



Shri Balasaheb Mane ShikshanPrasarakMandal, Ambap's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS**

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**DEPARTMENT OF MECHANICAL ENGINEERING**

## MECH-GLIMPSE

### Patron

- Hon. Shri. Vijayasingh A. Mane (Chairman)
- Dr. D. N. Mudgal (Executive Director)
- Dr. K. Ravi (Director)

### Editors

- Prof. Dr. A. N. Chapgaon
- Prof. E. N. Aitavade

### Co-Editor

- Prof. A. S. Patil

### ❖ VISION

To become a center of excellence in Mechanical Engineering, producing competent, creative, employable and dynamic Mechanical Engineers.

### ❖ MISSION

- M1:** To impart fundamental and advanced technology of mechanical engineering to the students.
- M2:** To create an environment for the students to excel in mechanical engineering field, engage in research and development activity and participate in professional activities.
- M3:** To prepare the students for team building activities with good communication skills and high ethical standards.
- M4:** To train and motivate the students for lifelong learning, employability and entrepreneurship.

### **Program Educational Objective (PEOs):**

The Program Educational Objectives of Mechanical Engineering Programme, within three to five years of graduation are:

- PEO 1 :-** To impart knowledge of mathematics, basic and applied sciences to tackle complex engineering problems.
- PEO 2 :-** To encourage students for applying their knowledge and skills for problem identification, formulation, analysis and design/ development of solutions to solve real life engineering problems with orientation to industrial sector.
- PEO 3 :-** To prepare the students for necessary professional skills, high ethical standards, effective oral, written communication and team building activities in diverse and multidisciplinary teams.
- PEO 4 :-** To prepare students to excel in their field, participate in professional activities and project management; get updated in current industrial trends so as to engage in research and development activities.
- PEO 5 :-** To provide sufficient training and guidance to students for improving employability, entrepreneurship skills, industrial competency and motivation for lifelong learning.

### **Programme Outcomes (POs)**

Mechanical Engineering graduates will be able to

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to

comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
13. **PSO1:** The Mechanical Engineering Graduates will be able to utilize their knowledge in the areas of mechanical design using finite element analysis.
14. **PSO2:** The Mechanical Engineering Graduates will be able to apply their knowledge in thermal engineering fields and green technology.
15. **PSO3:** The Mechanical Engineering Graduates will be able to apply their knowledge in manufacturing technology for realization of mechanical systems.

## ❖ Departmental Activities

- IES Exam guidance seminar by expert Mr. Vibhav of MADE EASY on 28<sup>th</sup> July 2016.



- A Guest lecture by Mr. Sunil Powar of Envision Company Warananagar on “Career opportunities in piping design” for TE students on 4<sup>th</sup> August 2016. The students got the information about career opportunities in piping design. This programme will be beneficial to students for their employment.



- Robotic Cell Guidance by TPO Dr. Bhagavan Patil and Prof. M. A. Sutar (PG Coordinator), Prof. Desai (E & TC) and Prof. Pratik Patil on dated 9<sup>th</sup> August 2016.



- Robo-cell inauguration was done at the hands of Dr. D. N. Mudgal sir, Executive Director, AMGOI, Vathar, on 24<sup>th</sup> August 2016. The motive was to increase the Robotics activities. This will help the students for getting the knowledge about working of the Robot.



- A “Group Discussion” event was organized by the MESA in the department on 25<sup>th</sup> August 2016. This programme was organized to increase the Group Discussion skills of the students participated. All the students performed well in this activity. This is helpful in their placement activities.



- Departmental Parent Meet was organized on 27<sup>th</sup> August 2016. Total 60 parents were present for that meet. The parents interacted with the staffs of the department. They also gave suggestions to improve the academic performance of the students.



- Prof. H. A. Saraikar arranged guest lecture on “Career opportunities in NDT and Piping design” for Mechanical students on 30<sup>th</sup> August 2016. Students learned about NDT and piping design from this lecture. This programme will help the students for their future career.



- Expert lecture by Prof. M. A. Sutar on subject Metallurgy at Sanjeevan college of Engineering Panahala on 8<sup>th</sup> October 2016.



- MoU was signed with Gurukul foundation, Siddhgiri Math, Kaneri Kolhapur on 31<sup>st</sup> August 2016. Dr. A. N. Chapgaon, Prof. S. S. Todkar and Prof. V. A. Kulkarni were present for the same from institute side. This has helped the students to increase the creativity through the project.



- A training of CATIA for students was conducted under DRE, Tata Technologies in the month of December. Prof. S. S. Todkar, Prof. U. P. Sutar, Prof. H. J. Nadaf, Prof. S. V. Dafade, Prof. P. H. Patil, Prof. S. H. Patil coordinated the training.





- An expert lecture was conducted on 21<sup>st</sup> January 2017 on the subject of “Basics of boiler and survival of boiler with non-conventional energy clubbing with management skills” in association with Urjankur Shree Datta Power Co. Ltd., Dattanagar, Shirol by Er. Dhanendra Gadale (Asst. V. P.).



- Advanced EDM machine training was given to faculty on 12<sup>th</sup> January 2017 by SPARKONIX INDIA LTD. PUNE to Mechanical Engineering Department faculty.



- One Day Workshop on Skill Development for 3rd year Students was organized on 25<sup>th</sup> January 2017. The resource person for this workshop was Dr. Prof. A. M. Gurav, Head, Department of commerce and Management, Shivaji University, Kolhapur.



- “Engineous” event was organized in the department on 16<sup>th</sup> February 2017. Around 800 students participated in the different events. The events organized were Volleyball competition, War Zone Competition, Quiz Competition, Bot Players (Robo Race), slow bike racing.



- Training Workshop on “3D Printing Technology” was conducted by Mechanical Department under lead college scheme on 18<sup>th</sup> March 2017.



- **Following are the different activities conducted in the Mechanical Engineering Department.**

<b>Sr. No.</b>	<b>Name of the event</b>	<b>Date of event</b>
1	GATE coaching classes started on 7 <sup>th</sup> July 2016, under the guidance of Prof. T.A. Mulla & Prof. P. A. Patil for BE Students.	7 <sup>th</sup> July 2016
2	“Career opportunities in piping design” Guest lecture by Mr. Sunil Powar of Envision Company Warananagar for TE students on 4 <sup>th</sup> August 2016.	4 <sup>th</sup> August 2016
3	A meeting on formation of “Robotic Cell” was arranged by Prof. P. A. Patil & Prof. M. A. Sutar on 9 <sup>th</sup> August 2016.	9 <sup>th</sup> August 2016
4	Prof. S. S. Todkar arranged Guest lecture on “CAD/CAM/CAE” in automotive field on 11/08/2016. Expert Mr. Shrikant Bidwai from CAD/CAM Guru, Pune presented Ferrari case study.	11 <sup>th</sup> August 2016
5	Departmental Parent Meet was organized on 27/8/2016. Total 60 were parents.	27 <sup>th</sup> August 2016
6	Prof. H. A. Saraikar arranged guest lecture on “Career opportunities in NDT and Piping design” for Mechanical students on 30/08/2016.	30 <sup>th</sup> August 2016
7	MoU signed with Gurukul foundation, Siddhgiri Math, Kaneri Kolhapur on dated 31/08/2016. Dr. A. N. Chapgaon, Prof. S. S. Todkar and Prof. V. A. Kulkarni were present for the same from institute side.	31 <sup>st</sup> August 2016
8	Fresher’s welcome function was organized in the department on 22/09/2016.	22 <sup>nd</sup> September 2016
9	Ten students of TE and BE Mechanical were participated in Go-kart 2016 National level event at Mohite Racing Academy, Kolhapur from 28 Sept to 1 Oct 2016 under the guidance of Prof. U. P. Sutar.  Our team fabricated F1 car of 125cc capacity for this competition. We stood 62 <sup>nd</sup> out of 176 teams. College provided technical as well as financial support of Rs.60000/- for fabricating the vehicle. The vehicle was designed & fabricated in the campus by using workshop	22 <sup>nd</sup> Sept. to 1 <sup>st</sup> Oct. 2016

	facilities under the guidance of mechanical department staff	
10	<p>BE Mechanical ten students were participated in SAE-India Effycycle 2016 national level event at Lovely Professional University , Jalandhar, Punjab from 12-16 /10/2016 Under the guidance of Prof. V.V. Doijad&amp; Prof. I. D. More.</p> <p>Our college Team manufactured hybrid tricycle operated by both manually &amp; electrically. Total 125 colleges were participated in this competition from all over India&amp; 14 Colleges participated from Maharashtra. We got 26<sup>th</sup> all over India rank out of 105 teams. College gave technical as well as financial support of Rs.54000/-for manufacturing the vehicle. The vehicle was designed &amp; manufactured inside the campus by using workshop facilities under the guidance of mechanical department staff.</p>	12 <sup>th</sup> Oct. to 16 <sup>th</sup> Oct. 2016
11	A training of CATIA for students was conducted under DRE, Tata Technologies in the month of December. Prof. S. S. Todkar, Prof. U. P. Sutar, Prof. H. J. Nadaf, Prof. S. V. Dafade, Prof. P. H. Patil, Prof. S. H. Patil coordinated the training.	In the month of December
12	An expert lecture on “Basics of boiler and survival of boiler with non-conventional energy clubbing with management skills in association with Urjankur Shree Datta Power Co. Ltd., Dattanagar, Shirol by Er. Dhanendra Gadale (Asst. V. P.)	21 <sup>st</sup> Jan. 2017
13	“Engineous” event was organized in the department on 16/02/2017.	16 <sup>th</sup> Feb.2017
14	Departmental Parents Meet was organized on 09/03/2017.	9 <sup>th</sup> March 2017
15	An expert lecture on CAD-CAM was organized in the department for the final year students on 10/03/2017.	10 <sup>th</sup> March 2017.

- **Training and placement cell activities for the academic year 2016-17.**

<b>Sr. No.</b>	<b>Name of the activity</b>	<b>Guest/Expert</b>	<b>Participants</b>	<b>Activity date</b>
1	Aptitude test preparations	Sanir Kittur, Kolhapur	TE Students (60% above)	June 2016 50 hrs.
2	How to prepare for IES Examination	Vibhav Shrivastava MADE EASY Pune	BE Students	29 <sup>th</sup> July 2016
3	Necessary skills of employability	Afjal & Shailendra Soni, IMPDS, VTP, Kolhapur	BE Students	8 <sup>th</sup> Aug. to 9 <sup>th</sup> Aug. 2016
4	Opportunities in piping industries	Mr. Vaibhav Kumbhar, Kodoli	TE Students	9 <sup>th</sup> Aug. 2016
5	Seminar on inner personality	Rajech Chavan, Jeevan Sanjivani , Wai	TE and BE students	25 <sup>th</sup> Aug. to 27 <sup>th</sup> Aug. 2016
6	Employability skills preparation	Prof. Kulkarni and Prof. Chinde, Belgavi	BE(60% above)	16 <sup>th</sup> Sept. 2016
7	Soft skill techniques	Dr. Annasaheb Gurav, Shivaji Univ. Kolhapur	All TE Students	27 <sup>th</sup> Jan. 2016
8	Entrepreneur opportunities for Engineers	Mr. Sachin Sawant, Skill development, Kolhapur	All TE Students	27 <sup>th</sup> Jan. 2016
9	Aptitude training, Lead college activity	Mr. Raj Shekhar Naidu,	All TE Students	1 <sup>st</sup> Feb. to 3 <sup>rd</sup> Feb. 2017

		Aka Training Mumbai		
10	Soft skill training, Lead college activity	Salviya Jonson, Aka Training Mumbai	All TE Students	1 <sup>st</sup> Feb. to 3 <sup>rd</sup> Feb. 2017
11	Importance of aptitude test in GATE and Public Sector Exams	Amulya rattan, Vani institute, Pune	TE and BE students	1 <sup>st</sup> March 2017

- **Following is the list of companies in which the students of Mechanical Engineering Department have been selected. Total 58 students have been selected till the date.**

Sr. No	Name of the company
1	Indian Navy – Warana
2	Essar Pneumatics, Kolhapur
3	ICICI Prudential, Pune
4	TE Connectivity, Shirwal
5	Amazon -India-, Pune
6	Euroclima Pvt. Ltd, Mumbai
7	EICHER, Kolhapur
8	Adivik Hi Tech, Pune
9	Kaneri Industries. Kolhapur
10	Nishant Dhatukarmi Pvt. Ltd. Kagal
11	Kinetic, Pune
12	US Group, Pune
13	Sound Casting, Kolhapur
14	Lokesh machines
15	Filtrum Tools And Components Pune
16	Dunung Industries Kolhapur
17	J N Engineering Pune
18	Shri Diesels Kolhapur
19	Sumo Powar Diesels Kolhapur

20	Sai Engineering Pune
21	Varun Electricals Kolhapur
22	Shri Padmavati CNC Engineers, Hatkanangle

- **Expert lectures by staff**

- Expert session by Dr. A. N. Chapgaon, Prof. H. V. Shete & Prof. M. A. Sutar on “Guidance on Research & scope for M.E. Students” on 19<sup>th</sup> August 2016. This has helped the students for their project.



- Prof. M. A. Sutar conducted expert lecture on “Skill development to get employability” for AMP Mechanical department student dated 25<sup>th</sup> August 2016. The students got benefit to improve their skills to get the job.





- Prof. M. A. Sutar has given an expert lecture at AMGOI polytechnic on the subject of “Teaching aids for skill of students” on 18<sup>th</sup> January 2017.



- Expert Lecture on “Professional skills” for TE-(A & B) Div. by Dr.A. N. Chapgaon was organized on 14<sup>th</sup> July 2016 and for TE-(C & D) Div on 21<sup>st</sup> July 2016.
- Expert Lecture on “Research & Synopsis writing” by Dr. A. N. Chapgaon for BE Mechanical students on 28<sup>th</sup> July 2016.
- Prof. A. G. Sanadi given seminar on “Awareness about IES” on 8<sup>th</sup> August 2016.
- Prof. V. V. Doijad, Prof. S. S. Petkar& Prof. A. P. Nirmale delivered guest lecture on “Careers in HVAC” on 22<sup>nd</sup> September 2016.
- Prof. M. A. Sutar conducted expert lecture on “Iron-Iron carbide diagram in Metallurgy” for AMP Mechanical department students dated 25<sup>th</sup> August 2016.
- Prof. M. A. Sutar conducted expert lecture on “Iron-Iron carbide diagram in Metallurgy” for AMP Automobile department students dated 29<sup>th</sup> August 2016.
- Seven students have been awarded M E (Mechanical-Production) degree.
- MeghaMohite is the first student to whom M E- (Mechanical- Design) degree have been awarded. Prof. E. N. Aitavade was the project guide.

- **Following is the list of students who have been awarded PG Degree.**

<b>Name of Student</b>	<b>Specialization</b>	<b>Guide Name</b>
BODAKE SANTOSH NARESH	Mechanical-Production	Prof. Dr. A. J. Gujar
CHAVAN PRUTHVIRAJ CHANDRAKANT	Mechanical-Production	Prof. Dr. A. J. Gujar
CHAVAN ROHIT RAMCHANDRA	Mechanical-Production	Prof. Dr. A. N. Chapgaon
KULKARNI KISHOR KIRAN	Mechanical-Production	Prof. Dr. A. N. Chapgaon
MALI SAGAR UTTAM	Mechanical-Production	Prof. Dr. A. N. Chapgaon
MOHITE VIKRAM R.	Mechanical-Production	Prof. Dr. A. N. Chapgaon
MOMIN JAHID B.	Mechanical-Production	Prof. M. A. Sutar
MULIK ANIKET VILASRAO	Mechanical-Production	Prof. Dr. A. J. Gujar
MUMBARE PRAVIN PRABHAKAR	Mechanical-Production	Prof. Dr. A. J. Gujar
PATIL AMAR KALGONDA	Mechanical-Production	Prof. Dr. A. N. Chapgaon
PATIL ROHIT VASANT	Mechanical-Production	Prof. Dr. A. N. Chapgaon
PATIL SACHINKUMAR R.	Mechanical-Production	Prof. Dr. A. N. Chapgaon
SAYYAD SADIQ AMIR	Mechanical-Production	Prof. Dr. A. N. Chapgaon
SUTAR POOJA ASHOK	Mechanical-Production	Prof. Dr. A. J. Gujar
THAKUR PRANAV PRAKASH	Mechanical-Production	Prof. Dr. A. N. Chapgaon
MOHITE MEGHA	Mechanical-Design	Prof. E. N. Aitavade

- **Sponsored projects of BE students for the academic year 2016-17.**

<b>Title of Project</b>	<b>Student Name</b>	<b>Name of guide</b>	<b>Company Name</b>
Multipurpose dehusking machine	1. Pendhari Shahbaj A. 2. Pandey Pradeep S. 3. Chavan PrashantB. 4. Wake Pradeep S.	Prof. S.H. Patil	Kalpvrukha Krushi Prakriya Kendra, Belgaon
Engine performance and emission analysis by using cotton seed oil & Diesel (Biodiesel)	1. Belvalkar Chetan C. 2. Kedar Vasantao Patil 3. Power Nikhil Rajendra 4. Sandip Surendra Patil 5. Gholap Apoorva	Prof. H.A. Sarikar	SCS Renewable Energy PVt LTD Baramati
Design and fabrication of crop plantation machine	1. Atigre Pramod P. 2. Kadam AkshayB. 3. Patil Sarveshwar S. 4. Sawant Shrikrishna D.	Prof. N.D. Jadhav	SAMARTH Industries 595/2, Kolhapur Axel Backside MIDC Shiroli

• Faculty publications

Sr. No	Author	Title	Type of publication/ Date/ DOI	Publisher's Details/Place
1	Prof. Dr. A. N. Chapgaon	A review on effect of process parameters on electric Discharge Machining	June 16	International Journal for research in applied science& engineering technology , (IJRASET), ISSN: 2321-0613, vol.4(6), Jun-16
		Inventory control by linear & nonlinear demand forecasting	June 2016	Asian Review for Mechanical Engineering, vo.5(1) jan-June.2016
2		An experimental study of two phase(Air-water) flow characteristics on pipe vibration at atmospheric conditions	23 <sup>rd</sup> to 25 <sup>th</sup> Feb. 2017	ISME Conference
3		Effect of GTAW – SMAW hybrid welding process parameters on hardness of weld	11 <sup>th</sup> March 2017	ICETETA 2017
4		Optimization of cutting parameters for surface roughness and its influence on cutting force using RSM. for turning of Aluminium alloy LM13	18 <sup>th</sup> December 2016	3 <sup>rd</sup> International Conference on Recent Innovations in Science, Technology and Environment
5		Optimization of cutting parameters for surface roughness and its influence on cutting force using RSM. for turning of Aluminium alloy LM13	12 <sup>th</sup> December 2016	IJSTM
6		Optimization of cutting parameters for surface roughness and its influence on cutting force using RSM. for turning of Aluminium alloy LM13- A review	6 <sup>th</sup> June 2016	IJRISE
7		Optimization of cutting parameters for surface roughness and its influence on cutting force using RSM. for turning of Aluminium	19 <sup>th</sup> June 2016	ICRISTM

		alloy LM13- A review		
8	Prof. Dr. A. N. Chapgaon , Prof. H. A. Saraikar	Air condensation unit to get maximum potable water: A review	8 <sup>th</sup> Oct. to 9 <sup>th</sup> Oct. 2016	International conference on Recent Innovations in Engineering at HIT, Nidsoshi
9	Prof. Dr. Duradundi. S. Badkar	Effects of Laser Process Parameters on Overlapped Multipass Laser Hardened Bead Geometry of Ti-6Al-4V Titanium Alloy Using CW Spherical Beam Nd:YAG Laser	2017	Lasers in Engineering (LIE), Old City Publishing – LIE Home
10		Optimization of Surface Roughness of En8 Steel In CNC Turning Operation by Taguchi Concept	2016	International Journal of Advanced Technology in Engineering and Science (IJATES)
11		Robotic Supporting Leg for Handicapped People	2017	International Journal of Engineering Science and Computing (IJESC)
12		An Outcome Based Education (OBE): An Overview	2017	International Journal of Advanced Research In Education & Technology (IJARET)
13		Study on laser hardening parameters of ASTM grade 3 pure titanium on an angle of entry of hardened bead profile and power density	April 2017	International Research Journal of Material Science and Engineering
14		Research on Laser Hardened Bead Geometry in Laser Hardening of ASTM Grade 3 Pure Titanium	2017	Research & Reviews : Journal of Physics
15		An Outcome Based Education (OBE): An Overview	Jan-March 2017	International Journal of Advanced Research in Education & Technology
16		Robotic Supporting Leg for Handicapped people	Feb. 2017	International Journal of Engineering Science & Computing
17		Design and Development of New Mulching Machine for Agriculture	2017	Journal of Advances in Science & Technology
18		Design and Development of New Mulching Machine for Agriculture	10 - 11 March, 2017	Proceedings of National Conference on MECHANICAL ENGINEERING IN NEXT

				DECADE NC-MEND 2017
19		Experimental Investigation of Effect of Laser Process Parameters and Heat Input on Hardened Bead Geometry and Power Density of ASTM Grade 3 Pure Titanium using CW Laser Beam	16-18 FEBRUARY, 2017	Proceedings of <u>SECOND INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE (ICMS2017)</u>
20	Prof. E. N. Aitavade	Novel Continuous Variable Valve Lift (CVVL) Mechanisms for Throttle Free Load Control of SI Engine	May 2016	International Engineering Research Journal (IERJ) Volume 2 Issue 3 Page 901-909, 2016, ISSN 2395-1621
21		A Review on Investigation of Tribological Behavior of Nano coating for Piston Ring	March 2017	International Journal of Latest Technology in Engineering, Management and Applied Science (IJLTEMAS) Volume VI, Issue III, March 2017   ISSN 2278-2540 www.ijltemas.
22		Analysis and experimental validation for behavior (compression, tensile, fatigue etc.) of composite material helical compressive spring used for four wheeler suspension system.	May 2016	INTERNATIONAL JOURNAL OF INNOVATIONS IN ENGINEERING RESEARCH AND TECHNOLOGY [IJIERT] ISSN: 2394-3696 VOLUME 3, ISSUE5, MAY-2016
23		Mathematical Modeling and Experimental Validation of Modification of Mono-Tube Shock Absorber	2016	IJSRD - International Journal for Scientific Research & Development  Vol. 4, Issue 04, 2016   ISSN (online): 2321-0613
24		Advanced water irrigation system	26 <sup>th</sup> June 2016	ICITER-2016
25	Feedback assisted closed loop inspection control system.	26 <sup>th</sup> June 2016	ICITER-2016	
26	Prof. P. A. Patil	A Review on Investigation and Implementation of Lean Manufacturing in a Small Scale Industry for Effective Productivity	March 2017	IJIRST –International Journal for Innovative Research in Science & Technology  Volume 3   Issue 10   ISSN (online): 2349-6010

27		The Role of Universal Human Values in Life, in the success of Waranabazar consumer cooperative at Warananagar (MS)	11 <sup>th</sup> to 12 <sup>th</sup> June 2016	1 <sup>st</sup> International Conference on Universal Human Values Organized by the Bahá'í Academy, Panchgani
28		A Review on Design and Analysis of Gate valve using Various Computer Aided Techniques	March 2017	IJIRST Volume 3   Issue 10   March 2017 ISSN (online): 2349-6010
29		Automatic Headlamp Illumination Control System	March 2017	IJIRSET, Vol. 6, Issue 3, March 2017. ISSN(Online) : 2319-8753
30	Prof. A. P. Kanunje	“Optimization of Surface Roughness Using Taguchi Approach with Minimum Quantity Lubrication for Turning TN-8 Steel”	06 <sup>th</sup> Jan.2017 to 07 <sup>th</sup> July 2017	National conference at DACOE Karad
31		A review paper on Management Information Systems	April 2017	IJIR, Vol-3, Issue 4, ISSN:2454-1362
32	Prof. M. A. Sutar	A Review on Investigation and Implementation of Lean Manufacturing in a Small Scale Industry for Effective Productivity	March 2017	IJIRST –International Journal for Innovative Research in Science & Technology  Volume 3   Issue 10   ISSN (online): 2349-6010

- **Faculty participation in workshops, conferences and STTPs**

Sr. No.	Name of staff	Title	Organiser	Attended/ Organised	Duration
1	Prof. E. N. Aitavade	National Tribology Conference (NTC 2016)	IIT BHU	Attended	8 <sup>th</sup> to 10 <sup>th</sup> Dec. 2016
		ASM Conference MET 2016 & HTS 2016	CIDCO exhibition & convention centre, Mumbai	Attended	12 <sup>th</sup> to 14 <sup>th</sup> Oct. 2016
2	Prof. H. A. Saraikar	”Teaching Methodology” for BE Mech	JJM, College of Engineering Jaysingpur	Attended	19 <sup>th</sup> Aug. 2016
3	Prof. L. M. Pathak	”Teaching Methodology” for BE Mech	JJM, College of Engineering Jaysingpur	Attended	19 <sup>th</sup> Aug. 2016
4	Prof. R. P. Patil	“Virtual Lab Development of RAC”	KIT College of Engineering Kolhapur.	Attended	20 <sup>th</sup> Aug. 2016
5	Prof. R. A. Pasale	“Research Methodology and Patent Filing”	AMGOI, Vathar	Attended	7 <sup>th</sup> Jan. 2016
6	Prof. S. P. Nevagi	“Research Methodology and Patent Filing”	AMGOI, Vathar	Attended	7 <sup>th</sup> Jan. 2016
7	Prof. S. P. Nevagi	“Teaching Practices and Accreditation Awareness”	AMP, Vathar	Attended	16 <sup>th</sup> to 20 <sup>th</sup> Jan. 2017
8	Prof. M. A.	How to write	AMGOI, Vathar	Attended	15 <sup>th</sup> Feb.



	Sutar	a book and access of E resources			2017
9	Prof. M. A. Sutar	Teaching practices and accreditation awareness for polytechnic faculties”	AMGOI polytechnic	Attended	16 <sup>th</sup> to 20 <sup>th</sup> Jan. 2017
10	Prof. R. A. Pasale	How to write a book and access of E resources	AMGOI, Vathar	Attended	15 <sup>th</sup> Feb. 2017
11	Prof. H. A. Saraikar	How to write a book and access of E resources	AMGOI, Vathar	Attended	15 <sup>th</sup> Feb. 2017

- **Prof. H. A. Saraikar has registered for PhD at VTU.**

- **Prof. E. N. Aitavade has attended ASM conference at CIDCO exhibition and convention centre, Vashi, Navi Mumbai.**
- Institute has chapter sustaining membership of ASM International. Under this Prof. E. N. Aitavade and eight students from Mechanical Engineering department attended ASM conference MET 2016 and HTS 2016 at CIDCO exhibition and convention centre, Vashi, Navi Mumbai. Inauguration was done by Shri Manohar Parrikar ( Hon. Minister of Defence Govt. of India), and guests of honour were Shri Devendra Fadanvis, Hon. Chief Minister of Maharashtra, and Shri Sajjan Jindal, Chairman and Managing Director, JSW group.



- **Prof. E. N. Aitavade has attended Nation Tribology Conference (NTC2016) at IIT-BHU from 8<sup>th</sup> -10<sup>th</sup> Dec. 2016.**
- National Tribology Conference was held at IIT BHU Dec 8-10, 2016. The theme of the conference was Tribology for sustainable development. The objectives of the conference were as below.
- To discuss the current practices and challenges in Green Tribology
- To explore Tribology Practices as a tool for sustainable development
- To discuss the emerging technologies such as Nano & Bio-Tribology
- To showcase the advancements in lubrication, coatings, bearings and wear resistant materials.
- To provide an opportunity to manufacturers to display their state of art tribo-equipments & products and services



- **Fresher's welcome was organized in the department on 22<sup>nd</sup> September 2016. The students participated in the different activities organized by the department.**



• **Student achievements**

Sr. No.	Name of Student	Class	Date	Name of Event & Place	Participation in	Level	Rank/ Partn.
1	Kante Shubham N.	BE	12 <sup>th</sup> Oct. 2016	SAEINDIA-Efficycle-INDIA LOVELY PROFESSIONAL UNI. PUNJAB	SAEINDIA, Efficycle- 2016	N	Partn.
2	Patil Nipun S.	BE	12 <sup>th</sup> Oct. 2016	SAEINDIA-Efficycle-INDIA LOVELY PROFESSIONAL UNI. PUNJAB	SAEINDIA, Efficycle- 2016	N	Partn.
3	Kibile Pratik S.	BE	12 <sup>th</sup> Oct. 2016	SAEINDIA-Efficycle-INDIA LOVELY PROFESSIONAL UNI. PUNJAB	SAEINDIA, Efficycle- 2016	N	Partn.
4	Solankure Utkarsha	BE	12 <sup>th</sup> Oct. 2016	SAEINDIA-Efficycle-INDIA LOVELY PROFESSIONAL UNI. PUNJAB	SAEINDIA, Efficycle- 2016	N	Partn.
5	Kurane Stephan	BE	12 <sup>th</sup> Oct. 2016	SAEINDIA-Efficycle-INDIA LOVELY PROFESSIONAL UNI. PUNJAB	SAEINDIA, Efficycle- 2016	N	Partn.
6	Jadhav Rohini K.	BE	12 <sup>th</sup> Oct. 2016	SAEINDIA-Efficycle-INDIA LOVELY PROFESSIONAL UNI. PUNJAB	SAEINDIA, Efficycle- 2016	N	Partn.
7	Dhokare Raj D.	BE	24 <sup>th</sup> July 2016	BAJA SAEINDIA 2017 CHRIST UNIVERSITY BENGLURU		N	Partn.
8	Gundale Harshwardhan S.	BE	24 <sup>th</sup> July 2016	BAJA SAEINDIA 2017 CHRIST UNIVERSITY BENGLURU	SAEINDIA BAJA 2017	N	Partn.

9	Hanchnale Pranit G.	BE	24 <sup>th</sup> July 2016	BAJA SAEINDIA 2017 CHRIST UNIVERSITY BENGLURU	SAEINDIA BAJA 2017	N	Partn.
10	Karande Rahul R.	BE	24 <sup>th</sup> July 2016	BAJA SAEINDIA 2017 CHRIST UNIVERSITY BENGLURU	SAEINDIA BAJA 2017	N	Partn.
11	Dhokare Raj D.	BE	1 <sup>st</sup> Oct. 2016	REFLEX 2K16 AMGOI VATHAR	PAPER PRESENTATION	N	Partn.
12	Karande Rahul R.	BE	1 <sup>st</sup> Oct. 2016	REFLEX 2K16 AMGOI VATHAR	PAPER PRESENTATION	N	Partn.
13	Hujare Nipun S.	BE	16 <sup>th</sup> Feb. 2017	ENGENIOUS 2K17 AMGOI VATHAR	CHANAKYA Quiz competition	N	1 <sup>st</sup> PRIZE
14	Kelkar Navnath V.	BE	16 <sup>th</sup> Feb. 2017	ENGENIOUS 2K17 AMGOI VATHAR	CHANAKYA Quiz competition	N	1 <sup>st</sup> PRIZE
15	Gurav Suraj B.	BE	10 <sup>th</sup> March 2017	E VISION 2K17 AMGOI VATHAR	Project competition	N	Participated
16	1)Padwal Niranjn T. 2)Nandgaonkar Sachin D. 3)Suryawanshi Vishwas R. 4)Mali Ramchandra D.	BE	22 <sup>nd</sup> Dec. 2016	AVISHKAR 2016-17	Project competition	N	2 <sup>nd</sup> rank
17	1)Padawal Niranjn T. 2)Nandgaonkar Sachin D. 3)Suryawanshi Vishwas R. 4)Mali R. D.	BE	10 <sup>th</sup> March 2017	NC-MEIND GCE Karad	Paper presentation	N	Partn.
			25 <sup>th</sup> Dec. 2016	Dr.Ghali college of engineering Gadhinglaj	Project competition		2 <sup>nd</sup> prize in Kolhapur District

18	Sutar Pooja N.	BE	1 <sup>st</sup> Oct. 2016	REFLEX 2K16 AMGOI VATHAR	Paper presentation	N	1 <sup>st</sup> Rank
19	Pravin Sambhaji Gaikwad	BE	1 <sup>st</sup> Oct. 2016	REFLEX 2K16 VATHAR	Paper presentation	N	1 <sup>st</sup> Rank
			4 <sup>th</sup> March 2017	ENVISION 2017 JJMCOE	Paper presentation	N	2 <sup>nd</sup>
			18 <sup>th</sup> Feb. 2017	INNOVATION 2K17, SIT Yadrav	Paper presentation	N	3 <sup>rd</sup>
			16 <sup>th</sup> Feb. 2017	ENGINEOUS, AMGOI, VATHAR	Paper presentation	N	2 <sup>nd</sup>
			2 <sup>nd</sup> March 2017	INNOVATION 2K17, ADCET ASHTA	Paper presentation	N	1 <sup>st</sup>

- BE Mechanical students participated in SAE-India Effycycle 2016 national level event at Lovely Professional University, Jalandhar, Punjab from 12<sup>th</sup> to 16<sup>th</sup> Oct. 2016 under the guidance of Prof. V.V. Doijad and Prof. I. D. More. Our college Team manufactured hybrid tricycle operated by both manually and electrically. Total 125 colleges were participated in this competition from all over India and 14 Colleges participated from Maharashtra. The team got 26<sup>th</sup> all over India rank out of 105 teams. College gave technical as well as financial support of Rs.54000/-for manufacturing the vehicle. The vehicle was designed and manufactured inside the campus by using workshop facilities under the guidance of mechanical department staff.

