



“We crank the ideas and shift the gears to accelerate lives”

From HOD'S Desk:-

Great complement to Faculties and Students!



Prof. S. N. Satpute

I am very delighted to release semester-II newsletter of Mechanical Engineering Department for A.Y. 2015-16. Semester-II was filled with various curricular and co-curricular activities which includes establishing centre of excellence, ISHRAE and ASHRAE events, and participation in E-yantra sponsored by IIT-Bombay Technical events, ENSEMBLE-2 k 15 and DEXTIRITY. MoUs with various industries, Periodic seminars, industrial visits and industrial training was conducted to boost the skills of students as well as to achieve objective of department.

This newsletter supplies information of current achievement which adds credit in estimation of department.

Prof. S. N. Satpute

Vice Principal & HOD Mech.Engg. Dept.

VISION MISSION OF MECHANICAL ENGINEERING DEPARTMENT

VISION:-

TO PRODUCE GLOBALLY COMPETENT MECHANICAL ENGINEERS THROUGH EXCELLENCE IN TEACHING, RESEARCH AND INNOVATION.

MISSION:

- **MOTIVATE** STUDENTS FOR HIGHER STUDIES, RESEARCH, INNOVATION AND LIFE LONG LEARNING.
- **EQUIP** THEM WITH MODERN TOOLS IN MECHANICAL ENGINEERING.
- **CREATE** ENTREPRENEURSHIP SKILLS.
- **HARNESS** TECHNICAL ABILITIES TO ADVANCE WELLBEING OF THE SOCIETY IN VARIOUS FIELDS.

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**Credits: - Prof. P. V. Sawai
Prof. S.R. Dhok
Prof. C.K. Dave**

Departmental Achievements

- Team Abhedya (BAJA Team) participated in International Level BAJA Competition held at Pithampur, Madhya Pradesh on 18th to 21st Feb 2016. College team won 2nd prize of "GO GREEN" award worth Rs.40, 000/-. This event is co-ordinated by Dr. K. R. Patil as a Senior Faculty Adviser and Prof. A.D. Desale as an Additional Faculty Advisor.



- Go-Kart Team 'Tachyon' won "Best Design Award" in ISK 2016 competition held at Lahari, Hyderabad, Telangana between 8th to 11th March 2016. This event was coordinated by Prof. J. B. Diwakar, Prof. R. P. Tadakhe and Prof. P. V. Sawai.



- Mechanical Engineering Department participated in E-Yantra competition initiated by IIT-Bombay & sponsored by National Mission for education through ICT (NMEICT) of the Ministry of Human Resources development (MHRD), Government of India. College team

received class 'A' award with cash prize of worth Rs. 8000



- Mechanical Engineering Department has entered into a number of Industry-Institution partnerships through Memorandum of Understanding (MoU) with various organizations for training, technical collaboration and consultancy.

- 1) MOU Signed with Maharashtra State Transport Corporation (M.S.R.T.C) Workshop Dapodi, Pune - MoU for the year 2016-2018



- 2) KGC Engineering Projects Private Ltd. Pune. MoU for the year 2016-2017



3) MechaTol Engineering Solutions Pvt. Ltd.
Pune- MoU for the year 2016-2017



Departmental Activities

In order to learn something apart from the theoretical knowledge, and to express the generic technical skills, Department had organized various technical events for students. The highlighted technical events in this semester were:-

Mechanical Engg. Dept. had organized an event named "MECH-IMPACT" on 9th February 2016. This event was organized to give a unique arena to students for exploring their hidden talent and creativity. The event was coordinated by the Faculty in-charge Prof. P. V. Sawai and student coordinators Miss. Chaitrali Salgaonkar, Ms. Rujuta Kulkarni & Mr. Dhairyashil Bhutkar.



Add -On Courses Conducted:

To meet the requirement of industry along with academic courses, Mechanical Engg. Dept. had conducted the value added courses as:

- **International Webinar** on Explicit, Dynamics And Transient Structural Analysis arranged at Mechanical Dept., MMCOE on 19th March 2016 to get hands on practice of advanced modules in Ansys
- **Introduction to Robotics** for S.E., T.E. and B.E. students arranged by Centre of Excellence in Robotics started from 27th June 2016 with the objective of understanding basics of field.
- **Introduction to CFD software** for faculties arranged by Prof. P.V. Hadgekar from 10th to 12th May 2016

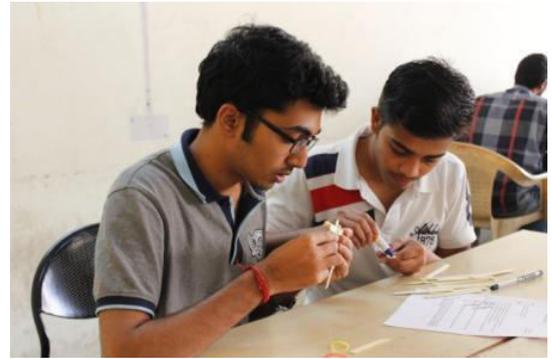
ISHRAE ACTIVITIES:-

- ISHRAE members Mr. Aniket Changedia, Ms. Chaitrali Salgaonkar, Ms. Rujuta Kulkarni, Mr. Retul Pillai and Mr. Dinesh Khairnar won most of the prizes during the Techno CHILL 2016, a student's event organized at JSPM COE Hadapsar Pune, on 17th Jan 2016. They won total Prizes worth 25000/-



- Four projects were sent for financial assistance to ISHRAE New Delhi under guidance of Prof. V.W. Bhatkar, one project selected for financial assistance of Rs. 95,000.
- ACR Trend-Z organized by ISHRAE at Pune was attended by Prof V.W. Bhatkar along with 10 students of MMCOE.
- A team of two students had participated in Seminar Hall Design Competition in ACREX 2016 organized by ISHRAE, New Delhi under guidance of Prof. V.W. Bhatkar

- Six students Participated in ISHRAE JOB JUNCTION at Mumbai on 25th Jan 2016, one student got shortlisted for final interview in Blue Star
- Refcon-2016 , National Conference organized by ISHRAE was attended by Prof. V. W. Bhatkar and Prof. S. N. Belsare along with 9 students on 10th Feb 2016



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 "AAKRUTI 2K16" CATIA competition on 15th and 16th Jan 2016
- Organized "Technoquiz" quiz competition on 19th Jan 2016
- Organized "BRAINCRAFT" competition on 19th Jan 2016
- Organized "Self Defence Workshop" for girls of Mechanical Engineering Dept. on 13th Feb 2016

DEXTERITY 2K16:-

Department had organised different technical competitions like Mech-mind, Rob rampage and Presentation Competition in the event **Dexterity 2K16**

The event Mech-mind was co-ordinated by Prof. P.V. Sawai, Robo Rampage by Prof. A. V. Chavan and Presentation Competition by Prof. P.Z. Lokhande. Students enthusiastically participated in these competitions and won different cash prizes in these events.



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 by Mr. P.G. Bhatt, General Manager of ARAI on "Turbo Charging of I.C. Engine" attended by students of S.E. on 19th March 2016.
- Guest lecture by Mr. A.D. Paranjpe from Tata Power Company Pune on "Thermal and Cogeneration Power Plant" attended by students of B.E. on 9th March 2015
- Guest lecture by Mr. S.B. Bandekar, Ex-Chief Engineer, MAHAGENCO, NTPS, Nashik on "Electrical instruments used for Power Plant" attended by students of B.E. on 5th Feb 2016.
- Guest lecture by Mr. Rahul Naidu, Mr. Sandip Atlage and Mr. P. Subhash from CEO DES on "Skill development under PTC academic grant scheme" attended by students of S.E. and T.E. on 30th June 2015
- Guest lecture by Prof. Amol Patil from D.Y. Patil College of Engineering, Pune on "Reliability Engineering" attended by students of B.E. on 30th Sep 2016

- Guest lecture by Mr. Rushi Joshi, Gate Expert, Hyderabad on "Career after B.E." attended by students of T.E. on 13th Jan 2016
- Guest lecture by Prof. Joglekar on, "Advanced and Business English Communication" attended by students of T.E. on 13th Feb 2016
- Guest lecture by Mr. Apoorv Bapat from Elevation Technology, Pune on "Introduction and application of CAE" attended by students of T.E. and B.E. on 10th Feb 2016
- Guest lecture by Mr. Kiran Lalsangi, Director, 11 Dot Cad Tech, Pune on "Engineering Drawing" attended by students of S.E. on 8th Feb 2015
- Guest lecture by Mr. Sachin Thor, CAE Analyst, Cummins India and Trainer, IFS Academy, Pune on "FEA using Ansys-Introduction and Applicability" attended by students of T.E. on 12th Mar 2016
- Guest lecture by Mr. Joglekar on "Jigs and Fixtures" attended by students of T.E. on 13th Feb 2016
- Guest lecture by Dr. K.V. Mali, Associate Professor, MITCOE, Pune on "Numerical Methods and Optimization" attended by students of T.E. on 19th Mar 2016
- Guest lecture by Mr. P.P. Rode, Deputy manager, Defence, Bharat Forge, Pune on "Design of Machine Elements-II" attended by students of T.E. on 21st Mar 2016
- Guest lecture by Mr. Rashi Sachan, Designer, Design and Control Department, Comauindia Pvt. Ltd. on "Mechatronics" attended by students of T.E. on 19th Mar 2016
- Guest lecture by Mr. P.P. Rode, Deputy manager, Defence, Bharat Forge, Pune on "Mechanical System Design" attended by students of B.E. on 30th Mar 2016
- Guest lecture by Dr. Anand Bewoor, Professor, Cummins College of Engineering, Pune on

"Industrial Engineering" attended by students of B.E. on 30th Mar 2016

Industrial Visits

To relate theoretical knowledge taught in institute with practical scenario of industrial environment, department arranged visits to various plants with the objective of bridging gap between institute and industry.

B.E. Mechanical (A & B Divisions) Students Visited

- Solar Power Plant, Village-Shive, Taluka-Khed, Pune on 23rd March 2016
- Nashik Thermal Power Plant on 5th March 2016

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

- A-1 Gears, Shivane, Pune on 14th, 15th and 16th March 2016.
- Bhatghar Hydro Power Station, Bhatghar, Pune on 22nd and 23rd March 2016
- Warje Pumping Station, Pune on 7th and 8th March 2016

S.E. Mechanical (A, B & C Divisions) Students Visited

- MSRTC Central Workshop, Dapodi, Pune on 8th, 9th and 10th March 2016.

Faculty Achievements

- Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, has been given responsibility of Dean (R & D), Incharge of Internal Quality Assurance Cell (IQAC), NBA and NAAC coordinator.
- Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, was Keynote Speaker in State level Seminar on "Performance of Hybrid Electric Vehicles and

its Environmental Impacts” sponsored by SPPU, Pune under Quality Improvement Program organised by G H Raison Institute of Engineering & Technology, Wagholi, Pune on 23rd Jan 2016 and delivered speech on ‘Alternative Fuels for Hybrid Vehicles’

- Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, has been awarded responsibility of Subject Expert for UGC-SPPU Faculty Interviews of Mechanical Engineering Dept. at G. H. Raison Institute of Engineering & Technology, Wagholi, Pune on 6th Feb 2016.
- Dr. K. R. Patil, , an Associate Professor of Mechanical Engineering Department was session chair at Second Mechanical Engineering Post Graduate Students’ Conference (Heat Power Engineering, Automotive, Energy Engineering) (MECHPGCON-2016) jointly organised by MAEER’s MIT College of Engineering, Pune and BoS-Mechanical Engineering, SPPU, Pune on 20-21st June 2016.
- Dr. K.R. Patil, an Associate Professor of Mechanical Engineering Department, has been awarded responsibility of Reviewer under Centralised Review Program at Second Mechanical Engineering Post Graduate Students’ Conference (Heat Power Engineering, Automotive, Energy Engineering) (MECHPGCON-2016) jointly organised by MAEER’s MIT College of Engineering, Pune and BoS-Mechanical Engineering, SPPU, Pune on 9th June 2016.
- Dr. V.R. Deulgaonkar, an Associate Professor of Mechanical Engineering Department, has been awarded responsibility of Dean (Student Affairs)
- Dr. V.R. Deulgaonkar, an Associate Professor of Mechanical Engineering Department, has been awarded responsibility of Faculty Incharge for undertaking projects of KGC

Engineering Projects and Maharashtra State Road Transport Corporation for design of bus.

- Dr. V.R. Deulgaonkar, an Associate Professor and Prof. S.N. Belsare, an Assistant Professor of Mechanical Engineering Department contributed one chapter in international book "Energy Conservation and Environment Protection" of ISBN:978-93-84443-54-2.
- Prof. V.W. Bhatkar, an Assistant Professor of Mechanical Engineering Department, has been given post of ISHRAE CWC and student chair of Pune chapter. Besides he has awarded post of coordinator for “Confederation of Indian Industry and Education Excellence Forum (EEF)” to link institute with industry
- Prof. V.W. Bhatkar and Prof. S.N. Belsare, an Assistant Professor of Mechanical Engineering Department worked as session chair for ‘Technochill-2016’ under ISHRAE, Pune on 17th Jan 2016
- Prof. V.W. Bhatkar, an Assistant Professor of Mechanical Engineering Department worked as Judge for a National Conference ‘Technovision’ at JSPM, Narhe Technical Campus, Pune on 8th and 9th Feb 2016
- Prof. P.K. Tamkhade has been awarded responsibility of reviewer and session chair of PGCON Mechanical at MITCOE, Pune on 9th June 2016

Workshops, Seminars and Conferences Attended by Faculties

- Dr. K.R. Patil attended Faculty Development Workshop on “Art of Self-Development through heartfulness meditation (Keynote Speakers: John Barlow and Betsy barlow –USA)” organised by Sahaj Marg Spirituality Foundation at MMCC, Pune on 20th Jan 2016
- Dr. K.R. Patil participated in the “One Day Workshop on Entrepreneurship Development”

organised by ED Cell of MMCOE, Pune on 26th March 2016.

- Dr. K.R. Patil participated in the Faculty Development Programme and Learning mission to Industry; "Bridging the gap between Industry-Academia" from 7-9th July 2016 organised by Confederation of Indian Industry (CII) held at Mahindra Vehicle manufacturers Ltd. (MVML), Chakan; Volkswagen India Private Ltd., Chakan; Godrej Lawkim Motors group, Shirwal and John Deere India Pvt. Ltd., Sanaswadi
- Prof. V.W. Bhatkar attended ACREX-2016 at Mumbai on 25th July 2016
- Prof. V.W. Bhatkar attended "Third International Conference in Transformation of Engineering Education(ICTIEE-2016)" on 10th June 2016 at COEP, Pune
- Prof. R.S. Yadav has attended one Day workshop on Syllabus Implementation for "Mechanical System Design" at DYPCOE, Pimpri on Monday 21st December 2015
- Prof. P.V. Sawai has Participated in National Level Workshop on "Ansys Mechanical Linear and Non Linear Dynamics" on 7th and 8th Jan 2016
- Prof. A.V. Chavan attended 'E-Yantra symposium' which was held at IIT-Bombay on 11th and 12th April 2016
- Prof. A.B. Gholap has attended Faculty development Programme on "World Class Manufacturing-A Strategic Perceptive" held at COEP, Pune on 13th to 17th June 2016
- Prof. P.V. Hadgekar has attended one day workshop on "Open Foam-CFD" held at IIT-Bombay on 27th Feb 2016
- Prof. Ms. P.P. Kachare and Prof. S.B. Chavan has attended one day faculty development programme on "Finite Element Analysis using ANSYS and MATLAB Software" on 20th Jan 2016 at D.Y. Patil College of Engineering, Pune.

Paper Presented/Published by Faculties

- Dr. V.R. Deulgaonkar published paper "Gradient Load Evaluation of Chassis Frame Mounted Specialised Structure Designed for Heavy Off-Road Vehicles" Vol 8, No 2 (2016) in International Journal of Vehicle Structures & Systems. ISSN 0975-3060; Online ISSN 0975-3540
- Dr. V.R. Deulgaonkar published paper "Vibration Measurement and Spectral Analysis of Chassis Frame Mounted Structure for Off-Road Wheeled Heavy Vehicles" Vol 8, No 1 (2016) in International Journal of Vehicle Structures & Systems. Print ISSN 0975-3060; Online ISSN 0975-3540
- Prof. R.S. Yadav and Prof. S.B. Chavan published paper "Validation of Weld Joint on curved plate to determine Effect of Overlap Length on Strength and Deformation of Joint by using FEA"
- Prof. R.S. Yadav and Prof. S.B. Chavan published paper "Theoretical and CFD analysis of Pressure Drop of Hydraulic Oil through Bend Pipe" of ISSN No. 2454-5392
- Prof. M.V. Kawade published paper "Failure Analysis of Crankshaft against Seizure and Scoring of Engine" in National conference at APCOER, Pune.
- Prof. Mrs. N.V. Gore published paper 'Analysis of leaf spring for Alternate Material subjected to Fluctuating Load' at PGCON-2016, Pune.

Students Achievements

- Students take part in various technical and cultural competitions which gives them opportunity to present their skill before world
- Sanman Golwalkar elected as Vice President, Sakal Young Inspirators Network, Pune which organised by Sakal YIN, Pune Region in Jan 2016.

- Sopan Jagdale selected at University level NSS camp, Pune
- Ankit R. Chnagediya secured 1st Position in Project Ideas at Techno-CHILL-2016.
- Vikram Borade won ETPOI award of Rs.5 Lacs which was organized by The Economic Times.
- Base ball Team Secured 2nd Prize in ZEST, organized by COEP, Pune
- Chaitanya Kulkarni secured 1st Prize in Dwandva (Marathi Debate) in Event-Astitva organized by DES's BMCC, Pune
- Nikhil Shingare received scholarship of Rs. 20,000 from ISHRAE and Durgadevi Charitable Trusts in March 2016.
- MMCOE student team represented ISHRAE Pune chapter at zonal level of ACREX 2016 at Ahmadabad out of five ISHRAE student chapters from Pune.

Ensemble 2K15

ENSEMBLE 2K15, Institute level Sport and Cultural event was organised from 17th Dec to 25th Dec 2015. Students and Faculties of Mechanical Engg. Department participated in this event. Cultural event had many competitions like Antakshari, Mismatch Competition, Traditional Days, and Treasure Hunt etc which was flooded and energized by pool of students. Institute also focused on sports activities which bring body and mind of the students in harmony. Faculties also showed great eagerness in competing sports like Cricket, Volleyball, and Carom etc. Marathi actor Mr. Siddharth Jadhav and Rege fame Mr. Aroh Welankar brought different colours of jubilation to the evenings of these events.

On 25th December Mr. P. Arul Kumar, Managing Director, Spicer India Pvt. Ltd. was invited as a Chief Guest for the Prize Distribution Function. He met BAJA, Go-Kart and Robocon team and encouraged them for further success. This year, instead of organising the post ceremonial dinner, the students opted to donate the whole amount to NAAM Foundation for a noble cause. The cheque of Rs. 2, 51,000/- was handed over to

Mr. Nana Patekar, Founder President NAAM Foundation.



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 Walunj	Mahindra & Mahindra	2.30
2	Ajit Kumar Chavan	Finolex	2.00
3	Akshay Jadhav	Samtek	2.00
4	Asmita Doshi	Tech Mahindra	3.07
5	Devdutt Parandkar	Tech Mahindra	3.07
6	Kedar Rajpathak	Polycab	3.00
7	Kedar Rajpathak	Tech Mahindra	3.07
8	Kedar Rajpathak	Mahindra & Mahindra	5.75
9	Nachiket Bhalwankar	Tech Mahindra	3.07
10	Nachiket Bhalwankar	Volkswagen	3.36
11	Nikhil Shinde	Tech Mahindra	3.07

12	Nishigandha Jangnure	Tech Mahindra	3.07
13	Nishigandha Jangnure	DANA Corporation	3.00
14	Parth Gunjal	Tech Mahindra	3.07
15	Parth Gunjal	Mahindra & Mahindra	2.30
16	Pranav Kuber	Tech Mahindra	3.07
17	Retul Pillai	Tech Mahindra	3.07
18	Retul Pillai	Volkswagen	3.36
19	Rohan Gugale	Tech Mahindra	3.07
20	Rohan Gugale	Mahindra & Mahindra	5.75
21	Sagar Gujarathi	Hettich	2.40
22	Sagar Gujarathi	Bridgestone	2.40
23	Sanman Golwalkar	Tech Mahindra	3.07
24	Sneha Phadtare	Faurecia	3.00
25	Varun Shitole	Tech Mahindra	3.07
26	Vinayak Kanade	Tech Mahindra	3.07

Our Toppers

Rank	Class	Name of the student	Div	%
1	SE	Gujarathi Aniket Milind	C	74.94
2	SE	Tanpure Abhishek Laldas	B	74.27
3	SE	Parkale Pratik Sanjay	A	74.20
1	TE	Patil Indrajit Maruti	C	79.53
2	TE	Satish Thangaraj	B	78.60
3	TE	Mahajan Yogesh Kishor	C	77.80
1	BE	Gugale Rohan Ravindra	A	78.93
2	BE	Gujarathi Sagar Nandkishor	A	77.26
3	BE	Shinde Sumeet Sham	B	77.20

Results

Result of student reflects their hard work, commitment and willpower to excel.

Class	No. of students appeared	Passing Percentage
SE	223	78.02 %
TE	222	83.34 %
BE	153	88.84%

