



Prof. (Dr.) Bimlesh Kumar

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CURRICULUM VITAE



1. **NAME IN FULL** : Dr. BIMLESH KUMAR
2. **DATE OF BIRTH** : 15th November 1963.
3. **DESIGNATION** : PRINCIPAL

4. DEGREE OBTAINED, INSTITUTION, YEAR AND SPECIALISATION:

Sr.No	Degree	Specialization	University	Year	Remark
1	Ph. D.	Mechanical Engineering	NIT Jamshedpur	Jan-2002	-----
2	M.E	Mechanical Engineering	SUK Kolhapur	1996	I st Class
3	B.E	Automobile Engineering	SUK Kolhapur	1990	I st Class with Dist.
4	D.Litt	Doctor of Letters	University of south America	Apr-2018	-----

5. EMPLOYMENT RECORD IN INSTITUTION AND SO ON (IN ORDER STARTING FROM PRESENT POSITION):

Sr.No	Institution	Period	Post
1	Government Polytechnic Purnea (Bihar)	25-02-2020 to till Date	Principal
2	Government Polytechnic, Aurangabad(Bihar) 824102	14 th Mar To 24-02-2020	Principal
3	Sant Gajanan Maharaj College of Engineering, Mahagaon- site Chinchewadi, 416503	19 th Mar-2016To 13 th Mar 2019	Principal
4	J T Mahajan College of Engineering, Fauizpur- 425524	9 th Apr 2009 To 18 th Mar 2016	Principal
5	SVERI's College of Engineering, Pandharpur-413304 Dist. Solapur	1 st Aug 2007 To 8 th Apr 2009	Principal
6	SVERI's College of Engineering, Pandharpur-413304 Dist. Solapur	18 th Sep.2002 To 31 th Jul 2007	Prof. HOD Mechanici Engg.
7	Rajarambapu Institute of Technology, Sakharale, Dist. Sangli.	1 st Nov 2001 To 17 th Sep 2002	Asst. Prof. In Auto. Engg. Dept.
8	Rajarambapu Institute of Technology, Sakharale, Dist. Sangli.	1 st Oct 1998 To 31 st Oct 2001	Sr. Lect. In Auto. Engg. Dept.
9	Rajarambapu Institute of Technology, Sakharale, Dist. Sangli.	20 th jul 1990 To 30 th Sep 1998	Lect. In Auto. Engg. Dept.

6. ACADEMIC EXPERIENCE:

a) Teaching Experience:

- i) Under Graduate in Engineering: **30 years**
- ii) Post Graduate (M.E. Mechanical-Design): **18 years**
- iii) Supervised several seminars and Projects of final year B. E, M. E. and Ph.D students.

b) Recognised by the Shivaji University, Kolhapur for

- i) Ph.D. Recognised Guide
- ii) Guiding Ph. D. Students at S.U., Kolhapur

c) Recognised by the Solapur University, Solapur as

- i) M.E. Guide for Post Graduate teaching.
- ii) Guiding the M.E. students by research
- iii) Ph.D. Recognised Guide
- iv) Guiding Ph. D. Students at N.M.U., Jalgaon

d) Recognised by Bharti Vidyapeeth University, Pune

- i) Ph D Recognised Guide
- ii) Guiding Ph.D. Student

e) Recognised by Singhania University, Rajasthan

- i) Ph.D. Recognised Guide

f) Recognised by Tiberalla University, Rajasthan

- i) Ph.D. Recognised Guide

g) Recognised research Guide by Satyabhama University, Chennai

h) Guidance to the Post Graduate Students

Guided Fifteen **M. E.** students in Shivaji University, Kolhapur/ North Maharashtra University, Jalgaon.

Topics of M. E. students Dissertation:

- i) Theoretical and Experimental Study of Cantilever Type Main System to which Multimass (Two Mass) Dynamic Vibration Absorbers are attached.
- ii) Theoretical and Experimental Analysis of Fixed – Fixed Type Main System to which Active Vibration Absorber attached.
- iii) Design, Development and Dynamic Response Analysis of Dynamic Isolator Using Electro rheological Fluid.
- iv) Gear Box Vibration Analysis and Fault Diagnosis of Gear Teeth by Application of Condition Monitoring Techniques.
- v) Condition Monitoring of a Single Point Cutting Tool of a CNC Lathe Machine.

- vi) Detecting Gear Tooth Breakage Using Acoustic Emission Technique.
- vii) Vibration Analysis of Horizontal Pump Shaft Supported on Two Bearings.
- viii) Seismic Analysis of a Ten Feet Size a Split Casing Type Centrifugal Pump.
- ix) Theoretical and Experimental Study to Identification of Crack Location in Vibrating Simply Supported Beam.

j) Number of Ph.D. Research scholar guided- 12

Ph.D. Researches Scholar completed their research work successfully under my supervision and guidance under “Solapur University, Solapur”-03. Name of Research Topics are as follows:-

1. *“Some Theoretical & Experimental studies on ER Dampers in Semi active suspension Systems for road vehicles”. – In the Year 2012.*
2. *“Performance Analysis of four Stroke S.I. Engine using upgraded Bio-Gas fuel”. – In the Year 2013.*
3. *“Analysis of particle vibration damper for Controlling the Amplitude of Vibration”. – In the Year 2014.*

Ph.D. Researches Scholar completed their research work successfully under my supervision and guidance under “North Maharashtra University, Jalgaon”-08. Name of Research Topics are as follows:-

1. *“Vibration Analysis and Control of Piezo Electric smart structures by finite element method”. – In the Year 2014.*
2. *“Statistical Modelling for Noise & Vibration of Ceiling fan”. - In the Year 2015.*
3. *“Some studies on Alumina – Zirconia Nano Composite toughened – Rubber Vibration Damper”.- In the Year 2016.*
4. *“Performance Evaluation & Mathematical Model formulation of shape memory alloy Super Elastic helical Spring to control a structural Vibration in Cantilever beam”. – In the Year 2016.*
5. *“Limit load estimation of cylindrical vessel with Oblique Nozzle”- in the year 2017.*

6. *“Stress Analysis of Perforated Tube Sheet functioned for Pressure Vessels using Experimental, Numerical and Finite Element method”- in the year 2017.*
7. *“Optimal vibration control of a smart structural element” - in the year 2017.*
8. *“Comparison of effects of cryogenic treatment on different types of steels” – in the year 2018.*

k) Ph.D. Researches Scholar completed their research work successfully under my supervision and guidance under “Indira Gandhi Open University, Delhi”-01. Name of Research Topics are as follows:

1. *“Magneto Rheological Elastomers for Controlling the Noise and Vibration of Automotive Vehicles”.- Indira Gandhi Open University, New Delhi*

National

- i) Free vibration study and laminated composite non – circular cylindrical shells
- ii) Study of dynamic behaviour of rigid rotor under inherent imbalance and shaft offsetting and its diagnosis.
- iii) Balancing of reciprocating compressors.
- iv) Design and development of impact damper to maintain vibration standard in machine and machine tool structures.
- v) Optimisation for weight reduction of lower link of Mc pherson strut suspension system of a passenger car.
- vi) Mould design and computer aided flow analysis for rear grommet in multi channel connectors.
- vii) Dynamic stress analysis and natural frequency analysis of carbon- epoxy composite shaft for high speed application.
- viii) Theoretical and experimental analysis of multi-mass (two-mass) dynamic vibration absorbers for continuous system.
- ix) Study and analysis of crack in simply supported beam using experimental technique and verification by F.E.M.
- x) Worked as paper reviewer for the international conference on Sunrise technology organized by SSVPS COE & Polytechnic, Dhule from 13-15 Jan 2011.

- xi) Worked as session chairman in the international conference on Sunrise technology organized by SSVPS COE & Polytechnic, Dhule from 13-15 Jan 2011.

International

- i) Reviewed a paper on “Dynamic characteristics of cantilever beam with transverse cracks” for international journal of acoustic and vibration (IJAV).
- ii) Reviewed a paper on “Influence of shift work in process industry on workers occupational health productivity, family and social life: an ergonomic approach.” for international journal of Human Factors and Ergonomic in Manufacturing and Service industries published by Wiley U.S.A.
- iii) Worked on the editorial Board for the international journal of research in Engineering, Science & Technology, ISSN-2229-5135 published by SSVPS COE , Dhule.
- iv) Worked as Editor -in -Chief of International Journal of Innovations in Mechanical & Automobile engineering (IJIMAE) ISSN: 2249-2968.

n) Resource Person for the subjects

- i) **“Strategies for Product Design and Development”**, STTP (1999), R. I. T., Sakharale.
- ii) **“Methods of Vibration Control”**, National Conference on Machine Design (2004) at Amrutvahini College of Engineering, Sangamner.
- iii) **“Some Aspects of Computer Aided Design and Analysis of Vibration Control System”**, STTP (2004) at Amrutvahini College of Engineering, Sangamner.
- iv) **“Methods of Vibration Control”**, STTP 2006 from 18th Dec. to 22nd Dec. 2006 at C.O.E., Pandharpur.
- v) **“Causes, Effects and Control of Mechanical Vibration for Practical Application”** Three Days National Seminar on Mechanical Vibrations – Analysis and Diagnosis Sponsored by A.I.C.T.E, New Delhi from 22nd to 24th March 2007 organize by Department of Mechanical Engineering, Pravara Rural Engineering College, Loni.
- vi) **“Research Methodology”** STTP (2010) dated 19th to 24th April at SSGBCOET, Bhusawal.
- vii) **“Advances in Tribology”** STTP (2010) dated 25th to 29th October at SSBT COET, Jalgaon.
- viii) **“Recent Trends in Automotive Engineering”** STTP-2011 dated 27-29 Dec 2011 at rajendra Mane college of Engineering & technology, Ambav (Devrukh).

o) Worked as Subject Expert

- i) In Mechanical – Production Group in 1st **National Level Technical Symposium KSHITIJ-2004** at COE, Pandharpur.
- ii) Worked as a judge in Automobile group in **National Level Technical Paper Presentation “QUANTUM 2005”** at RIT, Sakharale.
- iii) Worked as **Subject Expert** in Mechanical Group in 2nd **National Level Technical Symposium KSHITIJ-2005** at COE, Pandharpur
- iv) Worked as **Expert** on the **Selection Committee** appointed by **Shivaji University, Kolhapur** for the **Selection of Professors and Teaching Staff** teaching to U. G. and P. G. at W.C.E., Sangli
- v) Worked as **Expert** on the **Selection Committee** appointed by **Solapur University, Solapur** for the **Selection of Professors and Teaching Staff** teaching to U. G. at Solapur University, Solapur.
- vi) Worked as subject **Expert** in Mechanical Group in 3rd **National Level Technical Symposium KSHITIJ-2006** at COE, Pandharpur
- vii) Worked as **Expert** on the **Selection Committee** appointed by **Shivaji University, Kolhapur** for the **Selection of Professors and Teaching Staff teaching** to P. G. at R.I.T., Sakharale.
- viii) Worked as session chairman for Design group on National Level Conference on Innovation in Mechanical Engineering Organized by Department of Mechanical Engineering, J.T. Mahajan College of Engineering, Faizpur, March 2007.
- ix) Worked as subject expert in the National Technical Symposium “Aavishkar” 2K7 at C.O.E., Pandharpur, March 2007.
- x) Worked as subject expert on the selection committee appointed by Solapur University, Solapur selection for the post of Principal.
- xi) Worked as subject expert on the selection committee appointed by North Maharashtra University, Jalgaon selection for the post of Professor at COET, Bambhori.

p) Visiting Professor

- i) Worked as **visiting professor** for guiding ME Mechanical (Design Engg.) students at RIT, Sakharale
- ii) Worked as **visiting professor** for teaching ME Mechanical (Design Engg.) Students at Pravara Rural Engg. College, Loni.

Worked as visiting professor for teaching & guiding Final Year Mechanical Students at SSGBCOET, Bhusawal.

q) B.O.S. Member

- i) Worked as member on the B.O.S in Automobile Engineering at Shivaji University, Kolhapur from 2005-2010.
- ii) Worked as a R.R. Committee member in Mechanical Engineering at Solapur University, Solapur.2005-2010.
- iii) Worked as a B.O.S .member of Mechanical, Production & Automobile Engineering at NMU, Jalgaon
- iv) Worked as member on the B.O.S in Automobile Engineering at Shivaji University, Kolhapur .
- v) Nominated as a B.O.S. Member of Printing Technology Board of Savitribai Phule, Pune University for five Years effective from March 2019
- vi) Nominated as Chairman of Board of Governor of College of Engineering, North Maharashtra Knowledge City, Jalgaon
- vii) Nominated as Member of Advisory Board of College of Engineering, North Maharashtra Knowledge City, Jalgaon

r) Organizes Seminars / Conferences

- i) 1st National Technical Symposium (KHITIZ-2004) on 3rd and 4th Oct, 2004 at COE,Pandharpur
- ii) 2nd National Technical Symposium (KHITIZ-2005) on 8th and 9th Oct,2005 at
- iii) 1st National Conference on “Recent Developments in Mechanical Engineering (YANTRA-2005) on 23rd and 24th Dec,2005 at COE, Pandharpur
- iv) 3rd National Technical Symposium (KHITIZ-2006) on 23rd and 24th September 2006 at C.O. E., Pandharpur.
- v) AICTE/ISTE Approved S.T.T.P on “Methods of Vibration Control” from 18th Dec. To 22nd Dec. 2006 at C.O. E., Pandharpur
- vi) 2nd National Conference on “Recent Developments in Mechanical Engineering (YANTRA-2007) on 23rd and 24th Dec,2007 at COE, Pandharpur.

ADMINISTRATIVE EXPERIENCE

- Working as a **Principal** at “ Government Polytechnic, Purnea Bihar
 - Worked as a **Principal** at “Sant Gajanan Maharaj College of Engineering Mahagaon, Gadhinglaj-Kolhapur”.
 - Worked as a Principal, J.T.Mahajan College of Engg., Faizpur
 - Worked on the post of **Principal**, SVERI’s College of Engineering, Pandharpur, Maharashtra.

- Worked on the post of **Principal**, S.S.J. College of Engineering, Jalgaon, Maharashtra.
- Worked as **Head of the Department**, Mechanical and Production Engineering Department, SVERI's College of Engineering, Pandharpur
- Worked as **Chief Rector**, Boys and Girls Hostel, SVERI's College of Engineering, Pandharpur.
- Worked as F. E. **admission co-ordinator** for academic year 2003-04, 2004-05, 2006-07 at SVERI's College of Engg., Pandharpur
- Worked as Chairman of a **Standing Committee** at COE, Pandharpur
- Worked as a Chairman of Equipment/Purchase committee at COE, Pandharpur.
- Worked as a Chairman for L.I.C. Committee appointed by Solapur University, Solapur, July 2008.
- Worked as Member Secretary of G.B. at C.O.E., Pandharpur
- Worked as Member Secretary of G.B. at J.T.M.C.O.E., Faizpur
- Working as Member Secretary of G. B. at SGMCOE, Mahagon.

8. NUMBER OF PUBLICATIONS: ONE HUNDRED TWENTYFIVE (ANNEXURE – I)

9. MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES (LIST) WITH

ABBREVIATION:

Life Member of:

- | | |
|--|------------|
| a) Indian Society for Technical Education | : LMISTE. |
| b) Indian Society for Training and Development | : LMISTD. |
| c) Indian Society for Rock Mechanics and Tunnelling Technology | : LMISRMTT |
| d) International Institute of Acoustics and Vibration | : MIIAV |
| e) Institute of Tribology, India | : LMITI |
| f) Society of Automotive Engineers, India | : MSAEI |

10) Participation In Extra Curricular Activity

- a) Worked as a president of sports activity of Jalgaon District under North Maharashtra University, Jalgaon .
- b) Arranging Blood Donation Camp in the college premises frequently

11) Honors and Awards

- a) Got “Research excellence award” on International conference organized by Jyoti Vidyapeeth Women’s University, Jaipur from 12 to 14 february 2019
(Received by Representative Authorized by me)

12) WORKSHOPS / SUMMER SCHOOL / WINTER SCHOOL ATTENDED

(ANNEXURE-II)

NUMBER OF BOOKS , JOURNALS, MONOGRAM PUBLISHED (ANNEXURE-III)

ANNEXURE – I

LIST OF PUBLICATIONS

A) JOURNALS PUBLICATION

- 1) **“Analysis of cryogenic treatment for machining performance of HSS M2 type tool”**
PI Patil, B Kumar, MM Patil, P Karole AIP Conference Proceedings 2018 (1), 020010 ,
Published By American Institute of Physics (Scopus Impact Factor 0.28),2018.
- 2) **“Predicting Minimized Setting Time Corresponding Piezo Localization Displacement and Velocity ”** Science Direct ELSEVIER Journal PROCEEDINGS 4(2017) 8469-8477,
IF-3.667, Scopus, 2017.
- 3) **“Employing Artificial Bee Colony In Mathematical Modelling Designing For Predicting Settling Time ”** Science Direct ELSEVIER Journal PROCEEDINGS 4(2017) 7554-7561,IF-3.667, Scopus, 2017.
- 4) **“Nano Composite Vibration Dampers formed by reinforce visco elastic materials”**
International Journal of Science, Engineering and Technology VolumeVI, Special Issue I,
Impact factor 6.209, January 2017.
- 5) **“Comprehensive review on performance, combustion and emission characteristics of C.I Engine fuelled with producer gas in dual fuel mode ”** International Journal of Engineering and management research Volume VII, Issue I, Impact factor 3.96.
February 2017.
- 6) **“A review on quality strategy used in batch manufacturing industry to improve productivity ”** an International Journal of innovative Research in science and Engineering VOLUME III, Issue II, Impact factor 2.03. February 2017
- 7) **“Optimization of manufacturing express by improving process capability index in conventional boring process ”** International Journal of Engineering Education and Technology VolumeV, Issue I, Impact factor 4.249, January 2017.
- 8) **“Natural rubber based hybrid nano composite vibration danper”** international journal of advanced research (IJAR) ISSN No. 2320 5407, pp 1314-1323, Jun 2017.
- 9) **“Synthesis ,Characterization and mechanical properties of alumina – zirconia nano composite particles”** Journal of mechanical and civil engineering (IOSR-JMCE) e-

ISSN: 2278-1684,p-ISSN:2320-344x, volume 14, issue-3 ver.7 pp 40-46,IF-3.781,
Scopus, (May-Jun 2017).

- 10) **“Displacement Control of Photostrictive Actuators for Vibration Control with the Aid of Fuzzy Logic Control along with PSO Algorithm”** PD Darade, B Kumar, S Bhopale - Materials Today: Proceedings, 4(2) 3642-3651, 2017
- 11) **“STUDY OF FAULT DIAGNOSIS ON INNER SURFACE OF OUTER RACE OF ROLLER BEARING USING ACOUSTIC EMISSION”** Avinash V. Patil¹, Dr. Bimlesh Kumar² International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 p-ISSN: 2395-0072 Volume: 04 Issue: 06 |pp 3013-3017, Impact Factor value: 5.181 , June -2017
- 12) **“A review on process capability indices used for prediction of process control and quality to increase rate of productivity”** an International Journal of emerging technology and advanced engineering volumeVI, Issue II, November 2016.
- 13) **“Experimental and theoretical approach generalized empirical data based model of noise in ceiling fan”** International of Acoustics and vibration volume 21 no 2 pp 192-198 IF-0.34, Scopus, 2016.
- 14) **“Fabrication and Response Analysis of Magneto-Rheological Elastomer under Different Loading”** BB Waghode, B Kumar, 2016.
- 15) **“An extensive review on use of acoustic emission technique for continuous monitoring”** AV Patil, B Kumar, R B Barjibhe. International Journal of Engineering and technology 3, pp 2395-56, 2016.
- 16) **“Optimization Based on evolutionary algorithm in vibration control process a review “** an International Journal of scientific innovation volume II, Issue 9, September 2015 pp.5760,2015.
- 17) **“Cylindrical Vessel Limit Load Estimation for Oblique Nozzle by using Ansys as Analysis Tool”** , Journal of Information , Knowledge and Research in Mechanical Engineering, Volume III, Issue 1, pp. 598 – 602, 2015.
- 18) **“Vibration control of cantilever beam using SMA springs in series”** RB Barjibhe, B Kumar Int. Res. J. Eng. Technol 2 (3), 1790-1793, 2015.
- 19) **“An Approach to Finite Element Analysis of Boiler Tube-Sheet”** RD Patil, DB Kumar AJER e-ISSN, 2320-0847, 2015.

- 20) **“Comparative Dynamic Mechanical Analysis study of Rubber and magneto rheological elastomer ”** International Journal of Applied Engineering Research (IJAER) RIP Publication ISSN 0973-4562, volume-10, number 71 pp 531-534, H Index-13, IF-0.14,(scopus) 2015.
- 21) **“Numerical and Experimental study of shape memory alloy actuated D.V.A for vibration control of cantilever beam”** International journal of mechanical engg. And technology (IJMET) volume-6 Issue-6, pp 60-67,ISSN-0976-6340, Print, ISSN-0976-6359 (ONLINE),IF-7.35377, Scopus , Jun 2015.
- 22) **“Experimental Analysis of Pressure Vessel”** International Journal of Engineering Research and Technology (IJERT), Volume III, Issue 9, pp. 952 – 958, September 2014.
- 23) **“Pressure Vessel Limit Load Estimation by FEM and Experimental Method”**, International Journal of Innovation Research in Advanced Engineering (IJIRAE), Volume 1,Impct factor 3.916, Issue 9, pp. 109 – 114, October 2014.
- 24) **“Modal analysis of nanoparticles Reinforced natural rubber”** Journal of Mechanical and Civil engg. (IOSR-JMCE) e-ISSN: 2278-1684p-ISSN 2320-334x, volume-11, Issue-3, ver-4, pp 45-52,IF-3.781, May-Jun 2014
- 25) **“Active Vibration Analysis of Piezo – laminated Cantilever Beam”** International Journal of Scientific and Engineering Research, Volume 5, Issue 12, pp. 624 – 628, Impact Factor 3.2. ISSN 2229-5518, December 2014.
- 26) **“Vibration Analysis of Cracked Beam for Various Depth by using Spectra – Plus Software “**, International Journal of Research in Mechanical Engineering, Volume 2, Issue 6, pp. 21 – 27, ISSN Online 23475188, Print 2347 –8772. I.F 4.69, November - December 2014.
- 27) **“Vibration Analysis for Damaged Detection in Composite Plate by Using Piezoelectric Sensors”** International Journal of Mechanical Engineering and Technology, Volume 5, Issue 12, pp. 27 – 35, Journal Impact Factor (2014) 7.5377 (calculated by GISI.) Scopus, December 2014.
- 28) **“Finite Element and Experimental Investigation and Control of Vibration of Piezoelectric Smart Beam”** International Journal of Innovative Research in Science, Engineering and Technology, Volume 3, Issue 12, December 2014, pp. 17882 – 17889. , Impact Factor 1.682, December 2014.

- 29) **“Experimental Method to Analysed limit load in pressure vessel”** International Journal of Modern Engineering Research, Vol. 4 Issue 10, pp. 1 - 8, October 2014.
- 30) **“Experimental Analysis of Vibrations in Ceiling Fan”**, International Journal of Emerging Trends in Engineering and Development (IJETED) , , pp. 326-335 July-August 2014
- 31) **“Experimental Analysis of Power Consumption in Ceiling Fan”**, International Journal of Research in Mechanical Engineering and Technology (IJRMET), pp.43-46, October 2014.
- 32) **“Experimental Analysis of Air Delivery in Ceiling Fan”**, International Journal of Emerging Technology and Advanced Engineering (IJETAE), pp. 247-251, June 2014.
- 33) **“Ceiling Fan Vibration Analysis Response Surface Method”**, International Journal of Research in Engineering and Advanced Technology (IJREAT), pp. 1-10, June-July 2014.
- 34) **“Automotive vibration and noise control using smart materials: a state of art and challenges”** S Kumbhar, S Maji, B Kumar World Journal of Engineering 11 (4), 413-420, 2014
- 35) **“Vibration analysis of cracked cantilever beam with suitable boundary conditions** KB Waghulde, B Kumar International Journal of Innovative Science, Engineering and Technology 1 , 2014
- 36) **“Research on a Smart Material for Automotive Applications”**, Journal of Automobile Engineering and Applications (JOAEA), STM Journals, Vol. 1, Issue 1, pp.6-14,2014.
- 37) **“Limit Load Estimation of Cylindrical Vessel with Olique Nozzle”**, International Journal of Engineering Research and Technology (IJERT) , Volume 2, Issue 1, pp. 2385–2391, November 2013.
- 38) **“Effects of Particle Size and Packing ratio of PID on Vibration Amplitude of Beam”**, Journal of Mechanical Engineering and Sciences (JMES) , ISSN(Print): 2289- 4659, e-ISSN: 2231-8380, Volume 4, pp. 504-517 , Universal Malaysia Pahang, Pekan, Pahang, Malaysia, Scopus June 2013.
- 39) **“An Extensive Review of Momentous Researches on Acoustic Emission and Vibration”**, An International Journal of Modern Engineering Research(IJMER), Volume 3, Issue 6, ISSN: 2249-6645, pp. 3564-3567, Nov.-Dec. 2013.

- 40) **“An Approach to Finite Element Analysis of Boiler Tube Sheet”**, American Journal of Engineering Research (AJER), e-ISSN: 2320-0847 p-ISSN: 2320-0936 Volume 2, Issue-08, pp. 08-11. 2013
- 41) **“Automotive Vibration and Noise Control using Smart Materials: A State of Art and Challenges”**, World Journal of Engineering (WJE) China, Multi Science Publishing, ISSN 1708-5284, Vol. 10, No. 6, DOI: 10:1260/1708-5284.10.6.535, pp. 535-542, H-Index:3,IF-0.11, Scopus, December 2013.
- 42) **“Development and Testing of MRE Bushing for Road Vehicle Suspension System”** International Journal of Recent Advances in Mechanical Engineering (IJMECH), ISSN2200-5854, Wireilla Scientific Publication, New South Wales, Australia, Vol. 2, No. 3, pp.37-44, August 2013.
- 43) **“Development & Characterization of Isotropic of Magnetorheological Elastomers”** Universal Journal of Mechanical Engineering (UJME), Horizon Research Publishing, USA (HRPUB), DOI;10.13189/ujme.2013.010103, Vol. 1, No. 1, pp.18-21, June 2013.
- 44) **“Approximate analytical method for damage detection in free-free beam by measurement of axial vibrations”** FB Sayyad, B Kumar, SA Khan International Journal of Damage Mechanics 22 (1), 133-142, 2013.
- 45) **“Critical review on shape memory alloy”** J Chopade, R Barjibhe, B Kumar International Journal of Engineering 2 (2), 1-6, 2013.
- 46) **“Characteristics of biogas operated automotive SI engine to reduce exhaust emission for green development”** SD Yadav, B Kumar, SS Thipse SAE Technical Paper No. 2013-26-0012,T.R.IF-0.61,scopus 2013.
- 47) **“Effects of Bio-Gas Fuel Composition on Engine Performance”** SD Yadav, B Kumar, SS Thipse SAE Technical Paper,(paper No.2013-26-0011) ,T.R.IF-0.61, scopus 2013.
- 48) **“Effective Location and Packing Ratio of a Particle Impact Damper for a Mild Steel Cantilever Beam Under Transient and Forced Vibration”** BK P.S. Kachare, Dr Journal of Mechanical Engineering and Sciences (JMES) 4, 504-517, 2013.
- 49) **“Biogas purification: Producing natural gas quality fuel from biomass for automotive applications”** SD Yadav, B Kumar, SS Thipse Energy Efficient Technologies for Sustainability (ICEETS), 2013.

- 50) **“Dynamic mechanical analysis of Magnetorheological Elastomer”** SR Kumbhar, S Maji, B Kumar Energy Efficient Technologies for Sustainability (ICEETS), 2013.
- 51) **“Active Vibration Control of a Cantilevered Smart Structure by using Spatial H_{∞} Controlled Technique”**, Journal of Electronics and Electrical Engineering, ISSN: 0976-8106(Print), e-ISSN: 0976-8114 , Volume 3, Issue 1, 2012, pp. 64-69. (Impact factor value: ICV(2010) : 4.56) , 2012.
- 52) **“Development of Advanced Intake System for Optimum Biogas-Fuelled SI engine performances”**, International Journal of Mechanical Engineering and Technology (IJMET), ISSN: 0976-6340 (Print) , ISSN: 0976-6359 (Online), Vol. 3, Issue 1, pp. 64-76, IF-0.735377, Scopus, April 2012.
- 53) **“Dynamic Characterization of Magnetorheological Elastomers under Compressive Loading”**, International Journal of Mechanical Engineering (IJME) , ISSN (Print) 2319-2240; ISSN (Online) 2319-2259; International Academy of Science, Engineering and Technology (IASET), Vol. 1, Issue 2, pp.37-40 (Impact Factor – JCC; 0.7293) , Nov. 2012.
- 54) **“Fabrication and Reponse Analysis of Magnetorheological Elastomer”**, Material Science Research India (MSRI), An International Peer Reviewed Research Journal, Vol. 9 No. 1. Pp. 111-116, June 2012.
- 55) **“Identification of crack location and crack size in a simply supported beam by measurement of natural frequencies”** FB Sayyad, B Kumar Journal of Vibration and Control 18 (2), 183-190, 2012
- 56) **“Approximate analytical method for damage detection in beam”** FB Sayyad, B Kumar International Journal of Damage Mechanics 21 (7), 1064-1075 2012.
- 57) **“Vibration Analysis and Control of Piezoelectric Smart Structures by Feedback Controller Along-with Spectra Plus Software”** KB Waghulde, DB Kumar International Journal of Mechanical Engineering & Technology (IJMET) 3 2012.
- 58) **“Eletrorehological fluid Damper for Road Vehicel Suspension System”** SSG Dr. Bimlesh Kumar, S.R. Kumbhar Lambert Academic Publshing, USA 2012.
- 59) **“Effective Location and Packing ratio of a Particle Impact Damper for a Mild Steel Cantilever Beam under Transient and Forced Vibration”**, International Review of

Mechanical Engineering (IREME) UK, Volume 5, No. 7, pp. 1226-1234,IF-3.5, Nov. 2011.

- 60) **“Modification and Tuning of four stroke S.I. Engine of Motorcycle by using Biogas as renewable fuel”**, International Journal of Innovation in Mechanical and Automobile Engineering(IJIMAE), ISSN: 2449-2968 (Print), Issue 1, Volume 1, pp. 1-5, September 2011.
- 61) **“Review of Noise Reduction and Vibration Reduction Methods for Fans”** International Journal of Innovations in Mechanical and Automobile Engineering, pp. 40-48, September 2011.
- 62) **“Photoelastic Stress Analysis by Innovative Polariscopes”**, International Journal of Mechanical and Automobile Engineering, ISSN: 0974-231X, IJMAE, Volume 12, Issue 1, pp. 1-6, 2011.
- 63) **“Vibration Damping of Nano particle Reinforced Rubber”**, International Journal of Innovations in Mechanical and Automobile Engineering pp 53-55, Sept 2011.
- 64) **“Vibration Damping of Cables by using Super Elastic shape memory alloys”** International Journal of Innovations in Mechanical and Automobile Engineering pp 49-52, Sept 2011.
- 65) **“Interaction Role of vehicles (motor cycle) and road environment for safety : An Ergonomics Approach”** International Journal of Innovations in Mechanical and Automobile Engineering pp 40-48, Sept 2011.
- 66) **“MRE Bushing –Revolutionary Advances in Design of Vehicles ”** International Journal of Innovations in Mechanical and Automobile Engineering pp 23-26, Sept 2011.
- 67) **“Experimental Analysis of Two Degree of freedom Semi active Suspension Quarter Car Model”** International Journal of Innovations in Mechanical and Automobile Engineering pp 19-22, Sept 2011.
- 68) **“Particle Impact Damping – A review”** International Journal of Innovations in Mechanical and Automobile Engineering pp 6-14, Sept 2011.
- 69) **“Experimental Model Analysis for Identification of crack in Cantilever Beam”** International Journal of Innovations in Mechanical and Automobile Engineering pp 15-18, Sept 2011.

- 70) **“Vibration Analysis and Control of Cantilever plate by using Finite Element Analysis”** Journal of Engineering Research And Studies July-2011
- 71) **“Failure Modes of Perforated Material under Finite Deformation for Pressure Vessel”** An International Journal of Advanced Engineering & Application (IJAEA) PP-55-59, Jan-2011.
- 72) **“Vibration Analysis of Cantilever Smart Structure by using Piezoelectric Smart Material”** KB Waghulde, B Kumar International Journal on Smart Sensing & Intelligent Systems 4 (3) 2011.
- 73) **“Theoretical and experimental study for identification of crack in cantilever beam by measurement of natural frequencies”** FB Sayyad, B Kumar Journal of Vibration and Control 17 (8), 1235-1240 2011.
- 74) **“Effective Location and Packing Ratio of a Particle Impact Damper for a Mild Steel Cantilever Beam Under Transient and Forced Vibration”** BK P.S. Kachare, Dr Journal of Mechanical Engineering and Sciences (JMES) 4, 504-517 2011.
- 75) **“Effective Mass Ratio And Enclosure Size of Particle Impact Damper for a Mild Steel Cantilever Beam under Transient and Forced Vibration”** An International Journal on Mechanical & Automobile Engineering PP 50-59, Sept-2010.
- 76) **“Effect of Thickness during Analysis of Piezoelectronic Smart Structure”** An International Journal of Emerging Technologies and Applications in Engineering, technology And Sciences (IJ-ETA-ETS) PP 1-3, April -2010.
- 77) **“Smart Materials used as actuators & Sensors for vibration Analysis of smart Structures”** International Journal on Mechanical & Automobile Engineering, Vol-9, PP-7-13, May 2010.
- 78) **“Electrical Characteristics of Piezoelectric Actuators for Active Noise control”** International Journal of Advanced Engineering and Application (IJAEA), Vol -3 PP 262-264, June 2010.
- 79) **“Structure –Borne Noise and Vibrations in Automobiles : An Overview”** International Journal of Engineering research & Industrial Application (IJERIA) ISSN0974-1518, Vol -3, No. II, PP 431-443, GIF-0.5045, May2010.

- 80) **“Interaction Effect of circular holes in the square pitch pattern for circular tube sheet”** International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ – ETA – ETS) Volume –3 issue 1 PP 533 to 536, Jan-2010.
- 81) **“Formulation of the equation of a laminar piezo electric actuator and sensor for actuation and sensing”** International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ – ETA – ETS) Volume –3 issue 1 PP 334 to 337, Jan-2010.
- 82) **“H₂S scrubbing technologies to Bio –gas Enrichment for vehicular Engine use.”** International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ – ETA – ETS) Volume – 3 issue 1 PP 09 to 12, Jan-2010.
- 83) **“Car Drivers performance analysis by adjusting seat parameters–A case study”** International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ – ETA – ETS) Volume – 3, issue 1 PP 04to 08, Jan-2010.
- 84) **“Magnetorheological Elastomers–properties performance, and application Developments SSSANDBK”** S. R. KUMBHAR international conference on advances in mechanical Engg., 598-602,2010.
- 85) **“Theoretical and Experimental evaluation of damping characteristics of E.R. fluid damper”** International Journal of mechanical and automobile Engg. Vol-4 No. 5 P.P. 17-21, June 09-Aug 2009.
- 86) **“Optimal Design of Magneto Rheological Fluid Damper using Genetic Algorithm”** – International Journal on Mechanical and Automobile Engineering Vol. 2, No. 2, , pp.74-86, November 2008 – January 2009.
- 87) **“Theoretical and experimental Analysis of a quarter car model using E.R. Fluid Damper”** – International Journal of Emerging Technologies and Applications in Engineering, Technology and Science (IJ – ETA – ETS) Volume – 2, pp.38-42, July 09 – December 2009.
- 88) **“Theoretical and Experimental evaluation of damping characteristics of ElectroRheological fluid damper”** DBK S.R. Kumbhar International Journal of mechanical and automobile Engineering 4, 17-21 2009.

- 89) “Optimal Design of Magnetorheological fluid damper used in Genetic Algorithm”**
BK Ronge, Dr Ronge International Journal of Mechanical Engineering & Automobile Engineering 2,2009.
- 90) “A case study to purify biogas using simple water scrubbing method as source of energy for rural development in India”** an International journal on Nature Environment and pollution technology by Techno science publications volume 7 No.1 PP 163 to 166,ISSN- 2395-2454 (online),0972-6268 print, Approved by UGC India, March 2008.
- 91) “Vibration Analysis of Horizontal Pump Shaft Supported on Two Bearings”,**
Journal of International Sound and Vibration Digest, Vol. 8, No. 1, May 2002.

B) PUBLICATIONS IN SEMINARS, CONFERENCES, SYMPOSIUMS AT NATIONAL / INTERNATIONAL LEVEL:

1. **“Advanced Tribological Materials and Its Coatings for Wear Protection”** (1998), Proceedings of 2 Days National Workshop on Industrial Tribology, V.P. Dr. P. G. H College of Engg. and Technology, Bijapur, 28-33.
2. **“Vibration Control by Using Active Control in Two Wheeled Vehicles Suspension System”** (1999), Proceedings of Three Days National Seminar on Two Wheelers of Tomorrow, B. N. College Of Engg., Pusad, 33-40.
3. **“Some Experimental Investigation of Impact Dampers Using Fluids as Damping Media”**, Proceeding of National Conference On Hydraulics (HYDRO 1999), Y. C. College Of Engg., Nagpur, 162-166.
4. **“Various Environmental Aspects and Its Effects on Engg Equipments”** (1999), Proceedings of National Conference on Towards Excellence in Technical Education in 21st Century, B. N. College Of Engg., Pusad 278-281.
5. **“Precision in Machine and Machine Tool Structure Using Impact Dampers”**, Proceedings of 1st National Conference on Precision Engg (COPEN 200), I. I. T., Chennai, 441-452.
6. **“Impact Damper to Maintain Vibration Standards in Electromechanical Equipments Development”**, Proceedings of All India Seminar on Mini and Micro Hydel Power Development (MINI HYDEL 2000), The Institutions Of Engineers (India), Nagpur Local Center 40-46.
7. **“Some Experimental Investigation for Pollution Control in Automotive CI Engine”**, Proceedings of National Seminar On Industrial Pollution Control, (IPC 2000), BHU, Varanasi, 35-44.
8. **“Pollutions due to Auto Exhaust and Its Control for Environmental Betterment”**, Proceedings of National Seminar on Industrial Pollution Control, (IPC 2000), BHU, Varanasi, 29-34.
9. **“New Technology to Improve Teaching Learning Process”**, Proceeding of National Conference on Technical Education in New Millennium Management and Challenge (TECHMANCH 2000), University College of Engineering, Osmania University, Hyderabad, 86-89

10. **“Some Experimental Studies of Vibration of Cantilever Type Main System to which Impact Absorbers are Attached”** (2000), Proceedings of 13th National Convention of Aerospace Division on Recent Advances in Experimental Mechanics, IIT Kanpur, 270-281.
11. **“Experimental Studies of Vibration of Simply Supported Beams to which Impact Dampers are attached”**, Proceedings of 16th National Convention of Mechanical Engineers, University of Roorkee, 246-251.
12. **“Theoretical and Experimental Analysis Cantilever Type Main System to which Multimass (Two Masses) DVA are Attached”** (2000), Proceedings of 16th National Convention of Mechanical Engineers, University of Roorkee, 193-199.
13. **“Analysis of Multimass Dynamic Vibration Absorber which Attached to Cantilever Type Main System”**, 8th International Congress on Sound and Vibration (ICSV8) HONGKONG (2000), Paper No. 794.
14. **“Dynamic Analysis of Pipe Conveyed Flowing Fluid”**, 9th International Congress on Sound and Vibration Orlando, Florida, USA, Paper No. ID 146.
15. **“Prediction of Gear Tooth Breakage Using Acoustic Emission Technique”**, 9th International Congress on Sound and Vibration Orlando, Florida, USA, Paper No. ID 325.
16. **“Vibration Analysis- A Case Study”**, 9th International Congress on Sound and Vibration Orlando, Florida, USA, Paper No. ID 265.
17. **“Advanced Technology in Electrical Vehicles”**, Proceedings of the National Seminar on Modern Trends in Automobiles (NSMTA 2002), R. I. T. Sakharale, 109-114.
18. **“Acoustical Considerations and Noise Control Techniques in Automobile”**, Proceedings of the National Seminar on Modern Trends in Automobiles (NSMTA 2002), R. I. T. Sakharale, 236-241.
19. **“Aesthetic and Ergonomic Consideration in Modern Automotive Vehicle”**, Proceedings of the National Seminar on Modern Trends in Automobiles (NSMTA 2002), R. I. T. Sakharale, 284-290.
20. **“Modern Regenerative Breaking System”**, Proceedings of the National Seminar on Modern Trends in Automobiles (NSMTA 2002), R. I. T. Sakharale, 302-304.

21. **“Stress Analysis of a Helical Coil Automobile Spring Using Strain Gauges”**, Proceedings of the National Seminar on Modern Trends in Automobiles (NSMTA 2002), R. I. T. Sakharale, 323-327.
22. **“Identification of Crack in Simply Supported Beam Using Measurement of Natural Frequency”**, Proceedings of a National Seminar on Recent Advances in Mechanical Engineering (RAME 2004), K. K. Wagh College of Engg., Nasik, MD 49-54.
23. **“Impact Dampers to Control Modes of Vibration in Machine and Machine Tool Structures”**, proceedings of the National Conference on Advances in Engg. Design (AED), Bannari Amman Institute of Technology, Erode, Tamilnadu, April 2005, 744-749.
24. **“Some Theoretical and Practical Studies on Electro hydraulic Active Suspension System”**, twelfth international congress on sound and vibration, Lisbon Portugal, July 2005, paper No. 273.
25. **“Some Theoretical and Experimental Studies of E.R. Fluid for Various Engg. Applications”** in International Conference Advances in Materials Product Design and Manufacturing System (ICMPM2005) at B.I.T. sathyamangalam, Tamilnadu Dec.2005
26. **“Identification Of Crack In Cantilever Beam Using Measurement Of Natural” Frequencies proceedings** of the 1st National Conference on Recent Development in Mechanical Engineering (Yantra 2005) on 23rd to 24 Dec. 2005 pp 79-82.
27. **“Application of Electro Rheological Fluid in Vibration Control”** of the 1st National Conference on Recent Development in Mechanical Engineering (Yantra 2005) on 23rd to 24 Dec. 2005 pp 95-98.
28. **“Enhancing Productivity of Grinding By Using Latest Technology”** in International conference of Global Manufacturing and Innovation at Coimbatore Institute of Technology, Coimbatore-14 Jointly with University of Massachusetts-Dartmouth, USA from 27th July to 29th July 2006 pp140.
29. **“Design Development and Control of Magneto-Rheological Fluid Dampers”** an international Conference on Advances in Machine Design and industry Automation organized by Dept. of Mechanical Engg. Gov. College of Engg. Pune from 10th Jan. to 12th Jan 2007.

30. **“Dynamic Response Analysis of Orifice type electro Rheological Fluid Dampers”**
an international Conference on Advances in Machine Design and industry Automation organized by Dept. of Mechanical Engg. Gov. College of Engg. Pune from 10th Jan. to 12th Jan 2007.
31. **“The Research of M.R. Fluid Damper”** a National Conference on Innovations in Mechanical Engineering organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 29th to 30th March 2007 P.P. 1 – 6.
32. **“E.R. Fluids – Review of Properties, Performance and Application Developments”**
a National Conference on Innovations in Mechanical Engineering organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 29th to 30th March 2007 P.P. 117-122.
33. **“Review of Different E.R. Fluids Performance and Application Developments”** a National Conference on Innovations in Mechanical Engineering organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 29th to 30th March 2007 P.P. 123-127.
34. **“M.R. Fluid - Review of Properties, Performance and Application Developments”**
a National Conference on Innovations in Mechanical Engineering organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 29th to 30th March 2007 P.P. 155-156.
35. **“Upgraded Bio-Gas as vehicular fuel”** a National Conference on Innovations in Mechanical Engineering organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 29th to 30th March 2007 P.P. 157-159.
36. **“A Comparative Study Of Electro rheological Dampers”** of the 2nd National Conference on Recent Development in Mechanical Engineering (Yantra 2007) on 23rd to 24 Dec. 2007 P.P. 1-6.
37. **“Finite Element Analysis: An Approach To Tube-Sheet”** of the 2nd National Conference on Recent Development in Mechanical Engineering (Yantra 2007) on 23rd to 24 Dec. 2007 P.P. 75-79.
38. **“Biogas Technology As An Alternate Source Of Energy As Vehicular Fuel-A State Of Art Review”** of the 2nd National Conference on Recent Development in Mechanical Engineering (Yantra 2007) on 23rd to 24 Dec. 2007 P.P. 204-209.

39. **“Digital control system for gaseous fuel operated engines”** 2nd National Conference on advances in energy conversion technologies (AECT2008) April 18th & 19th 2008. Organized by Department of Electric and Electronics Engineering, Manipal Institute of Technology, Manipal University, and Page no. 50 - 54.
40. **“Effectiveness of particle impact damper over other passive methods”** a National Conference on Innovations in Mechanical Engineering(IME10) organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 28th to 29th Jan 2010 P.P. 86-92.
41. **“E.R. and M.R. technologies – revolutional advances in smart materials”** a National Conference on Innovations in Mechanical Engineering(IME10) organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 28th to 29th Jan 2010 P.P. 113-115.
42. **“Optimum Design of composite drive shaft”** a National Conference on Innovations in Mechanical Engineering(IME10) organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 28th to 29th Jan 2010 P.P. 123-126.
43. **“Zirconia toughened nano composite vibration dampers”** a National Conference on Innovations in Mechanical Engineering(IME10) organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 28th to 29th Jan 2010 P.P. 196-200.
44. **“Bio- gas Fuel – A key technology for environmentally friendly transports”** a National Conference on Innovations in Mechanical Engineering(IME10) organized by Dept. of Mechanical Engg., J.T. Mahajan College of Engineering, Faizpur, Jalgaon from 28th to 29th Jan 2010 P.P. 286-288.
45. **“Magnetorheological Elastomers–properties performance, and application Developments”** in the 3rd international conference on advances in mechanical Engg. organized by S.V. National institute of technology, Surat Gujarat from 4-6 Jan 2010 P.P. 598-602.
46. **“Design of Perforated Plates used for Pressure Vessels”** in the International Conference on Science, Engineering & Spirituality organized by S.E.S. COE, Navalnagar from 1st & 2nd April 2010.

47. **“Effect of Thickness During Analysis of Piezoelectric”** in the International Conference on Science , Engineering & Spirituality organized by S.E.S. COE, Navalnagar from 1st & 2nd April 2010.
48. **“Design & Development of Gas carburetor for operation of Motorcycle S.I. Engine by using Up-graded Bio–gas fuel”** in the international conference on advances in mechanical Engg. Organized by Department of Mechanical Engineering S.V. National Institute of Technology Surat. Aug2009 PP-352-356.
49. **“Some Studies on Alumina–Zirconia Nano Composite obtained by Sol-gel synthesis”** Organized by SSVPS COE & Polytechnic , Dhule Jan 13-15.
50. **“Application of Piezoelectric Materials on repair of delaminated structure ”** Organized by SSVPS COE & Polytechnic , Dhule Jan 13-15.
51. **Producing Natural gas Quality Fuel from Biomass for Automotive Application”** 2013 IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS 2013) 10.1109/ ICEETS.2013.6533425, [978-1-4673-6150-7/13/\\$31.00@2013](https://doi.org/10.1109/ICEETS.2013.6533425) IEEE, pp 450-452.
52. **“Research towards Bio-gas as Clean Renewable Source of Energy Usages in Automotive Engines”** International conference on Advances in Mechanical Engineering, S.V. National Institute of Technology, Surat- 395007, Gujarat, India, December 15-17, 2008.
53. **“Comparison of Engine Performance by using Diesel and Bio-gas Plus Diesel Blend”** International conference on Bio-fuel Vision 2015, Organised by Engineering College, Bikaner-334004 (Rajasthan), October 13-15, 2006.
54. **“Solution to Inplane Loading Problems of Boiler Tube Sheet by Finite Element Method”** paper ID 737 in the 3rd International Conference on Recent in Trends in Engineering and Technology (ICRTET 2014), on 28-30 March 2013 by Late Sau. Kantiabai Bhavarlalji Jain COE, Nemi Nagar, Chandwad, Nashik.
55. **“Dynamic Mechanical Analysis of Magnetoreheological elastomer”** IEEE international Conference on Energy Efficient Technologies for Sustainability (ICEETS2013) Sant Javihars Catholic College of Engineering, Chunkankadi, Nagrcoil, Tamilnadu, India 629003, 10-12 April 2013. IEEE Conference publications DOI;

10.119/ICEETS.2013.6533500, [978-1-4673-6150-7/13/\\$31.00@2013](https://doi.org/10.1109/ICEETS.2013.6533500) IEEE, pp 870 – 873. <http://ieeexplore.ieee.org>.

- 56. “A Magnetorheological Elastomers Preparation and dynamic Response Analysis”** proceeding of ACMFMS 2012, Mechanics of Functional Materials and structures ISBN No. 978-81-8487-248-4, editor Santosh Kapuria, S.pradyumna, Narosa publishing house, pp 236 – 239. 3rd Asian Conference on Mechanics of Functional Materials and structures, organized by Indian Institute of Technology, New Delhi, 5-8 December 2012.
- 57. “An Approach to Establish Co-relation of Dependent and independent variables of ceiling fan for the Analysis of Vibration”** proceedings of 3rd Elsevier International Conference on Recent Trends in Engineering and Technology (ICRTET 2014), Chandwad, Nashik, Elsevier 2014 pp 487-492.
- 58. “Biogas Purification: Producing Natural Gas Quality Fuel from Biomass for Automotive Applications”** 2013- IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS-2013), 10.1109/ICEETS, 2013.6533425, [978-1-4673-61507/13/\\$31.00@2013](https://doi.org/10.1109/ICEETS.2013.6533425) IEEE, PP 450-452

ANNEXURE – II

WORKSHOPS / SUMMER SCHOOL / WINTER SCHOOL ATTENDED

- 1) Two Days Workshop on Industrial Problems Machines and Mechanisms, 15-16 March 1997, W. C. E., Sangli.
- 2) One Week Program on PADS, 17-22, March, 1997, W. C. E., Sangli.
- 3) Two Weeks Summer School on Non-Conventional Energy Sources and its Applications, 12-24 May 1997, R. I. T. Jamshedpur.
- 4) Two Days Seminar on Electrical Awareness and Safety 23-24, July, 1997, R. I. T. Sakharale.
- 5) Four Weeks Winter School on Computer in Engineering, 1-30 December 1997, R. I. T., Sakharale.
- 6) Two Weeks Summer School on Finite Element Methods- Mathematics and Programming – A Structural Approach, 29 June-11 July 1998, R. I. T., Sakharale.
- 7) Two Weeks Summer School on Computer Aided Graphics and Auto LISP Programming, 28 June –10 July 1999 R. I. T. Sakharale.
- 8) Two Weeks Winter School on Preventive Maintenance of Rotating Machines by Using Vibrations and Noise Analysis, 29 November- 11 December, 1999, W. C. E., Sangli.
- 9) One-Day Workshop on Patent Awareness, 13 December 2002, Shivaji University, Kolhapur.
- 10) One-Day Workshop on Curriculum Development For B. E. Mechanical Of Revised Structure 2 November 2004, R. I. T., Sakharale.
- 11) One-day workshop on Globalisation in Technical Education – Challenges & Opportunities. Organize by Mechanical Engineering Department W.C.E. Sangli, on 8th July, 2005
- 12) Two days workshop on Reliability Engineering in Industrial Applications, Organize by Mechanical Engineering Department Government College of Engineering, Karad 22nd & 23rd August 2005.
- 13) Attended one week short term course on “Smart Actuators” during March 27th to 31st 2006 sponsored by ISTE, New Delhi at Dr. P.G. Halakatti College of Engineering and Technology, Bijapur.
- 14) Attended two days National Level Work Shop on “Vibration Control of Rotating Machines a

Diagnostic Approach” between 16th & 17th July 2007. Organize by Mechanical Engineering Department W.C.E. Sangli.

- 15) Attended one day workshop for S.E., T.E. and B.E. syllabus structure and S.E. Syllabus for Solapur University, Solapur on 2nd February 2008. at W.I.T., Solapur
- 16) Attended one Day Work shop on the discussion of part-I examinations of Academic year 2008-09 and preparation for T.E. Syllabus on 8th September 2008. at The Orchid College of Engineering and Technology, Solapur.
- 17) Attended two days NBA Orientation Work shop on 30-31 July2011 organised by association of the management of un aided engineering colleges (Maharashtra) held at PVG college of engineering and technology 44 Vidyanagari,Parvati Pune 9.
- 18) Attended One day Seminar on “Technological University of India and Higher Technical Education in Maharashtra” organised by association of the management of un aided engineering colleges (Maharashtra) held at PVG college of engineering and technology 44 Vidyanagari,Parvati Pune 9 on 6th March 2012. .
- 19) Attended Two days National Level workshop on Mechanical Vibration organised by Department of Mechanical Engineering, JTMCOE, Faizpur, February 15-16, 2012.
- 20) Attended Two Days Workshop on TEQIP II Industry Academia Collaboration in association with NPIV and CII, College of Engineering, Pune on 13-14, June 2013.
- 21) Attended Three Days Workshop on “Orientation Workshop on Outcomes Based Accreditation Process” at SVKM’s NMIMS, Mukesh Patel School of Technology Management and Engineering, Shirpur Campus, Maharashtra Organised by N.B.A., New Delhi, 15-17 March 2013.
- 22) One day workshop on National Programme on Technology Enhance Learning” (NTPEL awareness) organised by JTMCOE, Faizpur, on 23rd September 2013.
- 23) Attended Three Days Workshop on “Academy of Academic Administrators” for newly appointed Principal, 13-15 February, 2019 Organized by Shivaji University, Kohlapur

- 24) Attended one week short term course on “curriculum implementation” conducted by curriculum developed center, department of NITTTR, Chandigarh from 20-05-19 to 24-05-19

ANNEXURE – III

NUMBER OF BOOKS, JOURNALS, MONOGRAM PUBLISHED

- 1) Electrorheological Fluid Damper for Road Vehicle suspension system – Lambert Academic Publishing, - GmbH and Co. KG, USA, 2012, ISBN – 978-3-659-19950-9.
- 2) International Journal of Innovations in Mechanical and Automobile Engineering (IJIMAE) ISSN – 2249-2968 (print), Issue I , September 2011.
- 3) International Journal of Innovations in Mechanical and Automobile Engineering (IJIMAE) ISSN – 2249-2968 (print), Issue II , March 2012.
- 4) International Journal of Innovations in Mechanical and Automobile Engineering (IJIMAE) ISSN – 2249-2968 (print), Issue III , September 2012.
- 5) International Journal of Innovations in Mechanical and Automobile Engineering (IJIMAE) ISSN – 2249-2968 (print), Issue IV , March 2013.
- 6) International Journal of Innovations in Mechanical and Automobile Engineering (IJIMAE) ISSN – 2249-2968 (print), Issue V , November 2013.
- 7) International Journal of Innovations in Mechanical and Automobile Engineering (IJIMAE) ISSN – 2249-2968 (print), Issue VI , July 2014.

Date:

Place:

Signature of Candidate