



'येथे बहुतांचे हित ।'

Marathwada Mitra Mandal's
College of Engineering

Department of Mechanical Engineering

"YANTRADNYA" NEWSLETTER ISSUE 4 | Jan2017

"We MECH everything with less energy and greater efficiency"

In this issue:-

- From HOD's Desk 2
- From Editor's Desk 2
- Departmental Activities & Achievements 3
- Add -On Courses Conducted 5
- ISHRAE Activities 6
- MESA Activities 7
- Guest Lectures Conducted 7
- Industrial Visits 8
- Faculty Achievements 9
- Workshops, Seminars and Conferences Attended by Faculties 10
- Faculty Publications 12
- Student Achievements 13

Credits: - Prof. P. V. Sawai
Prof. C.K. Dave

Vision And Mission of MMCOE

Vision:

TO ASPIRE FOR THE WELFARE OF SOCIETY THROUGH EXCELLENCE IN SCIENCE AND TECHNOLOGY.

Mission:

OUR MISSION IS TO

- **MOULD YOUNG TALENT FOR HIGHER ENDEAVOURS.**
- **MEET THE CHALLENGES OF GLOBALIZATION.**
- **COMMIT FOR SOCIAL PROGRESS WITH VALUES AND ETHICS.**
- **ORIENT FACULTY AND STUDENTS FOR RESEARCH AND DEVELOPMENT.**
- **EMPHASIZE EXCELLENCE IN ALL DISCIPLINES.**

From HOD's Desk

The goal of this newsletter is to keep you updated with developments in Mechanical Engineering Department of MMCOE. This department is continuously undergoing transformation. New initiatives have been launched related to academics, student's affair, research and extracurricular activities. The students and faculty of the department are sincerely participating in various activities organized at institute or at other places. It is elevating to see the sound performance of students. I offer best wishes for future activities. At last, I thank to the editorial team of YANTRADNYA for their sincere efforts and I offer my best wishes to the readers of this newsletter.



Dr. K. R. Patil
HEAD
Department of Mechanical
Engineering

From Editor's Desk

WE are glad launch issue 4 of Departmental newsletter YANTRADNYA. 'YANTRADNYA' has been initiated to provide a platform for showcasing the activities and achievements of our department. We had an excellent beginning of the academic year 2016-17. Department had made concrete plans for several activities every month - all set for first semester and successfully implemented them. I thank and congratulate staff members and students for their participation and success in various events and competitions which became rich content for the newsletter. I would like to express my gratefulness to the different persons who extended valuable assistance to publish YANTRADNYA and wish all the readers a prosperous and bright future.



Mr. Paresh Sawai
Assistant Professor
Department of Mechanical
Engineering

- *Team ABHEDYA qualified in **International Level Virtual BAJA Competition** held at Christ University, Bangalore, on 24th & 25th June 2016. Out of total 413 teams from various reputed institutes which participated in **Virtual BAJA Competition**, only 150 teams qualified for the main BAJA Competition. Our Team ABHEDYA secured 35th Rank all over India. This event is coordinated by Dr. K. R. Patil as Senior Faculty Advisor and Prof. A.D. Desale as Additional Faculty Advisor.*



- *Go-Kart Team 'Tachyon' participated in **NKRC 2016** competition held at Kolhapur, between 8th to 11th March 2016. This event was coordinated by Prof.R.P.Tadakhe and Prof.S.N.Belsare. Auto-enthusiasts from all over India, take part in this unforgettable dynamic event filled with thrills and twists.*



- Team "Achillies" of Mechanical Engineering Department participated in SAEINDIA, EFFI-CYCLE 2016 COMPETITION on Lovely Professional University, Punjab from 12th to 16th October 2016. This competition is held for under graduate and graduate students aimed to design, simulate and fabricate a highly efficient human powered vehicle that is aerodynamically and ergonomically stable. The event comprises static and dynamic tests of hybrid vehicle. This competition effectively promotes concept of "Go Green".

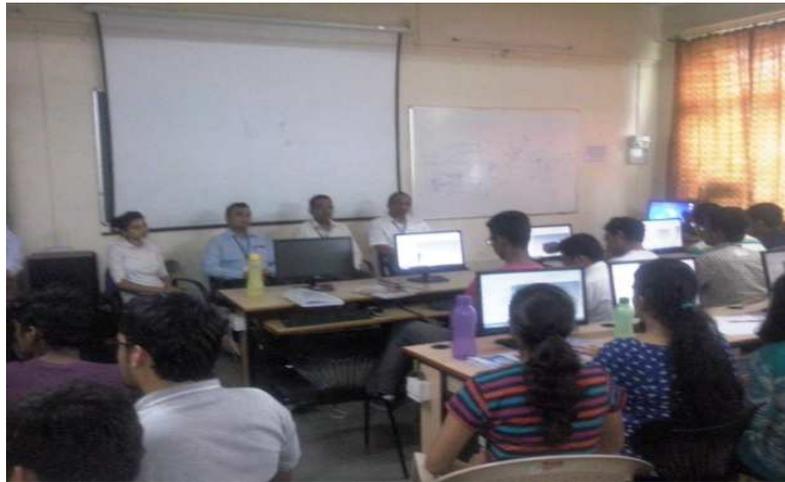


- Department of Mechanical Engineering, organized one day workshop on "5S, Kaizen & TQC" on 7th September, 2016. '5S' is a tool for organizing your workplace in a clean, efficient and safe manner to enhance productivity and management. Kaizen is the practice of continuous improvement. More than 20 participants took advantage of this quality tools. The resource persona for this program were Mr. Jotiram Jadhav, (Principal Practitioner of Lean, Kaizen, Lean 6σ & TQC) and Mr. Madhukar Paranjape, (Human Resource Consultant)



To meet the requirement of industry along with academic courses, Mechanical Engineering Department had conducted the value added courses as follows:

- **Student Development Program** on “Application of tool path generation of turning, milling, multiaxis & turnmill” from 17th to 19th September 2016 in collaboration with Onward Technologies Ltd. Pune. This add-on course provided students hands on training on intermediate and advanced modules of MASTER CAM software helping them to build their profile for placement.



- **Training on ANSYS** for T.E. and B.E. students arranged at MMCOE, Pune from 8th July 2016 to 3rd October 2016 with the objective of understanding basics of structural analysis. This training was organised with the collaboration of DesignTech, Pune.



- **Training on Geometric Dimensioning and Tolerance** for T.E. and B.E. students arranged at MMCOE, Pune from 21st June 2016 to 5th July 2016 with industrial MOUs partner **MechTol Engineering Solutions, Kothrud, Pune**. The GD & T expert Mr. Avinash Bhise shared his experience and guided students during this course. Students benefited with this course by acquiring the knowledge of GD & T in the industry.

- A workshop "Virtual lab setup for Refrigeration and Air conditioning Lab Equipments" was organized at MMCOE, Pune on 8th September 2016 for the faculty members dealing with subject Refrigeration and Air-conditioning. More than 50 faculty members from various engineering colleges attended the workshop. It was sponsored by Anucol Engineers, Kolhapur for promotion of Virtual RAC Laboratory equipments in Pune University. The motto of this workshop was to learn the use of new technological tool to a large extent in quick understanding of HVAC & R processes. Chief guests for this program were Dr. S.N. Sapali, HOD-Mech, COEP, Pune & Mr. Parag Riswadkar, President, ISHRAE, Pune Chapter. This activity was coordinated by Prof. V.W.Bhatkar.



- A national level program on ACR (Air Conditioning & Refrigeration) trends organized by ISHRAE was attended by Prof. V. W. Bhatkar on 10th and 11th November 2016. Eminent experts from all over the world delivered lecture on various topics such as buildings ventilation, cold-storages, refrigerants etc.
- Prof. V. W. Bhatkar attended a conference on " Air Conditioning and Refrigeration" was organized by ASHRAE on 18th November 2016
- Mr. Nikhil Shingare student of B.E. Mechanical Engineering received scholarship of Rs.20,000/- from ACR consultant ISHRAE Pune and Durgadevi Charitable Trust, Pune for his outstanding score of subject Refrigeration & Air Conditioning in SPPU exam



MESA ACTIVITIES

Mechanical Engineering Students Association (MESA) carried out various activities throughout the semester to make the academic energetic and enthusiastic. The highlighted Activities conducted by MESA were:-

- *Organized "ACWAR" competition for SE students on 8th, 10th and 12th of August 2016*
- *Organized "ACWAR" competition for TE students on 12th and 13th of August 2016*
- *Organized "Teachers Day" celebration for faculty members on 12th of September 2016*
- *Organized "Welcome Function" for SE students on 27th of September 2016*



Guest Lecturers Conducted

Various eminent personalities were called by department to enhance the industry institute interaction with whole and sole purpose of sharing their valuable words of knowledge with our students.

- *Guest lecture was delivered by Mr. Pradip Akolkar on "CAE solvers and softwares" for B.E. class on 5th July 2016.*
- *Guest lecture was delivered by Mrs. Suvarna Joshi from CADD Centre, Kothrud Pune on "CAD-CAM applications in various domains" which was attended by students of B.E. on 17th July 2016*
- *Guest lecture was delivered by Mr. L. V. Avdhani, Associate Professor PCCOE, Pune on "Industrial applications of threaded and welded joints" for T.E. students on 31st August 2016. Guest lecture by Mr. Sachin Thor, CAE consultant, Cummins Research and Technology, India Pune on "Applications of CAE in vibration" attended by students of B.E. on 10th September 2016*
- *Guest lecture was delivered by Mr. Hrushikesh Datar, Executive Sales Head at Accurate Sales & Services Pvt. Ltd. Pune on "TQM & Quality Tools" for T.E. students on 10th September 2016*
- *Guest lecture was delivered by Prof. N. J. Jogalekar on "Engineering tools and techniques" which was attended by students of S.E. on 14th September 2016*

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- Guest lecture was delivered by Mr. A. Y. Mehandale, Energy Auditor, MEDA, Pune on "Energy Audit- Case Studies" which was attended by students of B.E. on 21st September 2016
- Guest lecture was delivered by Mr. Rajesh Patane, UR vision 3D, Pune on "Advanced Manufacturing Processes" which was attended by students of B.E. on 26th September 2016
- Guest lecture by was delivered Dr. V. K. Bhojwani, JSPM college of engineering, Pune on "Thermodynamics & Psychometry" which was attended by students of S.E. on 27th September 2016
- Guest lecture was delivered by Mr. Sunil Gogate, Director, Ecochill Pvt. Ltd. Pune on "HVAC & Energy Conservation" which was attended by students of B.E. on 29th September 2016

Industrial Visits

With an aim to go beyond academics and to provide opportunity for active/interactive learning experiences in-class as well outside the classroom environment department arranged industrial visits. Industrial visit provides student insight into real working environment of industry and make bond of industries-academia.

B.E. Mechanical Engg. (A,B & C Divisions) students visited to

- Shivraj cold storage Pvt. Ltd, Pune on 30th & 31st September 2016
- Prabhat tyres, Pune on 20th & 24th September 2016

T.E. Mechanical Engg. (A, B & C Divisions) students visited to

- VG-TAP MMPLY, Pune on 29th, 30th and 31st September 2016
- Accurate calibration lab, Hadpsar, Pune on 17th & 22th September 2016
- Prolific systems & technology, Wakdewadi, Pune on 27th September 2016

S.E. Mechanical Engg. (A, B & C Divisions) students visited to

- Katraj dairy, Katraj, Pune on 07th & 08th October 2016

Faculty Achievements

- *Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, has been given responsibility of Head of Mechanical Engineering on 08th December 2016*
- *Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, has been awarded responsibility of subject expert in Local Selection Committee for Interviews of Mechanical Engineering Department at MITCOE, Pune on 25/06/2016*
- *Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, became life member of The Indian Society for Technical Education (ISTE) 2016 (LM 110677)*
- *Dr. K. R. Patil, , an Associate Professor of Mechanical Engineering Department was session chair at Second Mechanical Engineering Post Graduate Students' Conference (MECHPGCON-2016) jointly organised by MAEER's MIT College of Engineering, Pune and BoS-Mechanical Engineering, SPPU, Pune on 20-21st June 2016*
- *Dr. V.R. Deulgaonkar, an Associate Professor and Prof. S.N. Belsare, an Assistant Professor of Mechanical Engineering Department contributed one chapter "FEA of sub structure of transport utility vehicles" in book Engineering and Technology: Recent innovations and research (ISBN:978-93-84443-06-4.)*

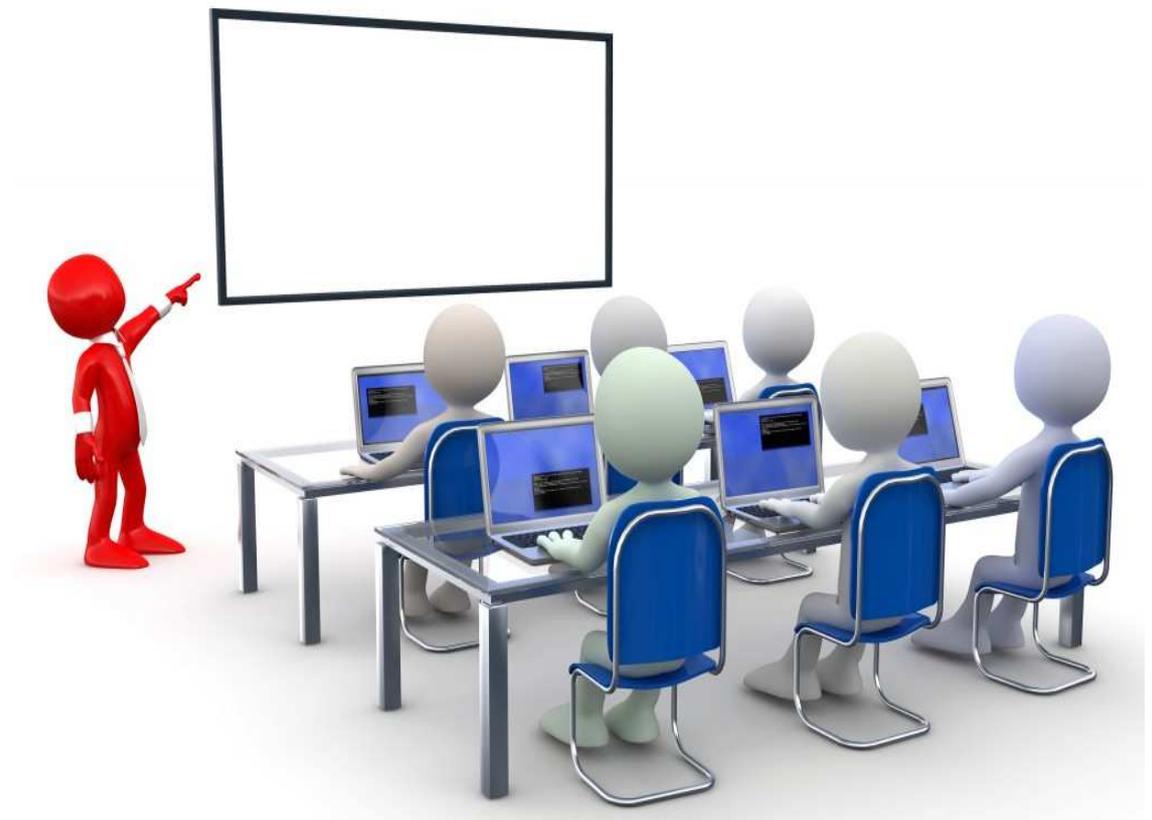
*"Science is about knowing;
Engineering is about doing"*
– Henry Petroski

In the pursuit of knowledge and to furnish themselves with a varied range of skills, the faculty of the department attended the following training programs:

- *Dr. K.R. Patil participated in the Faculty Development & Learning Mission to Industry, "Bridging the gap between Industry-Academia" from 7-9 July 2016 organised by Confederation of Indian Industry (CII) held at Mahindra Vehicle Manufacturers Ltd. Chakan , Pune*
- *Dr. K.R. Patil participated in Two days National Workshop on 'Accreditation Process for Technical Institutions' organized by DY Patil School of Engineering, Pune held on 15-16 December 2016*
- *Dr. V.R. Deulgaonkar presented paper on "Finite element analysis of chassis integrated structure of transport utility vehicles" at 4th international conference on industrial and production engineering held at NIT, Jalandhar*
- *Dr. V.R. Deulgaonkar presented paper on "Strength estimation of chassis integrated structure for intense loads by analytical method" at IEEE sponsored international conference on engineering and technology held at Karpagam college of engineering, Coimbatore, Tamilnadu, India*
- *Prof. V.W. Bhatkar attended one day workshop on " Subject detailing of Refrigeration & Air Conditioning" at KJCOEMR, Pune on 7th November 2016*
- *Prof. V.W. Bhatkar attended and participated in AICTE sponsored short term training programme on " Advances in Refrigeration and Sustainable Energy" from 28th November – 2nd December, at COEP, Pune*
- *Prof. V.W. Bhatkar attended one day workshop on " Building a Safe and Secure India" at KJCOEMR, Pune on 24th September 2016 which was organised by Fire & Security Association of India*
- *Prof. P. K. Tamkhade, Prof. R. S. Yadav, Prof. R. U. Patil, Prof. H. C. Pisal participated in workshop organised by MMCOE, pune on " LaTex for Effective Report Writing" from 19th December – 21st December 2016*
- *Prof. Prof. R. S. Yadav and Prof. P.Z. Lokhande participated in "Automation Studio Users Meet-2016" held at MCCIA Trade tower, Pune on 15th July 2016*
- *Prof. Prof. R. S. Yadav participated in workshop on "Migrating Towards FOSS (Free & Open Source Softwares)" conducted by Digital Freedom Foundation on 22nd July – 23rd July 2016*
- *Prof. N. V. Mohite attended one day workshop on " Subject detailing of Turbomachines" at ZES's Zeal College of Engineering & Research, Pune, on 8th November 2016*
- *Prof. N. V. Mohite participated in syllabus formulation workshop of " Skill Development" at VIIT, Pune, on 26th October 2016*
- *Prof. A.B. Gholap has attended Faculty development Programme on "World Class Manufacturing-A Strategic Perceptive" held at COEP, Pune on 13th June to 17th June 2016*
- *Dr. V. R. Deulgaonkar, Prof. P. V. Sawai and Prof. Mrs. M. P. Rode attended one day workshop on " Syllabus Revision of Design of Machine Elements-II" at JSPM's Rajarshi Shahu College of Enginnering, Pune, on 8th November 2016*

Workshops, Seminars and Conferences Attended by Faculties

- *Dr. V. R. Deulgaonkar, Prof. P. V. Sawai and Prof. Mrs. M. P. Rode attended one day workshop on “ Syllabus reframing of T.E. Mechanical, 2015 course, Subject- Design of Machine Elements-I” at Dr. D. Y. Patil Institute of Engineering and Technology Pune, on 7th November 2016*
- *Prof. A. V. Chavan attended two days state level workshop on “Recent Trends in Mechatronics” at Pimpri chinchwad college of engineering & research, Pune, on 14th december 2016*
- *Prof. Mrs. R. K. Shastri attended one day workshop on “ Syllabus setting of T.E. mechanical 2015- MP-I & MP-II” at JSPM’s Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune, on 9th November 2016*
- *Prof. Mrs. R. K. Shastri and Prof. Ms. P. P. Kachare attended one day workshop on “ Syllabus Detailing of T.E. Mechanical, 2015 course, Subject- MQC ” at SRES’s SRCOE, Pune on 21st October 2016*
- *Prof. G. R. Chaudhary participated in National Conference on Product Modelling, Simulation & Manufacturing-2016 at MMIT, Pune, on 9th September- 10th September 2016*
- *Prof. Ms. P. P. Kachare attended one day workshop on “ Syllabus Detailing of Subject- Mechatronics ” at MMCOE, Pune on 10th November 2016*



Faculty Publications

- *Dr. V. R. Deulgaonkar published paper "Strength Estimation of Chassis Integrated Structure for Intense Loads by Analytical Method", in 2016 International Conference on Engineering and Technology.*
- *Dr. V. R. Deulgaonkar published paper "Gradient Load Evaluation of Chassis Frame Mounted Specialised Structure Designed for Heavy Off-Road Vehicles", in International Journal of Vehicle structures and Systems,2016.ISSN: 0975-3060(Print), 0975-3450(Online)*
- *Dr. V. R. Deulgaonkar published paper "Vibration Measurement and Spectral Analysis of Chassis Frame Mounted Structure for Off-Road Wheeled Heavy Vehicles", in International Journal of Vehicle structures and Systems,2016.ISSN: 0975-3060(Print), 0975-3450(Online)*
- *Prof. Mayuri P. Rode published paper "Computer Simulated & Mathematical Modeling for Mechanical Timer by using Runway Escapement Mechanism", in IJSART,2016.ISSN: 2395-1052.*
- *Prof. N. V. Gore published paper "Analysis of Leaf Spring for Alternative Material subjected to Fluctuating Loads", in PGCON 2016,Pune.*
- *Prof. G. R. Chaudary published paper "Fault Detection of Conditioned Thrust Bearing using FFT Analyser", at National Conference on Product Modeling Simulation and Manufacturing-2016, at MMIT, Pune.*
- *Prof. M. V. Kawade published "Optimization and Heat Transfer study of Passive Suspension system-A Review" Volume 3,Issue 12,2016.*

"It is the supreme art of the teacher to awaken joy in creative expression and knowledge." – Albert Einstein

Students take part in various technical and cultural competitions which gives them opportunity to present their skill before world

- Raj Khanekar secured 2nd rank in 100m run in SPPU Pune city zone Intercollegiate Sports.
- Raj Khanekar secured 3rd rank in 200m run in SPPU Pune city zone Intercollegiate Sports.
- Rohan Gugale travelled throughout India with Jagriti Yatra-Building India through enterprise.
- Prasanna Patil won 1st prize along with cash of Rs.1000/- in the event Clash Royal held under Nirmaan at Zeal College of Engineering,Pune.

Placement

Placement of students is given utmost importance in Mechanical Engineering Department. Students are placed in various companies by dint of combined effort of students and faculties.

Sr. No	Name of Student	Industry Name	Package in Lakh
1	Aditya Abhyankar	Tech Mahindra	3.25
2	Aditya Ranade	Amazon.in	2.00
3	Ankita Jadhav	Amazon.in	2.00
4	Ashutosh Limaye	Amazon.in	2.00
5	Aumkar Pradhan	Amazon.in	2.00
6	Chaitanya Deshpande	Tech Mahindra	3.25
7	Gitansh Makwana	Tech Mahindra	3.25
8	Gopal Dalal	Tech Mahindra	3.25
9	Maitrey Gogate	Tech Mahindra	3.25
10	Mandar Deo	Amazon.in	2.00
11	Mitali Mane	Amazon.in	2.00
12	Omkar Dixit	Tech Mahindra	3.25
13	Palash Bhangare	Amazon.in	2.00
14	Pranav Nalawade	Tech Mahindra	3.25
15	Sahil Kulkarni	Amazon.in	2.00

Students Achievements

Sr. No	Name of Student	Industry Name	Package in Lakh
16	Sanket Barhate	Tech Mahindra	3.25
17	Shardul Chavan	Amazon.in	2.00
18	Shaunak Khole	Amazon.in	2.00

Our Toppers

Rank	Class	Name of Student	%/SGPA
1	SE	Ganganalli Darshan	9.28
2		More Mihir Mohan	9.16
		Paigude Karan Avinash	
		Pawar Kundan Pratap	
		Saptarshi Shraddha M	
3	Joshi Parag Sanjay	9.04	
1	TE	Kokate Aditya Kundalik	79.20
2		Kulkarni Kapil Mohan	
3		Kul Shruti Ravindra	75.20
3	Bhaskar Aditya Suresh	74.14	
1	BE	Wakchaure Mayur Balasaheb	79.20
2		Mahajan Yogesh Kishor	77.74
3		Patil Indrajit Maruti	76.53

