



M.I.T B'TECH

MECH-ZINE 2020



MAHARASHTRA INSTITUTE OF TECHNOLOGY

14TH EDITION

Mechanical Engineering Magazine

Forward From Editorial Team:

The mechanical engineering department highlights the achievements and initiatives of the mechanical engineering department. The team wants to bring the reader the dimensions of excitement that our student and teacher calculate together with the great moment shared among academics as well as outside.

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Content

1. Inauguration of MESA-2020
2. Online Workshop/Seminar Attended by Students.
3. 2 Days Online Workshop.
4. Internship a special feature at MIT.

INAUGURATION OF MESA 2020

The inauguration of MESA 2020 and celebration of Engineer's day took place on 15th of September, because of corona pandemic the event done online. Which was the graced by the presence of the chief guest Dr.A.J.Keche, Prof. M.N.Farooqui, and President Mr. Madhav Sarada.

First of all Farooqui sir gives introduction of MESA. After that President Madhav sharing a few words emphasizing on the individual's development and team spirit amongst the students. And gives the MESA preview. After him editorial and creative head of Mechzine Swapnil Sonawane gives the Mechzine overview. He said mechzine is highlights the achievements and events conducted by the mechanical department.

After that the chief guest congratulated the upcoming team of MESA 2020 and extended his best wishes towards them. Later final year student Vaidehi gives speech on occasion of Engineers day. And the faculty member Kazi sir sung "subhanallah" one of the famous Bollywood song.

Here voice had grabbed attention of a great strength of students and faculty members attending the inaugural function. The event had a combined efforts of faculty advisor Prof. M.N. Farooqui and the MESA committee members.

The presence of head of department and the faculty members brought lots of encouragement and enthusiasm amongst the students. The vote of thanks of the inaugural function was delivered by the final year student Pooja Varade.

The followings students are the office bearers of MESA for the academic year 2020-2021

| Name of the Post | Students name |
|-------------------------|----------------------|
| President | Madhav Sarda |
| Vice president | Vaidehi Brahmapurkar |
| Treasurer | Pratik Waghmare |
| Sports Secretary | Sahil Shaikh |
| | Bhushan Pachare |
| Cultural Secretary | Jagdish Patil |
| Ladies Representatives | Pooja Varade |
| | Vaishali Aher |
| Creative Head | Yuvraj Singh |
| | Harshal Oza |
| Photography Head | Suraj Suryawanshi |

WEBINARS/ WORKSHOP

| Date | Name of Webinar | Organised by |
|----------------------------------|--|------------------------------------|
| 17th Aug to 16th Sept 2020 | "One month (90 hours) online Training course on "ANSYS". | CADCAM GURU, Pune |
| 21st Aug 2020 | "Competency step-I" | Skillmate Technologies, Pune |
| 30th Aug 2020 | "Industrial 'Experience' During Academics" | Pratik Bharti |
| 9th Sept. 2020 | "Importance of Industry Acceptable (Online) Projects in Placements" | CADCAMGURU Solutions Pvt Ltd |

WORKSHOP

Two-days online workshop on “Energy Efficient Buildings”

Day I : Session 1 [17/07/2020;11.30 am to 1.00 pm]

Mr.Aashu Gupta

Speaker for the first session of day one was Mr. Aashu Gupta, Managing Partner of Design Occupancy Services LLP, Jaipur.

The session started with welcome of guest followed by preamble of the two days online workshop on “Energy Efficient Buildings” by Dr.A.T. Autee, Faculty Advisor of ISHRAE Students Chapter of MIT(T) Aurangabad. Dr.A.J. Keche, Head of Mechanical Engineering Department, briefly told about the journey of the department and milestones achieved by the department in due course of time. Hon. Principal Dr.S.P. Bhosle, in his inaugural address, emphasised on the need of such workshops in Covid-19 Pandemic situation and welcomed the guests on the behalf of MIT family.

Mr Gupta in his talk during the session told participants about the need of the implementation of “Energy Conservation Building Code” in this era of worldwide energy crisis. Mr. Gupta elaborated the importance of applying these codes in regular practice and aware participants about the tangible and intangible benefits of the same. Session speaker also told the budding professionals about the career opportunities in this field and provided enough guidance to achieve the same. The session was largely appreciated by the participants.

Around 125 participants were present for the session.

Day I: Session 2 [17/07/2020;3.00 pm to 4.30 pm]

Mr.Prasad Kokil

Speaker for the second session of day 1 was Mr. Prasad Kokil, Managing Director of Sanjay Group of Companies, Aurangabad.

Session started with formal introduction of speaker and welcome of the guest. Mr.Kokil during his speech on "Design of commercial and industrial building in view of energy efficiency", focused on his very own idea that "Every science begins with philosophy and ends in Art". The session was very thought provoking and it gives a completely different perspective of looking towards buildings around us. The way speaker connected the ancient artistic monuments around us with science was amazing and He made participants aware that those were the Energy Efficient Buildings too! Session speaker, Mr.Kokil, connected the FIVE KPI"s (Key performance index),FIVE elements of energy balance and PANCHTATVAs in such a way that it will surely be practised by the professionals and budding students in years to come.

Around 110 participants were present for the session.

Day II: Session 1 [18/07/2020;11.30 am to 1.00 pm]

Dr. Sreepathi L.K.

Speaker of the session was Dr. Sreepathi L. K., Green Technology Consultant, Shimoga, Karnataka.

Session started with introduction to speaker and welcome of guest. Dr. Sreepathi, in his speech on Green Building-VIBHA, a case study gradually engaged the participants in the Success story of his own house VIBHA-The green building! During this journey speaker shared every minute details of the house. Dr. Sreepathi cleared every single doubt of participant, about how any building can become a GREEN BUILDING! Meticulously planned and executed VIBHA was even aired on International TV channels like “National Geography, Discovery” etc. and it is one of the places of attraction for the people!!

Around 120 participants were present for the session.

Day II: Session 2 [18/07/2020;3.00 pm to 4.30 pm]

Mr.A.V.Kulkarni

Speaker of the session was Mr.A.V.Kulkarni, a well-known industrialists from Kolhapur who is Managing partner of Anucool Engineering, Kolhapur.

Session started with the welcome of guest and introduction of speaker. Mr.A.V.Kulkarni, in his technical talk on “Vital role of cooling load estimation for integration of HVAC services in Green Building”, explained the fundamental processes involved in calculating the cooling load. During his speech speaker urged the students to understand the basic concepts during learning phase as student and keep the mind and brain open for all the knowledge available around us in any form and from any source. Mr. Kulkarni underlines the importance of learning by experience or Do It yourself (DIY)to the participants. Mr. Kulkarni demonstrated the cooling load estimation with the help of in-house built software using Lab View platform.

After the end of session, Valedictory Function of the work shop started at 4.30 pm sharp. The valedictory function was attended by Dr. N. S. Bhalkikar, Dean (Admission), Vice-Principal (Admin) Prof. M. S. Vaishnav, Dr.A.J.Keche Head of Mechanical Engineering Department, Faculty members, students, and participants. Participants gave their valuable live feedback about the two days online workshop. 6 participants from different institutes presented their views about the workshop.

After the feedback session, Mr. Amol Gambhir, President of ISHRAE Aurangabad SCH presented the summary of the two days online workshop on “Energy Efficient Buildings” wherein he told about the number of participants, summarized the sessions and briefly informed about the ISHRAE and benefits of ISHRAE membership. HOD, Dr.A.J. Keche lucidly delivered the concluding remarks about the two-day online workshop on Energy Efficient Buildings” and promised to host such type of knowledge enrichment programmers in future too! Dr.J.M. Kshirsagar, proposed the vote of thanks in very delightful manner. After vote of thanks the two-day online workshop on “Energy Efficient Buildings” ended.

INTERNSHIP

INTERNSHIP A SPECIAL FEATURE AT MIT



Dr. Ashok Keche
(HMED, MIT, Aurangabad)

The rise in global competition has promoted industries to have a talented and innovative workforce to gain a competitive edge. Developing an internship policy for students is an impactful strategy for creating this future talent pool for the industry. The industry is always on the lookout for students who are vibrant, energetic individuals and ready to accept challenges, attentive, with a good academic background, fast learners, open to learning even at work and more importantly possessing good communication skills. This will assist the students to develop their academic and career interests and their short and long-term goals through individual counseling and group sessions.

The curriculum of Dr. BAMU, Aurangabad has a unique feature of In-Plant Training (IPT). This is of 20 weeks duration which is mandatory for all the final year students (VIII semester). IPT enables every student to have a real time experience of the industrial scenario.

The purpose of IPT is to help students to choose the right career and to plan for programs and activities to enhance knowledge, skill, attitude and the right kind of aptitude to meet the manpower requirements of the Industry. The IPT is very good opportunity to learn under a different environment, but the gain is dependent on positive attitudes and approach to training, keenness and attitude of enquiry to learn of the trainee.

In some cases where students have an opportunity to work on research projects, they are benefitted with any patents, copyrights and/or journal publications as well. One of the direct impacts of IPT is the placement of student in the same industry or opportunity for higher studies in the same educational organization as IITs.