lab, Nashik. During visit seen the various facilities related to design thinking provided by AICTE Idea Lab to the students.HOD Dr. A.B. Kakade, Mr. R.B. Jagtap, Mr. R. M. Ghogare, Mrs. V. V. Ahire, Mrs. G. M. Shirsat Mr. P. P. Mogal were present during visit



Name of the Event

Department Advisory Board Meeting

Date and Time of Event

27/07/2024

Event Description

HOD Dr. A. B. Kakade, IQAC Coordinator Dr. S. P. Mogal, Industry-Institute Interaction Cell Coordinator Dr. S. Y. Pawar, Dean R&D Dr. S. B. Sonawane, Industry representatives Mr. Sayaji Sonawane, Mr. Vinod Patil, Mr. Rajendra Birari, Alumni representative Mr. Abhinav Shinde, Mr. Rushikesh Pawar, Academician Dr.C. D. Mohod, Parent representative Mr. Pravin Jadhav, Staff representative Dr. V. C. Shewale, Dr. A. A. Kapse, Dr. D. B. Uphade, Student representative Om Birari,

Prathamesh Khelukar, Tanmayee Shinde, Pranav Khairnar, Om Jadhav were present for the meeting. In this meeting Head of the department Dr. A. B. Kakade presented the activities of the department during the academic year 2023-24. IQAC coordinator briefed about the actions taken by the department as per instructions from DAB members in the previous DAB meet. Further in the meeting, agenda for the academic year 2024-25 viz. Skillsets for Industry Readiness, Internship opportunities for students, FDP/STTP for faculty were discussed. Dr. S. Y. Pawar expressed vote of thanks.









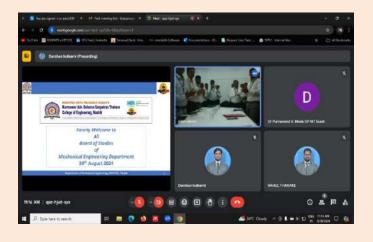
Name of the Event

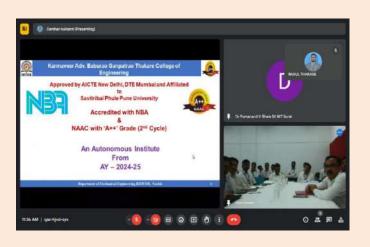
First BoS meeting of Dept. of Mechanical Engineering Date -30/08/2024

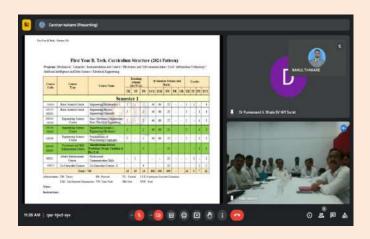
Event Description

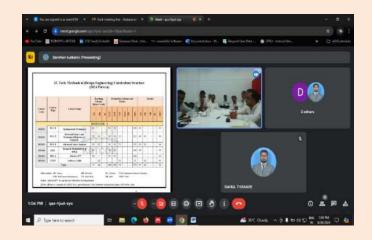
First BoS meeting of Dept. of Mechanical Engineering was carried out on 30th Aug. 2024. Dr. A. B. Kakade, Chairman, Dr. P. V. Bhale, Subject Expert and Professor, Dept. of Mechanical Engineering, SVNIT Surat, Mr. Abhinav Shinde, Alumni Representative and Manager, Mahindra and Mahindra Nashik, Dr. P. J. Pawar, Member Special course, Head of Robotics and Automation Dept., K K Wagh Institute of Engineering Education and Research, Nashik, Dr. D. B. Uphade, Dean academics, MVPS's KBT COE Nashik, Dr. S. P.

Mogal, COE (Controller of Examination), MVPS's KBTCOE Nashik were present in the meeting. Mr. M. S. Patil has given the welcome speech at the start of meeting. Dr. A. B. Kakade, Head of Dept., felicitated all the guests with token of love and gratitude. Each faculty member has given his/her introduction during the meeting. Dr. A. B. Kakade, Head of Dept., has given the brief presentation of the department. Then the structure of first year B.Tech. and its syllabus detailing, structure of first year M.Tech. and its syllabus detailing as well as Second Year, Third Year and Final Year Syllabus structure of B.Tech Courses was presented by Head of Dept. Dr. A. B. Kakade sir in front of all the BoS members in which syllabus of First year B.Tech. and First year M.Tech. was discussed and finally approved in the meeting in presence of all BoS members. Finally the meeting was concluded with the vote of thanks by Mr. M. S. Patil.









Name of the Event

Value Added Program on 'AutoCAD Drafting'

21/08/204 to 20/09/2024

Event Description

The Department of Mechanical Engineering conducted a successful 'AutoCAD Drafting' value-added program to enhance the technical competencies of engineering students. From August 21 to September 20, 2024, the Department of Mechanical Engineering conducted the course,

drawing in over 22 participants eager to enhance their understanding of a crucial CAD tool in the industry. Mr. Darshan Kulkarni and Mr. Nitin Lokare from the department coordinated the program, with Mr. Prashant Pawar serving as the resource person. During the concluding session, Head of Department Dr. A. B. Kakade informed students about the importance of modern tool usage in seeking industry employment.







Name of the Event

Induction program of M. Tech 1st year (Design Engineering)

Date and Time of Event

Saturday 21th Sept. 2024 (10:30 am to 12:00 pm)

Event Description

The induction programme was conducted by the Department of Mechanical Engineering for M. Tech 1st year students. The aim of programme was to create awareness among students about new activities to be performed in the current semester. The objective of the induction Programme was to introduce students about the autonomy structure and syllabus. The programme was coordinated by Mr. D.V.Kushare, and he also gave brief information about the programme. Head of Department Dr. A.B. Kakade presented department information like establishment of department, various laboratories and other infrastructure available and all about achievements of institute.



Name of the Event

Induction program of SE (Mechanical Engineering Students)

Date and Time of Event

Wednesday 25th Sept. 2024 (10:30 am to 12:00 pm)

Event Description

The induction programme was conducted by the Department of Mechanical Engineering for Second year students. The aim of programme was to create awareness among students about new activities to be performed in the current The objective of the induction semester. Programme was to introduce students to activities in the current semester, their importance, the necessity of participation, etc. The programme was anchored and coordinated by Mr. Sandeep N. Palhe, and he also gave brief information about the programme. Head of Department Dr. A. B. Kakade welcomed students. He also gave a presentation about activities in the department. Training and Placement officer Mr. Mahesh N. Adake has given importance to readiness by students for placement activities.

Mr.Sandeep N.Palhe welcomed HOD Dr.A.B.Kakade, Counsellor Ms.Rupa Shinde

mam and all staff and students. He also elaborated the importance of induction activities for students. Infirst part of session Dr.A.B. Kakade presented department information like establishment of department, various laboratories and other infrastructure available, placement statictics, achievements of students, recruiters all about achievements of institute.

In second part of session Ms.Rupa Shinde mam discussed and explained about positive thinking and the benefits of it in our life with some real life examples.she also enlighten about the difference between Mind and Brain activities. She encouraged and motivated students by discussing various real life incidents.Finally session was ended with telling some positive thoughts. The programme was concluded with a vote of thanks by Mr. Sandeep N. Palhe.





Name of the Event

One-day Workshop on "Personality Development"

Date and Time of Event

Date: 25th September 2024

Time: 11.00 am IST

Event Description

Engineering Student Association Mechanical (MESA) of the Department of Mechanical Engineering of MVPS's K.B.T College of Engineering, Nashik organized a one-day workshop on "Personality Development" for second-year students on Wednesday, 25th September 2024 at 11.00 am IST. Ms. Monalisa Jain, Educational Entrepreneur, Motivational speaker & counselor, Nashik was invited as a resource person for the workshop. Head of the Department Dr. A. B. Kakade welcomed the guest. Principal Dr. S. R. Devane & Vice-Principal Dr. V. M. Birari motivated to conduct workshop. Mr. M. S. Patil worked as a coordinator.



Name of the Event

Parent meet held on 05/10/2024

Event Description

Department of Mechanical Engineering organized Parents-teachers meet on 5th October 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 55 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), Mr. Mahesh Adke (TPO), 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. Mr. Mahesh Adke briefed about the placement oppurtunities in core sector and in software industries. He also added that different trainings are conducted for TE and BE students. 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

Three Days' Faculty Development Program on Hands-on CFD Simulation Using ANSYS: Bridging Theory with Practice

Date and Time of Event

12th to 14th December 2024, 10 am to 5 pm

Event Description

The program was jointly organized by Department of Mechanical Engineering, ANSYS Inc., ARK InfoSolutions Pvt. Ltd. and InvensysCAD Solutions Pvt. Ltd.



Computational Fluid Dynamics (CFD) has emerged as the most useful simulation tool for solving problems pertaining to thermal and fluid engineering. Ansys provides the environment wherein CFD simulation can be performed. The program was aimed to impart hands-on training to participants so that they will be able to practically perform CFD simulations using ANSYS. Thirty participants from various institutes attended the program.



EDITORIAL TEAM

Editor-in-chief: Dr. A. B. Kakade

Editor: Mr. N. S. Gaikwad

Co-Editor: Yashodhan Kulthe (BE)

Aditi Jadhav (TE) Saurabh Joshi (SE)