

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**
January 2020 – June 2020



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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 eighth issue of MECH WORLD 2K20. 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 2K20 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 2K20.

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

Guest Lecture on Electrical Vehicles

MESA, 'Mechanical Engineering Students Association' organized Guest Lecture on "Electrical Vehicles" by Mr. Anand Thakar from CAD CAM Guru Pune on 15th of January, 2020. He elaborated so many information related to Electric Vehicles. These are the following benefits of Electric Vehicles.

- 1) Fuelling with electricity offers some advantages not available in conventional internal combustion engine vehicles. Because electric motors react quickly, EVs are very responsive and have very good torque. EVs are often more digitally connected than conventional vehicles, with many EV charging stations providing the option to control charging from a smartphone app.
- 2) Just like a smartphone, you can plug in your EV when you get home and have it ready for you to use the next morning. Since the electric grid is available almost anywhere, there are a variety of options for charging: at home, at work or on the road. By charging often, you may never need to go to a gas station again!
- 3) EVs can also reduce the emissions that contribute to climate change and smog, improving public health and reducing ecological damage. Charging your EV on renewable energy such as solar or wind minimizes these emissions even more. See the difference in emissions between a conventional vehicle and an EV using the calculator on the right. Learn more about how EVs reduce pollution and their lifecycle emissions.

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.



Mr. Anand Thakar addressing the students



Showing Animation of working of the battery

Guest Lecture on Latest trends in Recruitment

MESA, 'Mechanical Engineering Students Association' organized Guest lecture on “Latest trends in Recruitment, how to utilize academic time to build best profile which will be useful in getting selected incorporates, ethics and behaviour up gradation according to the industry” on 14th of January, 2020.

The Chief Guest for this function was Mr. Veeshwajeet Kashid working as an Application Architect working in Artificial intelligence from EXFOSOFTWARES, Pune (HQ-Canada). Around 180 students from SE and TE were attended this programme. Prof. P. J. Patil T&P Officer, Dr. N. S. Dharashivkar, MESA faculty Adviser and SY B. Tech and TE Students were attended this lecture.



T&P Officer Prof.P.J.Patil felicitating the chief guest



Mr. Veeshwajeet Kashid addressing the students

Report on Debate Competition

Mechanical Engineering Student's Association organized Debate Competition event for Students from F.E. To B.E. of all department on 6th February 2020.

Near about 60 students from FE to BE of all Department were participated. In this event, there was only one round from which first three groups were selected by the Judges & given rank to them as per their performance where remaining groups were eliminated. This event was conducted under the guidance of Event Co-ordinator MR. Rohit Patil. At the last of the event, Mr. Sujay Deshpande proposed the vote of Thanks. This program was successfully conducted by MESA.

Guest Lecture on Competitive Examinations

MESA, 'Mechanical Engineering Students Association' organized Guest Lecture on Competitive Examinations on 25th of January, 2020. The Chief Guest for this function was Mr. Mandar Deshpande and Mr. Shrinivas Patil (Excise Officer).

Around 150 students from SE and TE and BE were attended in this programme. Mr. Mandar Deshpande from GATE forum clearly explained about the difference between engineering semester exams and competitive exams. He simply describes about GATE “GATE is the GATEWAY to career”. He initially discussed the about benefits of the GATE on educational institutions and PSU s sectors. He clearly outlined on what are all the educational institutions (IITs, NITs and Reputed institutes) and foreign countries that accepts the GATE Score programmes for PG and PhD programmes .He also outlined about fellow programmes in management-IIMs and what are all IITs accept the GATE score.

Mr. Shrinivas Patil, Excise Officer, Maharashtra Government, listed out the competitive exams like as MPSC, UPSE, IAS and ESE(IES) etc. He clearly explained about the eligibility criteria for the same. He showed keen interest to help the students to crack the competitive exams. Mr. Pradip Khot proposed the vote of thanks.



Felicitation of Chief Guest Mr. Mandar Deshpande from GATE FORUM by Head of the Department Dr. A. S. Todkar, Mr. Shrinivas Patil is other dignitaries on the dies.

Mr. Shrinivas Patil, Excise Officer, Maharashtra Government addressing the students



Guest Lecture on Recent Trends in Machine Tools

MESA, 'Mechanical Engineering Students Association' organized Guest Lecture on “Recent Trends in Machine Tools” by IMTMA Technology centre Pune on 30th of January, 2020. The Chief Guest for this function was Mr. Nagraj Hamilpure, Executive Officer, IMTMA Technology Centre Pune.

Around 70 students from TE were attended in this programme. Mr. Nagraj discussed what the scenario of Machine tools in Current Market is. He highlighted about IMTMA Technology Centre and how this centre help the students to get jobs in reputed company. He explained how many courses conducted for the students for getting jobs, what is the fees structure of each courses and how recruiting the students by other companies.

He told IMTMA regularly conducts seminars and summits to keep the industry abreast with the latest technology, developments and best practices in the machine tool industry. He Highlighted Research and Development is an integral part of both the industry and educational institutions. On most of the occasion, they work independently and an attempt to bring both of these together is the IIIC initiative. The IMTMA-Institute Innovation Collaboration (III-C) hopes to bring industries and institutes willing to work on R&D projects on to a common platform.



Mr. Nagraj Hamilpure
highlighting about
IMTMA

Training activities conducted by the Department

Sr. No.	Title	Date	Funding	participant
1	AVEVA PDMS Workshop	3/02/2020		15

Work shop Attended by the Faculty

Sr No	Faculty Name	Workshop / FDP name	Organized by	Date	Duration
1	Dr. N. S. Dharashivkar, Dr. M. R. Jadhav, Prof. P. V. Mulik, Prof. A. R. Koli, Dr. P. J. Patil, Prof. S. V. Lingaraju	One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
		Three days workshop on Intellectual Property Rights.	TKIET Warananagar	25 Feb. 2020	3 Days
2	Dr. M. S.Dhuttargaon, Prof. P. B. Kadam, Prof. M. S. Sawant, Prof. V.V. Patil, Prof. A.M. Patil, Prof. S. S.Patil, Prof. A. S. Chavan, Prof. P. V. Kamble, Prof. R. G. Kshirsagar, Prof. M. V. Jadhav, Prof. P. N. Deshmukh	One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
3	Prof. G. S. Kamble, Prof. V. N. Mane	Three days workshop on Intellectual Property Rights.	TKIET Warananagar	25 Feb. 2020	3 Days
4	Prof. A. V. Patil,	Three days workshop on Intellectual Property Rights.	TKIET Warananagar	25 Feb. 2020	3 Days
		One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
		One day workshop on C & C++	IIT, Bombay, TKT	29 Feb. 2020	1 Day
5	Prof. S. S. Mahadik	One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
		Workshop on Technoeconomical Assessment of MSME	GIT, KhedRatnagiri	17 Feb. 2020	2 Days
		Three days workshop on Intellectual Property Rights.	TKIET Warananagar	25 Feb. 2020	3 Days
6	Dr.A.S. Todkar	Three days workshop on Intellectual Property Rights.	TKIET Warananagar	25 Feb. 2020	3 Days
		One day conference on Refrigeration	ASHERE,Kolhapur	22 Jan. 2020	1 Day
		One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
7	Prof. K.D. Joshi	One day workshop on C & C++	IIT, Bombay, TKT	29 Feb. 2020	1 Day
8	Prof.S. H. Patil	One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
		One day workshop on C & C++	IIT, Bombay, TKT	29 Feb. 2020	1 Day
9	Prof. P. R. Patil	Three days workshop on Intellectual Property Rights.	TKIET Warananagar	25 Feb. 2020	3 Days
		One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day
		One week STTP ON Vibration control of rotating machine	ADCET,Ashta	8 th jan to 12 th jan 2020	One week
10	Prof. M.R. Todkar	One week STTP on Electric and Hybride Vehicle Technology	ADCET, Astha	03-Jun-19	1 week
		One day workshop on TY Btech Mech. Engg. CBCS syllabus setting	TKIET Warananagar	17 Jan. 2020	1 Day

Paper Published by Faculty in National / International Journals

- 1) Dr. A. S. Todkar "Machining in high pressure coolant environment – strategy to improve machining performance: a review" international journal of manufacturing technology and management-science publication, Vol-33, Issue-6, pp-468-492. Jan 2020.
- 2) Prof. A. R. Koli, Prof. A. M. Patil, Prof. S. S. Patil, Prof. V. V. Patil, "Design and Experimentation of New Balancing Technique Based on the Jeffcott Rotor Model", International Journal for Research in Engineering Application & Management, Vol-06, Issue-03, June 2020, pp.-186-194, ISSN:2454-9150.

Students' achievements and awards

Sr. No.	Name of Student	Class	Achievements		Date	Venue
			Competition	Rank		
Paper Presentation And Project Competitions						
1	Mahesh C Ulhalkar, Prasad Shinde	B.E.-C Mech	Paper Presentation (Technosis 2020)	First Prize	20 th Feb. 2020	Department of Technology, Kolhapur
2	Mahesh C Ulhalkar	B.E.-C Mech	Paper Presentation (Quantum 2020)	First Prize	15 th Feb. 2020	DYP Technical Campus Talsande
3	Mahesh C Ulhalkar, Prasad Shinde	B.E.-C Mech	Paper Presentation (Parikrama 2020)	First Prize	3rd March 2020	Sanjivan college of Engineering, Panhala.
4	Sarat Krishna	SE-A Mech	PPT Presentation	First Prize	16 th Feb. 2020	DYPCET, Kolhapur
5	Prashik L. Walake	B.E.-C Mech	Paper Presentation	First Prize	7 th March 2020	AMGOI, Wathar
6	Sutar Aniket, Omkar Bhalavane	TE-A Mech	INDIAN KARTING CHAMPIONSHIP GOCART	Seventh Rank	6 th March 2020	NEXUS Motorsport Kolhapur

Campus Placement from January - June 2020

Sr. No.	Name of Company	Selection	Name of Students	Salary (L.P.A.)
1	TICB, Mumbai	1	Prasad Shinde	5.0
2	Bharat Forge, Baramati	2	Manish Mali, Abhijit Pakale	1.8
3	Continental India Pvt. Ltd. Pune	2	Saklen Mulla, Shubuum Mane	1.8
4	Cognizant	1	Suraj Ghatage	4.0
5	Qspiders Pune	5	Poonam Patil, Sanket Kulkarni, Prashik Wakale, Aniket Karande, Prashant Farakate	3.0
6	Joshi Jampala Engg. Pvt. Ltd. Satara	2	Adinath Patil, Vinay Melavane	2.4
7	Moonshot Services	5	Vishal Naikwadi, Shrirang Patil, Punam Patil, Pranil Gudale, Prathemesh Parit	4.5
		18		

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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