



Shrama Sadhana Bombay Trust's  
**College of Engineering & Technology, Bambhori, Jalgaon**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**GRAVITY**

Volume IV

Newsletter: Jan 2014 –July2014

Mechanical Engineering is one of the major activities in the engineering profession and its principles are involved in the design, study, development and construction of nearly all of the physical devices and systems. Continued research and development have led to better machines and processes helping the mankind.



#### **VISION**

Today we carry the flame of quality education, knowledge and progressive technology for global, societal development; tomorrow the flame will glow even brighter.

#### **MISSION**

To produce conducive environment for preparing competent, value added and patriotic engineers of integrity of par excellence to meet global standards for societal development.

#### **DEPARTMENT VISION**

To nurture the students by providing high quality broad based technical education for global societal development and continuous improvement in value added knowledge

#### **DEPARTMENT MISSION**

To cultivate a conducive environment through teaching, application specific learning and services to foster the technical critical thinking ability of the students as well as the faculties to contribute for developing global mechanical engineering professionals and well being of the society.

**TEACHING STAFF**

No.	Name	Qualification	No.	Name	Qualification
1	Dr. D. S. Deshmukh Professor and H.O.D.	D.M.E., B.E. M. Tech. Ph.D. in Mechanical Engineering	13	Mr. D.C.Talele Asst. Professor	M.Tech (Cad/ Cam) B.E.(Mech.),
2	Mr. N.K. Patil Asso. Professor	ME (Machine Design), M.Tech (Energy), M.B.A., Ph. D (Pursuing)	14	Dr. P.P. Bornare Asst. Professor	M.E.(Pursuing), B.E.( Mech.), M.B.A. (Marketing & H.R.), PhD(Management)
3	Mr. K.S. Shrivastava Asso. Professor	Ph. D (Pursuing) M.E.(Heat power),	15	Mr. C.K. Mukherjee Asst. Professor	M.E.(Pursuing) B.E.(Mech.),
4	Mr. S.P. Shekhawat Asso. Professor	Ph. D (Pursuing) ME(Machine Design),	16	Mrs. J.R. Surange Asst. Professor	M.E.(Pursuing) B.E. (Prod.)
5	Mr. M.V. Rawlani Asso. Professor	M.E.(Mechanical)	17	Mr. M.D. Hadpe Asst. Professor	M.E.(Pursuing), B.E.(Mech.), MBA
6	Mr. P.G. Damle Asso. Professor	Ph. D Pursuing ME(Machine Design),	18	Mr. K.G. Girase Asst. Professor	M.E.(Pursuing) B.E.(Mech.),
7	Mr. D.B. Sadaphale Asst. Professor	ME(Machine Design)	19	Mr. A.V. Rajput Asst. Professor	M.E.(Pursuing) B.E.(Mech.),
8	Mr. P.N. Ulhe Asst. Professor	ME(Machine Design)	20	Ms. S. A. Mahajan Asst. Professor	B.E.(Mech.)
9	Mr. P.M. Solanki Asst. Professor	M.E. (CAD/CAM)	21	Mr. R. V. Rajput Asst. Professor	B.E.(Mech.)
10	Mr. P.D. Patil Asst. Professor	M.E. (CAD/CAM)	22	Mr. S. A. Rajput	B.E.(Mech.)
11	Mr. M.V. Kulkarni Asst. Professor	M.Tech(Thermal) B.E.(Mech.)	23	Mr. P.S. Nandanwar Asst. Professor	M.E.(Pursuing) B.E.(Mech.),
12	Mr. A.R. Bhardwaj Asst. Professor	M.E.(Machine Design)	24	Mr. Y. M. Bhamare Asst. Professor	M.E.(Pursuing) B.E.(Mech.),



## THE TOP TEN SKILLS THAT EMPLOYERS WANT:

<b><u>VERBAL COMMUNICATION</u></b>	Able to express your ideas clearly and confidently in speech
<b><u>TEAMWORK</u></b>	Work confidently within a group
<b><u>COMMERCIAL AWARENESS</u></b>	Understand the commercial realities affecting the organization.
<b><u>ANALYSING &amp; INVESTIGATING</u></b>	Gather information systematically to establish facts & principles. Problem solving.
<b><u>INITIATIVE/SELF MOTIVATION</u></b>	Able to act on initiative, identify opportunities & proactive in putting forward ideas & solutions
<b><u>DRIVE</u></b>	Determination to get things done. Make things happen & constantly looking for better ways of doing things.
<b><u>WRITTEN COMMUNICATION</u></b>	Able to express yourself clearly in writing
<b><u>PLANNING &amp; ORGANISING</u></b>	Able to plan activities & carry them through effectively
<b><u>FLEXIBILITY</u></b>	Adapt successfully to changing situations & environments
<b><u>TIME MANAGEMENT</u></b>	Manage time effectively, prioritising tasks and able to work to deadlines.
<b><u>GLOBAL SKILLS</u></b>	Able to speak and understand other languages. Appreciation of other cultures.
<b><u>NEGOTIATING &amp; PERSUADING</u></b>	Able to influence and convince others, to discuss and reach agreement.
<b><u>LEADERSHIP</u></b>	Able to motivate and direct others
<b><u>NUMERACY</u></b>	Multiply & divide accurately, calculate percentages, use statistics & a calculator, interpret graphs & tables.
<b><u>COMPUTING SKILLS</u></b>	Word-processing, using databases, spreadsheets, the Internet & email, designing web pages etc.
<b><u>SELF AWARENESS</u></b>	Awareness of achievements, abilities, values & weaknesses & what you want out of life.
<b><u>PERSONAL IMPACT/CONFIDENCE</u></b>	Presents a strong, professional, positive image to others which inspires confidence & commands respect.
<b><u>LIFELONG LEARNING</u></b>	Continues to learn throughout life. Develops the competencies needed for current & future roles
<b><u>STRESS TOLERANCE</u></b>	Maintains effective performance under pressure
<b><u>INTEGRITY</u></b>	Adheres to standards & procedures, maintains confidentiality and questions inappropriate behaviour.
<b><u>INDEPENDENCE</u></b>	Accepts responsibility for views & actions and able to work under their own direction & initiative.
<b><u>DEVELOPING PROFESSIONALISM</u></b>	Pays care & attention to quality in all their work. Supports & empowers others.
<b><u>ACTION PLANNING</u></b>	Able to decide what steps are needed to achieve particular goals and then implement these.
<b><u>DECISION-MAKING</u></b>	Determines the best course of action. Evaluates options based on logic & fact & presents solutions
<b><u>INTERPERSONAL SENSITIVITY</u></b>	Recognises & respects different perspectives. Open to the ideas & views of others
<b><u>CREATIVITY</u></b>	Generates & applying new ideas & solutions
<b><u>VERBAL COMMUNICATION</u></b>	Able to express your ideas clearly and confidently in speech
<b><u>TEAMWORK</u></b>	Work confidently within a group
<b><u>COMMERCIAL AWARENESS</u></b>	Understand the commercial realities affecting the organization.

## STUDENTS ACHIEVEMENTS-CO CURRICULAR

Sr. No.	NAME OF STUDENT	PROJECT/PAPER PRESENTED ON	PLACE OF EVENT	PRIZE
1.	Ashish Jambhale, Narsimha Yelgamwar, Vikas, Jaikishan Pasi Govinda Yadav	Eco-Friendly Energy Efficient Air Conditioning System with Enhanced Cooling Effect	ELECRAMA-14, Bangalore	2 <sup>nd</sup>
2.	Anuja Saxena, Sainath tiwari, Anikit Saraswat, Faisal Ansari Prathik Lathi	Development of Economic & efficient air cooler	ELECRAMA-14, Bangalore	3 <sup>rd</sup>
3.	Anuj Saxena, Vikas, Durgesh Singh Chavan, Mithun Pujari	Design of LUNAR ROVAR Challenge	Shaastra, IIT Madras	7 <sup>th</sup> Rank All Over India.
4.	Patil Vivek, Barse santosh, Wani Bhagwat	Self Lightening Garden by Human Power Operatin Devices	Karmaveer Expo-2014-A National Level Working Model Contest, K.K.Wagh Inst. Of Technology, Nasik	3 <sup>rd</sup>
5.	Patil Vivek, Barse santosh, Ahirrao Chetan	Poster Presentation-“Human Powered Operating Devices”	P.B.College Of Engg., Nagpur	2 <sup>nd</sup>
6.	Santosh Barse	Poster Presentation-“Human Powered Operating Devices”	College of Engg. Shegaon, A National Level Poster Presentaion	1 <sup>st</sup>
7.	Mandar Joshi	Cryogenic Machining	Milestone2K14	1st
8.	Neelam Sainani		Milestone2K14	2 <sup>nd</sup>
9.	Ajay Patil, Vishal Wani	Shape Memory Alloy	Milestone2K14	3 <sup>rd</sup>
10.	Ashish Jambhale, Narsimha Yelgamwar, Vikas, Jaikishan Pasi, Govinda Yadav	Eco- Friendly Energy Efficient Air Conditioning System with Enhanced Cooling Effect	BRY AIR AWARD Delhi	



Article in News Paper (Elecrama)



Students Visit at IIT Bombay-Halios-14



Winner –KARMAVEER EXPO-14

## STUDENTS ACHIEVEMENTS-EXTRA CURRICULAR

Name Of students	Place	Position
<b>Chess</b>		
Saindane Kapil Ashok	Pankaj Arts, Comm. College, Chopda	Winner
<b>Kho-Kho</b>		
Shinde Vipin Chandrakantrao, Nannaware Sharad, Shankar, Shelke Vivek Tejraoji, Patil Vivek Dharamsing	Arts, Comm. & Sci. College, Chopda	4 <sup>th</sup> Place
<b>Basketball</b>		
Deepak Yadav , Anshuman Agrawal, Mandar Joshi, Lalit Babu Saxena	SSBT's COET, Bambhori, Jalgaon.	Winner
<b>Badminton</b>		
Sainani Nilam Kishor	BP Arts, Comm. & Science College, Chalisgaon	Winner
<b>Volley Ball</b>		
Anand Kumar, Patel Manthan Dharmeshbhai, Yashraj Pawar	Dhandai Arts College, Amalner	3 <sup>rd</sup>
<b>Cricket</b>		
Raj Dhummal, Bhadane Viki R., Patil Pushjeet P., Sukesh Kumar, Nikam Nikhil Y., Chinchole Tushar S.	BP Arts, Comm. & Sci. College, Chalisgaon	Winner
<b>Kabaddi</b>		
Nerlikar Aniket A., Bhagat Swapnil S., Patil Nikhil K.r, Aware Sudhir S., Rajput Harshal P.	Arts College, Marwad, Amalner	3 <sup>rd</sup>
<b>Hand Ball</b>		
Pramod Tavade, Sharad Nannaware, Rupesh Thakare, Yadav Brijesh, Ghodmare Vinayak P., Shinde Mayur S.	NYNC Arts, Comm. & Sci. College, Chalisgaon	3 <sup>rd</sup>

## FACULTY ACHIEVEMENTS

### International Journals

1. Sunilising Rajput and Dr. D.S. Deshmukh, published a paper entitled “Prediction & Control of Chatter in Milling Machine Spindle-Tool Unit -A Review” in International Journal of Innovative Research in Science, Engineering and Technology (IJRSET), Volume 3, Special Issue 4, April 2014, PP 47-52, ISSN (Online) : 2319 – 8753, ISSN (Print) : 2347 – 6710.
2. Shinde Dinesh, Dr. D.S. Deshmukh and D.R. Patil, published a research paper entitled “Design Optimization of Automobile Suspension System using Hybrid Optimization Technique” Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET’2014), March 28th to 30th 2014, published by Elsevier, a division of Reed Elsevier India Private Limited, ISBN: 978 – 93 – 5107- 222-5 (The Articles covered in this proceeding have been peer reviewed & copyright @ 2014 by the publisher, the editors & the authors).
3. Prashant Sudhiranjan Rade, Prof. Dr. Dheeraj Deshmukh and Swapnil S. Kulkarni, published a paper entitled “Investigation of adhesive joint shear strength for a braking system” in International Journal of Advanced Engineering Research and Studies (IJAERS), E-ISSN2249–8974, Vol No :III, Issue No.: II, IJAERS / Vol., Manuscript Id : IJAERS/588, Journal Url: www.technicaljournalsonline.com, Int. J. Adv. Engg. Res. Studies/III/II/Jan.-March.,2014/58-61
4. Krishna Shrivastava, Dr. Dhiraj Deshmukh and M.V.Rawlani, published a research paper entitled “Experimental Analysis of Coconut Coir Pad Evaporative Cooler” in International Journal of Innovative Research in Science, Engineering and Technology (IJRSET), ISSN: 2319-8753, Vol. 3, Issue 1, January 2014, Page No. 8346 – 8352.
5. Jagruti R. Surange, Navneet K. Patil Akhilesh V. Rajput, “Performance Analysis of Burners used in LPG Cooking Stove-A Review”, International Journal of Innovative Research in Science, Engineering and Technology Vol. 2, Issue 9, September 2014 Vol. 2, Issue 9, September 2014, ISSN: 2319-8753

### International Conferences:

1. Izzhak D. Paul and Dr. Dheeraj S. Deshmukh, presented paper at International Conference on Sustainable Development 2014, titled “Application of Solar Dryer For Vegetables And Fruits – A” organized by S.S.B.T.’s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014 page no. 71-79.
2. P.P Patil, Dr. Dheeraj S. Deshmukh and R. Y. Patil, presented paper at International Conference on Sustainable Development 2014, titled “Design Consideration of Flat Plate Solar Water Heater –A Review” organized by S.S.B.T.’s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014 page no. 39-50.
3. P.N Patil, Dr. Dheeraj S. Deshmukh and P. G. Patil, presented paper at International Conference on Sustainable Development 2014, titled “Review of current Development and selection of Turbines for Microhydro power plant” organized by S.S.B.T.’s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014 page no. 522-538.
4. P. M. Solanki, Dr. Dheeraj S. Deshmukh and Dr. K. S. Patil, presented paper at International Conference on Sustainable Development 2014, titled “Energy Recovery using Thermoelectric Generators: A critical Review” organized by S.S.B.T.’s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014 page no. 80-90.
5. Dr. Prashant P. Bornare, Dr. Dheeraj S. Deshmukh and R.Y. Patil, presented paper at International Conference on Sustainable Development 2014, titled “Investigation of Backpressure Phenomenon for an Exhaust System of Single Cylinder C. I. Engine” organized by S.S.B.T.’s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014 page no 219-233.
6. Mahesh V. Kulkarni, Dr. Dheeraj S. Deshmukh and Dipak C. Talele, presented paper at International Conference on Sustainable Development 2014, titled “Solar Water Heater Collector Testing Methodology”



organized by S.S.B.T.'s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014.

7. Dipak C. Talele, Dr. Dheeraj S. Deshmukh and Mahesh V. Kulkarni, presented paper at International Conference on Sustainable Development 2014, titled "Simulation & parametric Finite element analysis for sheet metal forming process" organized by S.S.B.T.'s, College of Engineering & Technology, Bambhori, Jalgaon, on dated 25th- 26th February 2014.
8. D.S. Deshmukh and M.S. Deshmukh, paper presented at a national level technical Symposium, titled "Reduction of emission using Catalytic Converter" held at L.I.T. Nagpur, VERVE2K3.
9. K.G. Girase, N.K.Patil "Comparative Analysis of Twin And Mono Tube Shock Absorber" Sustainable Technology, PRATIBHA INTERNATIONAL CONFERENCE-2014
10. Jagruti R. Surange<sup>1</sup>, Navneet K. Patil and Dipak C. Talele<sup>3</sup>, "Effect Of Weld Nozzle Geometry Variations In GMAW Process-A Review" 2014, INTERNATIONAL CONFERENCE ON ENGINEERING, MODELLING AND SIMULATION ICMSET2014,15-16 FEBRUARY.2014
11. Akhilesh V.Rajput, Navneet K. Patil, "Bumper Crash Testing Subjected to offset Impact Loading", INTERNATIONAL CONFERENCE ON ENGINEERING, MODELLING AND SIMULATION ICMSET2014,15-16 FEBRUARY.2014



FAREWELL 2013-14



MILESTONE 2K14



Parent's Meet-2014



MILESTONE-2K14 TEAM



Falicitation of ELECRAMA WINNERS





## DEPARTMENTAL EVENTS



Visit of NBA Team Programme Evaluators & Chairman to Department



ShodhPrakalp Pratiyogita 2014



Industrial Visit To Kiran Machine Tools



Industrial Visit at A.C.G.L., Goa



CMM -Workshop for TE Students



Guest Lecture by Dr. R. K. Mandloi



Expert Lecture by Alumni



UNIVERSITY LEVEL PROJECT EXHIBITION-FE

## COMMITTEE

**Dr. D. S. Deshmukh**  
HOD (Mech)

**Er. N.K. Patil**  
MESA Faculty Adviser

**Er. M.V. Rawlani**  
MESA Faculty Adviser