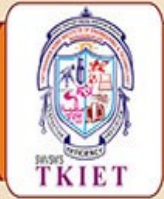


Shree Warana Vibhag Shikshan Mandal's



TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY



NBA ACCREDITED INSTITUTE



The Founder Chairman
Sahakar Maharshi
Late Shri Tatyasaheb Kore

MECH WORLD

• Bi-Annual News Letter

June 2019 – December 2019



INSIDE THE MECHWORLD ...

- Events organized by department
- Industry Institute Interaction Program
- Alumnus Interaction
- Workshop / Conference organized by department
- Workshop / Conference attended by faculty
- Students' / Staff Achievements
- Papers Published by Faculty
- Exam Performance of Students
- Department Achievements

Department of Mechanical Engineering



VISION

To become an academy of excellence in technical education and human resource development.

MISSION

1. To develop Mechanical Engineers of high repute with professional ethics.
2. To excel in academics and sustainable research in the field of Mechanical Engineering.
3. To facilitate higher studies, employability and entrepreneurship.
4. To promote vibrant industry - institute interaction
5. To nurture a sense of life-long learning, social responsibility and care for environment.

EDITORIAL COMMITTEE

Publisher

Dr. A. S. Todkar,
Head of Department

Editor in Chief

Prof. V. N. Mane



Hon'ble Shri Vinayraoji Kore
President,
SWVSM, Warananagar

Our Patron



Dr. Vasanti Rasam,
Administrative Officer



Principal's Desk

Dr. S. V. Anekar



It gives me an immense pleasure to share my views about MECH WORLD bi-annual news letter. The Mechanical department has been established in 1996 with intake capacity of 60 and now increased to 180. The department has maintained its own standard and discipline in technical education and got accreditation twice by NBA and once by NAAC. I hope this Bi - annual news letter will enable the students to know all activities carried out in the Mechanical department and enhance their knowledge.



HOD's Desk

Dr. A. S. Todkar



Dear Readers,
I am very happy to handover the seventh issue of MECH WORLD 2K19. The students and faculty of the department are sincerely participating in various activities organized at institute or at other places. It is heartening to see the sound performance of students during this part of the year. I offer best wishes for future activities. At last, I thank to the editorial team of MECH WORLD for their sincere efforts and I offer my best wishes to the readers of this newsletter.

Editor's Desk

Prof. V. N. Mane



Dear Readers,
Thank you all for your support and faith in MECH WORLD News Letter of Mechanical Engineering Department. We are glad for it and promise to do our best to improve the quality of education through different activities. Department made concrete plans for several activities every month. Department has conducted different activities during academic year 2019-20. MECH WORLD 2K19 is the reflection of all these activities. Before I conclude, I express my gratefulness to the different persons who extended valuable assistance to publish MECH WORLD 2K19.

About Department



- ⇒ Establishment year - 1996-97
- ⇒ Initial intake capacity - 60
- ⇒ Increased to 120 in the year 2010-11
- ⇒ Increased to 180 in the year 2019-20
- ⇒ Post graduation program in Design Engineering with intake capacity of 18 from 2010 - 11
- ⇒ Proposed Ph. D. research Centre

Highlights of the Department

- NBA Accredited in 2004 and in 2011
- NAAC Accredited in 2016
- Consistently above 90% final year results
- Placement of more than 50% eligible and aspiring students in reputed industries

- Highly experienced, proficient and devoted faculty
- Well equipped laboratories with latest softwares.
- MOUs with more than 15 reputed industries.
- More than 50% Industry sponsored and research projects.

Student Development Cells

- Mechanical Engineering Students Association (MESA)
- Career Development Cell (CDC)
- Industry Institute Interaction (III) Cell
- Training and Placement (T & P) Cell
- Entrepreneurship Development Cell (EDC)

Department Intake

| Sr. No. | Course | Intake Capacity |
|---------|--------------------------------------------------------|-----------------|
| 1 | Undergraduate B. Tech CBCS Pattern | 180 Seats |
| 2 | Postgraduate M. Tech. Mechanical Design Engineering | 18 Seats |

MESA INAUGURATION 2K19

MESA, 'Mechanical Engineering Students Association' organized the 'Inaugural function of MESA 2K19" on 29th of August, 2019. All the Mechanical Faculty, Students of SE, TE and BE were present for the program. On this auspicious occasion, we had Mrs. Dimple Gajwani, International Faculty, Art of Living, Kolhapur as the chair person on the dais. Head of Department Dr. A. S. Todkar, Faculty Adviser of MESA Prof. S. M. Gidaveer and all MESA office bearers were present on the dais. On this occasion, Association felicitated former office bearers 2018-19. Dr. A. S. Todkar addressed the students and shared information about the various activities to be conducted by MESA. He also advised students to get participate in activities of the MESA. After this, Chief Guest addressed the students. Mrs. Dimple Gajwani gave motivational and Inspirational speech to students. Mrs. Dimple Gajwani highlighted what are the benefits of Sudarshan Kriya and if we do daily, it increases energy level and calm state of mind, Reduced levels of stress (reduce cortisol - the "stress" hormone), Stronger immunity, Reduced cholesterol- Relief from anxiety & depression (mild, moderate and severe), Increased antioxidant protection, Enhanced brain function. She has explained breathing techniques.

This program was successfully conducted by MESA under the guidance and support of the Principal Dr. S. V. Anekar and head of THE department Dr. A. S. Todkar.



Dr. A. S. Todkar Felicitating Mrs. Dimple Gajwani, MESA faculty adviser Prof. S. M. Gidaveer and student coordinators were present on the dias.



Mrs. Dimple Gajwani addressing the Students

Parent -Teacher Association Meet Report



Dr. S. V. Anekar felicitating Chief Guest Mr. Sanjay Kulkarni



Dr. A. S. Todkar presenting department of mechanical Engineering

Parent Teacher Association Meeting of BE Mechanical Engineering students were arranged on 21st Sept. 2019. Total 42 no. of parents taken part in PTA meet. After welcoming the parents and guidance speech, BE rankers and campus placed students were felicitated by Chief Guest Mr. Sanjay Kulkarni, Alumni Mr. Santosh Patil, Principal Dr. S.V. Anekar and HOD Dr. A.S. Todkar. Prof. M.R. Todkar declared objectives of PTA meet. Principal Dr. S.V. Anekar gave brief information about PTA meet of final year students and need of parent's attention towards their child. Head of Department Dr. A.S.Todkar gave department presentation. Prof. R. T. Salunkhe shared information about Training and Placement activities. Mr. Santosh Patil, Alumni of Mech. Dept. (year 2000 pass out) expressed his views, do's and don'ts for students. He admired about the departments until development. Some parents expressed their opinions, views about the Institute and Department. Parent Chief Guest Mr. Sanjay Kulkarni, Menon Piston Ltd, expressed his suggestions for the development of department. Dr. N. S. Dharashivkar gave vote of thanks and at the meeting feedback forms were collected from parents which indicates satisfaction with respect to their ward's performance, about department and overall campus and transportation of institute.

ASTRO QUIZ COMPETITION



Groups Arrangement of quiz competition

Mechanical Engineering Student's Association organized ASTROQUIZ on 20th September 2019. 62 student's were participated in this event. The event consist three rounds. First round consist general science questions, second round consist question planetary science questions and various space exploration missions questions and third round consist modern physics questions.

GROUP DISCUSSION COMPETITION



Prof. K. D. Joshi and Prof. Mark Monis giving certificates to winners

Following Students were winners of this event:

| | | |
|---|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1 | Saurabh Kulkarni, Avinash Patil, Damini Sawant, Siddhi Mirajkar, Satyajeet Narale | 1 st Prize |
| 2 | Ashutosh Mahajan, Vivek Chothe, Pramod Bhosale, Aniket Jadhav, Raj Chaniyara, Siddharth Dhavare, Rushikesh Yadav | 2 nd Prize |
| 3 | Prasad Shinde, Makarand Patil, Shriharsh Patil, Omkar Bhalawane, Prasanna Deshmukh, Mahesh Ulhalkar, Siddharth Dhumal, Prashant Farakate | 3 rd Prize |

Mechanical Engineering Student's Association organized "GROUP DISCUSSION" event on 25th September 2019. Prof. K. D. Joshi and Prof. Mark Mounis were judge for this event. 78 students were participated.

Following topics were given for discussion -

370 act decision.

Is 75% attendance is mandatory for engineering students?

Flood disaster management.

Social media - Impact on Human behavior and society.

Is technology making us less human?

GST (Goods and Service Tax)

Cashless India.

Status of women in India.

Is Artificial Intelligence good for human?

Government policies in 2018-19.

Impact of technologies on job. Event Coordinator Mr. Shubham Ukande successfully conducted these program. Prof. K. D. Joshi congratulate to all participants, winners and encourage to participate in different activities conduct by association. Miss. Sakshi Sawant proposed Vote of Thanks.

Social Activity

| S. No | Activity Details | Date | No. of Students/ Faculty Participated | Outcome |
|-------|--------------------------------------------------------------------------------|------------|-------------------------------------------------------|------------------------------------------------------------------|
| 1 | Cleanliness drive at flood affected village Nilewadi | 21-08-2019 | NSS students of department and Prof. R. G. Kshirsagar | To reduce the contagion of diseases. |
| 2 | Distribution of essential material-kit for flood affected peoples of Shahuwadi | 31-08-2019 | NSS students of department and Prof. A. M. Patil | To enrich the feeling of compassion in students towards mankind. |

Paper Published by Faculty in National / International Journals

- 1) Prof. P. V. Mulik, ,Dr. Uday C. Kapale Prof. G. S. Kamble, “Comparative Study of Experimental and Theoretical Evaluation of Nocturnal Cooling System for Room Cooling for Clear and Cloudy Sky Climate”, Published by WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.
- 2) Pro. M. S. Sawant, “Investigation of combustion, performance Emission characteristics of gasoline engine operated on blend of gasoline with Ethanol and n – Butanol” presented paper in National Conference on Internal Combustion Engines and combustion (NCICEC -2019), KLETU, Karnataka.

Work shop Attended by the Faculty

- 1) Prof. S. S. Mahadik underwent training program on “First year engineering Induction Program” at SIT, Yadrav for three days from 17th to 19th June 2019.
- 2) Prof. A. V. Patil underwent faculty development program on “Assuring Success of Engineering Graduates” at RIT, Sakharale for one week from 25th November to 29th November, 2019.
- 3) Prof. R. T. Salunkhe underwent faculty development program on “Assuring Success of Engineering Graduates” at RIT, Sakharale for one week from 25th November to 29th November, 2019.

Training activities conducted

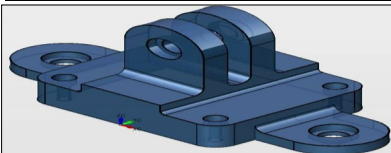
| Sr. No | Training Description | Class (SE/ TE/ BE) | Resource Person/ Company | Date & of days | No of students Registered | Average Attendance (%) | Outcome |
|--------|----------------------|--------------------|------------------------------------------------------------|--------------------------------------------------------|---------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1 | Soft skill training | TE all division | Rubicon, Pune | 20,21 & 22-08-19 (03 days) | 25 | 100% | Maximum conversion in campus selection. |
| 2 | Employability skills | TE | GTT Barclays- Mrs. Kajave Madam | 17 th & 18 th Sept.2019 (2 days) | 40 | 100 | To impart employability skills for placement |
| 3 | In-plant training | TE (A, B, C) | Small, medium and large-scale companies in nearby locality | 15 days starting as per convenience of company | 212 | 100% | To impart experience of industrial work culture and environment. To seek opportunity for industry sponsored project. |

Students' achievements and awards

| Sr. No. | Name of Student | Class | Achievements | | Date | Venue |
|----------------------------------------------------|-----------------|-------------|--------------------------------------------|--------------|-----------------------------|--------------|
| | | | Competition | Rank | | |
| Paper Presentation And Project Competitions | | | | | | |
| | Makarand Patil | B.E.-B Mech | Paper Presentation (Master Presenter 2K19) | Second Prize | 30 th Sept. 2019 | SIT, Yadrav. |

Workshop / Conference / Symposium / Contests Organized

| Sr. No | Event Name/Topic | Resource Person and Designation | Date | No. of Participants | Faculty In charge(s) |
|--------|------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|-------------------------------------------------|
| 1 | One-week Workshop on AVEVA PDMS | In house faculty, Prof. M S Dhuttargaon & Prof. S V Lingaraju | 22 nd July to 31 st July 2019 | 20 | Prof. M. S. Dhuttargaon & Prof. S. V. Lingaraju |
| 2 | Workshop on Basics of Metrology | Advance Measuring System, Kolhapur-Mr. Joshi -Training In-charge | 21 st , 22 nd , 24 th Sept 2019 | 26 | Prof. A. R. Shinge |
| 3 | Three days workshop on Recent Trends in Quality Management | Mr. Bhauso Deshmukh, Sr. Engineer at Shriram Foundry, Kolhapur | 23 rd , 24 th & 25 th Sept. 2019 | 38 | Prof. P. V. Kamble and Prof. M. S. Dhuttargaon. |
| 4 | Advanced Techniques in Metrology | Mr. Joshi-Engineer at Advanced Measurement Systems-Kolhapur | 19-07-19 | 100 | Prof. A. R. Shinge |



Industrial Visits / Study Tours

- 1) **25th Sept 2019:** Prof. M. R.Jadhav and Prof. R. T. Salunkhe successfully conducted industrial visit under Metallurgy subject for SY-A students at Mayura Steel, Kolhapur. Total 53 students attended the visit.
- 2) **27th Sept. 2019:** Industrial visit of TE-A was organized successfully at Prabha Enterprises, Kolhapur by Prof. R. G. Kshirsagar as a curriculum of Manufacturing Engineering. Total 62 students were present.
- 3) **30th Sept 2019:** Prof. R. G. Kshirsagar and Prof. P. B. Kadam successfully completed industrial visit of 60 SY-B students at Mayura Steel, Kolhapur for subjects Workshop Practice-III and Metallurgy.

Campus Placement Academic Year 2019– 2020

Batch 2018-19 (July to December)

| Sr. No. | Name of Company | No.of Students Selected | Name of Students | Salary P.A. | Criteria |
|---------|-------------------------------------|-------------------------|----------------------------------|-------------|----------|
| 1 | Bosch | 1 | Chaitanya Babar | 400000/- | 65% |
| 2 | Worley Parsons Mumbai | 1 | Hrushikesh Amane | 360000/- | 67% |
| 3 | Tata Consultancy Engineering | 2 | Suhas Doiphode, Amit Kamble | 400000/- | 60% |
| 4 | Kirloskar Brothers Ltd. Kirloskardi | 2 | Nitesh Chavan, Pradip Bhadvankar | 200000/- | 60% |
| | Total Selection | 6 | | | |

Batch 2019-20 (July to December)

| Sr. No. | Name of Company | No.of Students Selected | Name of Students | Salary P.A. | Criteria |
|---------|--------------------------------|-------------------------|-----------------------|-------------|-------------|
| 1 | Galaxy Surfactants Ltd. Mumbai | 1 | Metri Kedar Anil | 500000/- | 67% |
| 2 | Worley Parsons Mumbai | 1 | Pradyumna Sanjay Mane | 360000/- | 67% |
| 3 | Jaro Education, Mumbai | 1 | Makarand B. Patil | 1220000 | Open to all |
| | Total Selection | 3 | | | |

Results of University Examination

B. E. Rankers

| Sr. No. | Name of Student | % Marks | Rank |
|---------|---------------------------|---------|------|
| 1 | Mane Pradyumna Sanjay | 77.63 | I |
| 2 | Jadhav Vishal Vilas | 77.13 | II |
| 3 | Mulik Jyotsana Sambhaji | 75.5 | III |
| 4 | Shinde Aniket Jeevankumar | 74.88 | IV |
| 5 | Patil Sumit Vilas | 73.75 | V |

T. E. Rankers

| | | | |
|---|----------------------------|-------|-----|
| 1 | Kale Ananda Popat | 73.88 | I |
| 2 | Mane Onkar Prakash | 72.13 | II |
| 3 | Kalkhambkar Sachin Narayan | 71.63 | III |
| 4 | Chougule Sourabh Ravindra | 71.63 | IV |
| 5 | Kende Shrinath Uttam | 70.88 | V |

S. Y. B. Tech. Rankers

| | | | |
|---|------------------------|-------|-----|
| 1 | Patil Shivani Kuldip | 81.55 | I |
| 2 | Bandar Inzamam Iqbal | 80.77 | II |
| 3 | Borute Vinit Shrishail | 80.00 | III |
| 4 | Patil Pratik Balwant | 80.00 | IV |
| 5 | Bhosale Mandar Prakash | 79.74 | V |

Mr. Makarand Patil (B.E. Mechanical) selected with Highest Package

सकाल



वारणानगर : येथील मकरंद पाटीलचा सत्कार करताना डॉ. विनय कोरे, सोबत डॉ. बी. टी. साळोखे, डॉ. ए. एस. तोडकर, प्रा. पी. व्ही. कांबळे, प्रा. पी. आर. पाटील, प्रा. पी. एन. देशमुख आदी.

विद्यार्थ्यांला बारा लाखांचे पॅकेज

वारणानगर : येथील तात्यासाहेब कोरे अभियांत्रिकी महाविद्यालयाच्या मेकॅनिकल विभागातील मकरंद भरत पाटील या विद्यार्थ्यांची जारो एज्युकेशन (मुंबई) कंपनीमध्ये कॅम्पस इंटरव्ह्यूद्वारे निवड झाली. त्याला तब्बल बारा लाख दोन हजारांच्या वार्षिक पगाराची नोकरी मिळाली. विद्यार्थी मेहनत, होतकरू असून परिस्थितीशी दोन हात करण्याची ताकद त्यांच्याकडे आहे असे मत प्राचार्य डॉ. एस. व्ही. आणेकर यानी व्यक्त केले. महाविद्यालयातील मानांकन पात्र विद्यार्थी, कंपनीतर्फे होणाऱ्या इंटरव्ह्यू मध्ये सहभागी झाले होते. यशस्वी विद्यार्थ्यांचे अध्यक्ष डॉ. विनय कोरे, डॉ. वासंती रासम, प्राचार्य डॉ.एस.व्ही.आणेकर, डी. एस. ठोंबरे, डॉ. ए. एस. तोडकर आदींनी अभिनंदन केले.

Kolhapur, Kolhapur-Today
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Department Achievements

- More than 100 technical paper publications by Faculty in National and International journals.
- Five faculty awarded Ph.D. and Twelve faculty pursuing Ph.D. studies .
- Project group guided by Prof. GSK achieved first prize at ISTE convention during 30th and 31st January 2019 in Ahmadabad – Gujrat for the project titled “Rotating Solar Boiler”.

Departmental Library Facilities and online Journals

- **Books:** Number of Titles: 900
- **Online Journals:** Springer, Science Direct, NPTEL Video Lectures, ASTM Digital Library, J-Gate Journals.



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