i.	**Name**	Dr. Ravindra B. Ingle
ii.	**Date of Birth**	17 August 1961
iii.	**Unique id**	1-1509964363
iv.	**Education Qualifications**	Ph.D.(Mech), M. Tech(Design), B.E.(Mech)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Total = 35 Years 9 Months (Industry – 03 Years, Teaching- 32 Years, Research –11 Years inclusive)
vi.	**Area of Specialization**	Vibration and Noise, Composites and Tribology
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Dynamics of Machinery, ● Theory of Machines I & II ● Mechanical System Design ● Vibration and Acoustics ● Mechanical Vibrations ● Powertrain Design ● Vehicle Dynamics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences**	A. International Journals 24 B. National Journals: 05 C. ASME World Congress: 01 D. World Maritime Congress: 01 E. International Conferences: 13 F. National Conferences: 14
	● **Master** ● **Ph.D.**	● **Master:** 50+ Students Completed till 2020 ● **Ph.D. : 3** Students Completed till Feb 2020 in SPPU.
ix.	**Projects Carried out**	i. Total 100 + projects carried out in the area of Design Engg. at UG and PG level (Inhouse and Industry) ii. 03 at Ph.D. level in Vibration and Tribology iii. 01 R & D project, AICTE, New Delhi (Rs. 6,35000/-) [A.Y. 2002 - 05] iv. 01 BCUD project, at SSPU (Rs. 2,30000/-) [A.Y. 2013 - 15] v. 6 Projects at M Tech Level from Industry.
x.	**Patents**	**Nil**
xi.	**Technology Transfer**	**Nil**
xii.	**Research Publications**	**58 Nos** **Following are the International Journal papers of Repute,**

- *YS Munde, RB Ingle and I Siva "A comprehensive review on vibration and damping Characteristics of Vegetable Fibre Reinforced Composites"* Journal of Reinforced Plastic and Composites" SAGE Publication, 12th May 2019, (SCIE)

- *YS Munde, RB Ingle and I Siva "Effect of sisal fiber loading on mechanical, morphological and thermal properties of extruded polypropylene composites"* Materials Research Express, IOP Science, Vol06(8), 085307, pp1-16, 10th May 2019 (SCIE)

- *YS Munde, R B Ingle, I Siva "Vibration damping and acoustic characteristics of sisal fibre–reinforced polypropylene composite"* Noise & Vibration Worldwide, 50 (1), 13-21, Nov.2018 (Scopus)

- *YS Munde, R B Ingle, I Siva* "*Investigation to appraise the vibration and damping characteristics of coir fibre reinforced polypropylene composites"* Tailor and Francis- Advances in Materials and Processing Technologies, Vol 4 (4), pp 639-360, June 2018 (Scopus)

- *YS Munde, R B Ingle "Theoretical Modeling and Experimental Verification of Mechanical Properties of Natural Fiber Reinforced Thermoplastics"* Elsevier Procedia Technology, 19, 320-326, 2015 (Web of Science)
- *YS Munde, R B Ingle "Effect of Frequency and Fibre loading on Physical and Dynamic Mechanical Properties of Extruded Polypropylene Composites"* Journal of Thermoplastic Composite Materials, SAGE Publications (Under review) (SCIE)

- *MV Kulkarni, RB Ingle "Validation of set up for experimental analysis of reactive muffler for the determination of transmission loss: Part 1"* Noise & Vibration Worldwide 49 (6), 237-240, 2018

- *MV Kulkarni, R B Ingle "Attenuation analysis and acoustic pressure levels for double expansion chamber reactive muffler: Part 2"* Noise & Vibration Worldwide 49 (6), 241-245, 2018

- *MV Kulkarni, RB Ingle "Investigation on Effect of Extended Inlet and Outlet Tubes on Single Expansion Chamber muffler for Noise Reduction"* American International Journal of Research in Science, Technology, Engineering & Mathematics, USAISSN(print):2328-3491, ISSN(Online): 2328-3580 18(1), March-May,2017, Pp 10-15

- *SS Kulkarni, AK Bewoor, R B Ingle"Vibration signature analysis of distributed defects in ball bearing using wavelet decomposition technique"* Noise & Vibration World wide48 (1-2), 7-18,2017

- *SS Kulkarni, AK Bewoor R B Ingle"The theoretical modeling and experimental validation for distributed defect on inner race of ball bearing under radial load"* Noise and Vibrations Worldwide DOI:10.1177/0957456516672555 Nvw.sagepubl.com UK,47 (5-6), 67-79 pp 1-132016

- *R B Ingle, Jadhav Jyoti, Manvi Vibha, Sawant mrunal, Talekar vrushali, "Experimental investigation of a double Expansion chamber reactive muffler for stationary diesel engine"* Noise and Vibrations Worldwide (ISSN 0957-4565, DOI 10.1260/0957-4565.445.9.12), Multi-Science publ. Co. Ltd. Essex. UK, Vol. 45, No. 9, Oct. 2014

- *S. S. Pramanik, R.B. Ingle, A.A. Latey, "Comparative Study of Steering Mechanisms for Large Wheelbase Vehicles"* International Journal of Vehicle Structures & Systems Available online at www.ijvss.maftree.org, doi: 10.4273/ijvss.4.2.05, Vol. 4(2), pp 64-68, 2012. ISSN: 0975-3060 (Print),

- *A Utpat,R B Ingle,,M.Nandgaonkar Study of vibration response characteristics of deep groove Ball Bearings with localized defect on its races"* International Journal of Mechanical Engineering, ISSN-0039-2472, IMMM Publ. Slovak Republic, Vol. 62,No.5-6, pp 311-334, 2011

- *A. Utpat,R B Ingle,M.Nandgaonkar "Response of various vibration parameters to the condition monitoring of ball bearings used in centrifugal Pumps"* Noise and Vibrations Worldwide(ISSN 0957-4565, DOI10.1260/0957-4565.42.6.34), Multi-Science publ. Co.Ltd. Essex. UK· Vol. 42 No.6, pp 34-40, June-2011

- *A Utpat,R B Ingle,M.Nandgaonkar "Experimental approach for vibrational analysis of deep groove ball bearings with faulty outer ring"*International Journal of Emerging Technologies in Science and Engineering(IJETSE ISSN 1923- 9181), Vol. 4, No1, April-2011

- *A Utpat,R B Ingle,*M.Nandgaonkar, *"Experimental study of bearing failure analysis at higher speed by simulating local defect on its Races."*International Review of Mechanical Engineering (IREME ISSN-1970-8734), Vol.5, No.3, March-2011

- *R B Ingle,V.P. Jirafe, A. Khan, "A theoretical investigation on natural frequencies of vibration and noise due to engine and propeller system of Ultra Large Crude Carrier (ULCC)"*

International Journal of Low Frequency Noise, Vibration and Active Control, Multi-Science publ. Co. Essex. UK, Vol. 29 No.1 April-2010

- *A Utpat, R B Ingle, M.Nandgaonkar "Identification of the defects in high speed ball bearing using vibrational analysis",* International Journal of Mechanical system (IJMAE) (ISSN 0974-231X), Vol..3,No.4, Pp 25-32, Mar-May-2009

- *R.B.Ingle, B.B. Ahuja, "An Experimental Investigation on Dynamic Analysis of High Speed Carbon – Epoxy Shaft in Aerostatic Conical Journal Bearings",* International Journal Of Composite Science and Technology, Elsevier Publications Inc. UK) Vol.66, Pp 604-612, (2006)

xiii. No. of Books published with details

- Book Chapter:
- YS Munde, R B Ingle, AS Shinde, I Siva *" Micromechanical modeling abd evaluation of PALF composites through Representative Volume Element Method"*
- Book Title: Pineapple Leaf Fibres: Processing, Properties and Application, Springer.

i.	**Name**	Dr. Ajit Ashok Bhosale
ii.	**Date of Birth**	15 April 1974
iii.	**Unique id**	1-433866983
iv.	**Education Qualifications**	PhD Mechanical Engg.
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Industry – 03 Years Teaching- 18 Years
vi.	**Area of Specialization**	Design, Manufacturing Engineering, CAD CAM Automation
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	1. SOM 2. CAD/CAM 3. Hydraulic and Pneumatics 4. Engineering Graphics 5. Advance Manufacturing Processes
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	**a) Master:** Nil **b) PhD:** Nil
ix.	**Projects Carried out**	● Shelf Life Prediction Machine for Fruits (Apple) by Department of Science and Technology of Rs. 29,96.457/- ● MODROBS (Modernization & Removal of Obsolescence) Grant sanctioned for 20 lakh for year (2017-18)
x.	**Patents**	● A. Bhosale, K.K. Sundaram " An Instrument for predicting shelf life of fruits" Patent Application No. 3377/ MUM/ 2014
xi.	**Technology Transfer**	**NIL**
xii.	**Research Publications**	**10** **International Journals:** ● A. A. Bhosale Detection of Sugar Content in Citrus Fruits by Capacitance Method Elsevier Procedia Engineering 181 (2017) 466 – 471 ● A. A. Bhosale, K.K. Sundaram "Non Destructive Method for Ripening Prediction of Papaya" Accepted for Elsevier Procedia Technology. Vol. 19, (2015): 623-630. ● A.A. Bhosale, K. K. Sundaram "Firmness prediction of the apple using capacitance measurement". Elsevier Procedia Technology, Vol. 12 (2014) pages 163-167.

- A.A. Bhosale, K. K. Sundaram "Equation for predicting shelf life of an apple". Applied Mechanics & Materials vols. 52-54 (2011) pages 1936-1941.

- A.A. Bhosale, K. K. Sundaram "Equation for predicting shelf life of Fruit (Apple)",Journal of Biotechnology by Elsevier, Vol 150, supplement, November 2010 page 525.

- A.A. Bhosale, K. K. Sundaram "The life equation" Journal of Biotechnology by Elsevier VOL-136, Supplement 1, page 108, 2008.

- A.A. Bhosale, K. K. Sundaram "Animal Life Expectancy on energy intake". International Journal of Recent trends in Engineering Vol1.No-6, pages 77-80, 2009.

International Conference:

- A.A. Bhosale, K. K. Sundaram "Life Prediction equation for Human Beings" IEEE transaction 2010. ISBN: 978-1-4244-6775-4, DOI10.1109/ICBBT.2010.5478965 .
- A. A. Bhosale, Vasudevan Hari, Lakal Narendra and Rajendra Khavekar **"**Vibration Analysis Of An Assembly By Converting It Into A Simple Mass Spring System", international conference on "Advances in Materials Processing and Characterization (AMPC2006) Chennai.
- A. A. Bhosale, Vasudevan Hari, Lakal Narendra and Rajendra Khavekar**, "**A Modified Approach in Precision Manufacturing by Abrasive Flow Machining", National conference on Advances in Mechanical Engineering (Hyderabad: Vasavi College of Engineering, Hyderabad, Andhra Pradesh, India., May, 2005

xiii.	**No. of Books published with details**	**NIL**

i.	**Name**	**Dr. Anand K. Bewoor**
ii.	**Date of Birth**	13 Sept. 1976
iii.	**Unique id**	1-2482858150
iv.	**Education Qualifications**	B.E.(Mech.), M.E. (Mech.), Ph.D.(Mech.)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching- 16.5 Years Industry – 3.5 Years
vi.	**Area of Specialization**	Manufacturing Engg., Industrial Engg. and Quality Management
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	**B.E.:** Industrial Engineering Hydraulics & Pneumatics Operations Research Management Information System **T.E.:** Metrology & Quality Control Mechatronics **S.E.:** Manufacturing Processes I &II. **M.E.:** Design for Manufacturing and Assembly Research Methodology and System Engineering Measurement Techniques & Data Analysis Advanced Manufacturing Processes

Vii Research guidance:

i.	● **No. of papers published in National/ International**	● **Journal Papers = 38,** ● **Intl. Conf. Papers = 21, National Conferences = 13** ● **Master: 09.** ● **PhD: 3 scholars are awarded and 4 are currently working.**

Journals/ Conferences

- **Master**
- **Ph.D.**

ix. (Research) Projects Carried out

1.<u>Received research grant</u> to *Rajiv Gandhi Science & Technology Commission [Maharashtra Govt.]* (A.Y. 2019-21)

· Title : "Experimental investigation for developing cost effective instrument to predict remaining useful life of engine oil".

· **<u>Research Grants of Rs. 16,80,000/-</u>.**

2.<u>Successfully completed BCUD</u> sponsored research project (A.Y. 2016-18)

· Title : "Experimental Investigation of influence of oil mist parameters & lubrication oil on Minimum Quantity Lubrication".

· **<u>Research Grants of Rs. 1,15,000/-</u>.**

3.<u>Successfully completed BCUD</u> sponsored research project (A.Y. 2016-18)

· Title : "Experimental Investigation of Solar Desalination System Using Evacuated Tube Collector and Compound Parabolic Concentrator".

· **<u>Research Grants of Rs. 1,00,000/-</u>.**

4. <u>Successfully completed BCUD</u> sponsored research project (A.Y. 2013-15)

· Title : "Design and development of Mini-wind turbine set to generate a maximum power according to the speed of wind".

· **<u>Research Grants of Rs. 1,90,000/-</u>.**

x. Patents

1. *<u>Title of the invention</u>* : IMPROVED HEATER APPARATUS
   International classification : H01L21/00;
   Application No. : 2199/MUM/2007;
   Publication Date : 05/06/2009; Journal No. - 23/2009
2. 2. *<u>Title of the invention</u>* : AN IMPROVED EXHAUST GAS HEAT RECOVERY DEVICE
   International classification : F28D15/02;
   Application No. : 315/MUM/2008;
   Publication Date : 23/07/2010; Journal No. - 30/2010
3. *<u>Title of the invention</u>*: SYSTEM AND METHOD FOR DIAGNOSIS AND PREDICTION OF AUTOMOBILE ENGINE OIL QUALITY
   National (Indian Patent) : - /2/2550/2018/MUM
4. *<u>Title of Invention</u>* :- Hybrid Solar Desalination System
   Ref.No./ Application No. 201921032482, date:- 10/08/2019
   Indian Patent No. TEMP/E-1/34303/2019-MUM,

Patent Published :- The patent office Journal, vol 07/2021, P. 7767, 2019 (Indian Patent)

xi. Technology Transfer NIL

xii. Research Publications

Journal Papers = 38,

Intl. Conf. Papers = 21, National Conferences = 13

1. HP Jagtap, **AK Bewoor**, R Kumar, MH Ahmadi, MEH Assad, M Sharifpur, RAM analysis and availability optimization of thermal power plant water circulation system using PSO, Energy Reports 7 (November 2021), 1133-1153, 2021.[SCI]

2. SA Kedar, **AK Bewoor**, G Murali, R Kumar, M Sadeghzadeh, A Issakhov, Effect of Reflecting Material on CPC to Improve the Performance of Hybrid Groundwater Solar Desalination System, International Journal of Photoenergy 2021 (4), pp. 1-13, 2021.[SCI]

3. R Kumar, **AK Bewoor**, R Alayi, Utilization of Kitchen Waste-to-Energy: A Conceptual Note, Renewable Energy Research and Application, 1-9, 2021.

4. SA Kedar, G Murali, **AK Bewoor**, Mathematical Modelling and Analysis of Hybrid Solar Desalination System Using Evacuated Tube Collector (ETC) and Compound Parabolic Concentrator (CPC), Mathematical Modeling of Engineering Problems 8 (1) February-2021,[Scopus]

5. SA Kedar, G Murali, **AK Bewoor**, Effective hybrid solar groundwater desalination in rural areas, International Transaction Journal of Engineering, Management & Applied Science, 2021[ESCI]

6. HP Jagtap, **AK Bewoor**, R Kumar, MH Ahmadi, L Chen, Performance analysis and availability optimization to improve maintenance schedule for the turbo-generator subsystem of a thermal power plant using particle swarm optimization, Reliability Engineering & System Safety 204, 107130, 2020. [SCI]

7. S Patil, **A Bewoor**, R Patil, Availability Analysis of a Steam Boiler in Textile Process Industries Using Failure and Repair Data: A Case Study, ASCE-ASME J Risk and Uncert in Engrg Sys Part B Mech Engrg., 2020. [SCI]

8. HP Jagtap, **AK Bewoor**, R Kumar, MH Ahmadi, G Lorenzini, Markov-based performance evaluation and availability optimization of the boiler–furnace system in coal-fired thermal power plant using PSO, Energy Reports 6 (November 2020), 1124-1134, 2020. [SCI]

9. HM Shinde, **AK Bewoor**, Evaluating petrol engine oil deterioration through oxidation and nitration parameters by low-cost IR sensor, Applied Petrochemical Research 10 (2), 83-94, 2020. [SCI]

10. SS Patil, **AK Bewoor**, Reliability analysis of a steam boiler system by expert judgment method and best-fit failure model method: a new approach, [Scopus] International Journal of Quality & Reliability Management 38 (1), 2020.

11. HP Jagtap, **AK Bewoor**, R Kumar, Failure analysis of induced draft fan used in a thermal power plant using coordinated condition monitoring approach: A case study, Engineering Failure Analysis 111 (April 2020), 104442, 2020. [SCI]

12. P Tambolkar, A Ponkshe, V Mulay, **A Bewoor**, Use of Taguchi DOE for CFD Simulation to maximize the Reusability of Working Fluids of Centrifugal Filter, Procedia Manufacturing 46, 608-614, 2020. [Scopus]

13. A Gejji, S Shukla, S Pimparkar, T Pattharwala, **A Bewoor** Using a Support Vector Machine for building a Quality Prediction Model for Center-less Honing process, Procedia Manufacturing 46, 600-607, 2020. [Scopus]

14. Hanumant Jagtap, **Anand Bewoor**, Ravinder Kumar, Thermal Power Plant Condenser Fault Diagnosis Using Coordinated Condition Monitoring Approach, ***Instrumentation Mesure Métrologie***, Vol. 18, No. 3, June, 2019, pp. 223-235. [Scopus]

15. S A Kedar, A R Kumaravel, **A K Bewoor**, Experimental Investigation of Solar Desalination System Using Evacuated Tube Collector, ***International Journal of Heat and Technology*** *37 (2), 2019, pp.527-532*. [Scopus]

16. Sham S. Kulkarni and **Anand K. Bewoor**, 'Analysis of Distributed Defect on Outer Ring of Ball Bearing under Radial Load: A Theoretical and Experimental Approach', ***Journal of Engineering Science and Technology***, *13 (11), 3764-3780.* [Scopus]

17. K. B. Gavali, **A. K. Bewoor** and Debabrata Barik, 'Effective Utilization of Job Shop Scheduling in Auto Industries with the aid of Social Spider Optimization', ***Journal of Green Engineering***, 8 (4), 2018, pp. 475-496.

18. V. Awadhani, and **A. K. Bewoor**, 'Parametric study of composite bolted joint under compressive loading', *Elsevier* ***Procedia Manufacturing***, *22, 2018, pp.186-195.* [Scopus]

19. **Anand Bewoor** and Sham Kulkarni, 'Interoperability of International standards, condition monitoring methods and research models for bearing fault: An Integrated Approach', ***Procedia Manufacturing***, *22, 2018, pp. 982–989.* [Scopus]

20. K. B. Gavali, **A. K. Bewoor**, Debabrata Barik and V. Prabagaran, 'Performance Enhancement in Job Shop Scheduling with the Aid of Hybrid Social Spider Optimization and Gray Wolf Optimization', ***International Journal of Applied Engineering Research***, *12 (21), 2017, pp. 10530-*

10540. [Scopus]

21. K. B. Gavali, **A. K. Bewoor** and Debabrata Barik, 'Job shop scheduling with the aid of hybrid social spider optimization and gray wolf optimization with industrial scheduling case study', ***International Journal of Mechanical Engineering and Technology****, 8 (10), 2017, pp. 274–284.*

22. S. S. Kulkarni, **A. K. Bewoor** and R. B. Ingle, 'Vibration signature analysis of distributed defects in ball bearing using wavelet decomposition technique', ***Noise and Vibration Worldwide****, Vol. 48 issue: 1-2, 2017,* pp.7-18. http://doi.org/10.1177/0957456517698318. [Scopus]

23. S. S. Kulkarni, **A. K. Bewoor** and R. B. Ingle, 'Experimental Investigation for distributed defects in ball bearing using vibration signature analysis', *Elsevier* ***Procedia Engineering****, Vol.144, 2016, pp. 781–789.* https://doi.org/10.1016/j.proeng.2016.05.086. [Scopus]

24. S. S. Kulkarni, **A. K. Bewoor** and R. B. Ingle, 'The Theoretical model and experimental validation for distributed defect on inner race of ball bearing under radial load', ***Noise and Vibration Worldwide****, Vol. 47, Issue: 5-6, 2016, pp. 67-79.* http://doi.org/10.1177/ 0957456516672555. [Scopus]

25. Jagtap H. P. and **Bewoor A. K.**, 'Methodology for identification of critical equipment in thermal power plant using criticality analysis', ***Discovery Engineering,*** *2016, 4(12), pp 291-298.*

26. Sham Kulkarni and **Anand Bewoor**, 'Vibration based condition assessment of ball bearing with distributed defects', ***Journal of Measurements in Engineering,*** *Vol. 4, Issue 2, June (2016), pp. 43-12*. [Scopus]

27. P. R. Kulkarni, **A. K. Bewoor**, S. P. Kallurkar, 'An Empirical Study of Factors Affecting Productivity of Solapur Based Terry Towel Manufacturing Textile Industries', ***International Journal of Industrial Engineering Research,*** *Volume 5, Issue 1, January - February (2014), pp. 31-38.*

28. P. R. Kulkarni, **A. K. Bewoor**, S. P. Kallurkar, 'Review of parameters affecting productivity of Textile SMEs', ***International J. of Multidisciplinary Research & Advances in Engineering, ISSN 0975-7074,*** *Vol. 5, No. III-July. 2013, pp. 57-68.*

29. A Bhandare, P Bahirat, V Nagarkar, **A Bewoor**, Postural analysis and quantification of fatigue by using RULA and REBA techniques, ***International Journal of Mechanical and Production Engineering****, Vol. 1, Issue- 3, 2013, pp. 46-50.* [Scopus]

30. M. S. Dhamale and **A. K. Bewoor**, 'Critical review of research in use of laser beam welding in automotive sector', ***International Journal of Engineering Research and Industrial Applications,*** *Vol. 6, No. II, May*

2013.

31. **Anand K. Bewoor** and Maruti S. Pawar, 'An empirical study of the motives and benefits of QMS/ISO implementation among Indian SMEs', ***International Journal of Productivity and Quality Management,*** *Vol. 6, Issue 4, 2010, pp. 379-406.* [Scopus]

32. **Anand K. Bewoor** and Maruti S. Pawar, 'An empirical analysis of impact of QMS/ISO implementation on productivity/performance of Indian SMEs', ***International Journal of Industrial Engineering and Technology,*** *Vol. 2, No. 1, 2010, pp. 85-109.*

33. **Anand K. Bewoor** and Maruti S. Pawar, 'Mapping Macro/Micro Level Critical Links for Integrating Six Sigma DMAIC steps as a Part of Company's Existing QMS Processes: An Indian SME Case Study', ***International Journal of Six Sigma and Competitive Advantage,*** *Vol. 6, Nos. 1/2, 2010, pp. 105-131.* [Scopus]

34. **Anand K. Bewoor** and Maruti S. Pawar, 'Use of Shining Tools for Simplifying Six Sigma implementation in QMS/ISO Certified Environment– an Indian SME Case Study'***, Journal of Engineering Research and Study,*** *Vol. I, Issue No. II Oct.- Dec.,2010, pp.177-194.*

35. **Anand K. Bewoor** and Maruti S. Pawar, 'Developing and Implementing Quality Six Sigma(QSS) - an Integrated QMS and Six Sigma Methodology for Improving Quality and Productivity/ Performance of SME – An Indian Case Study'***, International Journal of Emerging Technologies and Applications in Engineering, Technology & Sciences****, Vol. 2, Issue 2, 2009, pp. 222-228.*

36. **Anand K. Bewoor** and Maruti S. Pawar, 'Evaluating the Relationship between Installation and Use of ISO 9001 on Operating and Business Performance of Indian SMEs'***, International J. of Multidisciplinary Research & Advcs. in Engg.,*** *Vol. 4, No. I, Jan. 2012, pp. 461-478.*

37. J H Shinde, **A K Bewoor** and A C Chikate, 'Experimental investigation of optimization of process parameters for machining – non-conducting material by ECDM process', ***Manufacturing Technology Today Journal,*** *Jan. 2006 Issue*.

38. VA Kulkarni and **A K Bewoor**, 'Design optimization for reliability importance of components in hydraulic trainer system', ***Manufacturing Technology Today Journal,*** *Jan. 2005 Issue*.

- **<u>Papers presented in International Conferences</u>**

1. **Anand Bewoor**, Sagar Sapkal and Pratiksha Dhaygude, Mapping Lean Six Sigma with 8D Problem Solving Methodology to Improve Productivity and Safety: A Case Study, **4th International Conference on Innovations in Mechanical Engineering** (ICIME-20-21), **Feb.**

2021, **GNI India**.

2. N.R.Patil, N. D. Waghole and **Anand Bewoor**, Effects of MoS2 based biodegradable cutting fluids in MQL during turning of stainless steel, **4th International Conference on Innovations in Mechanical Engineering** (ICIME-20-21), **Feb. 2021**, **GNI India**.
3. 'Availability Simulation Modeling and Performance Evaluation of Coal Supply System of Thermal Power Plant Using Markov Probabilistic Approach', **4th International Conference on Reliability, Safety and Hazard** (ICRESH-2019), **Jan 2019, IIT Madras.**
4. 'Behavior of single lap composite bolted joint under traction loading: Experimental Investigation', **AIP Conference Proceedings 1943**, 020124 (2018); https://doi.org/10.1063/1.5029700. AIP Publishing.
5. 'Capacitive Sensor for Engine Oil Deterioration Measurement', **Advances in Mechanical Design, Materials and Manufacture, AIP Conf. Proc. 1943**, 020099-1–020099-6; https://doi.org/10.1063/1.5029675,
6. 'Behavior of single lap composite bolted joint under traction loading: Experimental investigation', **Advances in Mechanical Design, Materials and Manufacture, AIP Conf. Proc. 1943**, 020124-1–020124-5; https://doi.org/10.1063/1.5029700, Published by AIP Publishing.
7. 'Development of an algorithm for identification and confirmation of fault in thermal power plant equipment using condition monitoring technique', **10th International Conference Interdisciplinary in Engineering, INTER-ENG 2016, "Petru Maior" University of Tîrgu-Mureș - Faculty of Engineering, Romanian.**
8. 'Use of Analytic Hierarchy Process Methodology for Criticality Analysis of Thermal Power Plant Equipment', **5th International Conference of Materials Processing and Characterization (ICMPC 2016)** at **Dept. of Mech. Engg., GRIET, Hyderabad.**
9. 'Methodology for Identification of Critical Equipment in Thermal Power Plant Using Criticality Analysis', ***International Conference on Trends in Industrial and Mechanical Engineering***, pp. 310**,** 4th - 6th Feb., 2016, at **Dept. of Mech. Engg., M.A.N.I.T., Bhopal.**
10. 'Role of Lean Six Sigma in Quality Management Practices: A Case Study', ***International Conference on Industrial Engineering (ICIE-2013)***, **Dept. of Mech. Engg. S.V.N.I.T., Surat, India**. 20th -21st Nov. 2013.
11. 'A Multi Criteria Decision Making Model for Supplier Selection and Evaluation: Case of Kraljic Model', ***International Conference on Industrial Engineering (ICIE-2013)***, **Dept. of Mech. Engg. S.V.N.I.T., Surat, India**. 20th -21st Nov. 2013.
12. 'Study of Variables of Textile Manufacturing Industries and their effects on Productivity of Solapur based SMEs' ***International Conference on Industrial Engineering (ICIE-2013)***, **Dept. of Mech. Engg. S.V.N.I.T., Surat, India**. 20th -21st Nov. 2013.
13. 'Postural Analysis and Quantification of Fatigue by using RULA and REBA techniques', ***International Conference on Mechanical And***

Production Engineering (ICMPE-2013), Institute of Technology and Research, Pune, 15th Feb 2013.

14. 'An Expert Advisory System for ISO 9001 based QMS of Manufacturing Environment' ***IEEE International Conference on Communication, Information & Computing Technology (ICCICT-2012)*** **Sardar Patel Institute of Technology, Mumbai, India,** 19th - 20th Oct. 2012.
15. 'Simplifying Six Sigma implementation using Shining tools in QMS/ISO certified environment', ***12th Annual Conf. of Soc. of Operations Management,*** **I. I. T., Madras, Chennai, India,** 19th -21st Dec. 2009.
16. 'An Investigative Study of an Impact of Quality Management System Implementation on Key Technical-Decisions Made and their Implementation and their Effects on Productivity/Performance of Small and Medium Scale Engineering Industries (SMSEIs) in India', ***International Conference on Decision Making***, **I.I.T., Bombay, Mumbai, India,** 3rd -5th Jan. 2009.
17. 'Developing Integrated Model of Six-Sigma Methodology and Quality Management System for Improving Quality Productivity and Competitiveness', ***12th Annual Conference of Society of Operations Management***, **I. I. T., Kanpur**, **India,** 19th – 21st Dec. 2008.
18. 'An investigative study of an impact of QMS implementation on key technical decisions and its effects on productivity/ performance of small and medium scale engineering industries (SMSEIs) in India' ***2nd Int. Conf. on ILSCM 2008***, **P.S.G Tech, Coimbature, India,** 7th - 8th Aug. 2008.
19. An investigative study of the impact of QMS implementation on key technical decisions and its effects on productivity / performance of Indian industries, ***15th ISME International Conference on Advances in Mechanical Engineering***, **R.G.T.U., Bhopal, India,** 18th -20thMar. 2008.
20. 'The Critical Review of Effect of Quality Management System Implementation on Performance of Small and Medium Scale Engineering Industries', ***International Conference on Advances in Manufacturing Engg.-2007***, **Manipal Institute of Tech., Manipal, Karnataka, India,** 24th -26th Oct. 2007.
21. 'A review of use of Artificial Neural Network used for Predicting Tribological Properties', ***International Conference on Advances in manufacturing and technology management***, P.C.O.E., Mumbai, India, 18th -20th Jan. 2007.

Papers presented in National Conferences = 11

1. Understanding company's readiness to establish APQP as a standard QMS procedure, *National Conference on Recent Trends in Mechanical Engineering 1 (1), 1-7,* 2020.
2. "Solar Desalination System Using Evacuated Tube Collector & Compound Parabolic Concentrator- Theoretical Approach" *National Conference on Advancements in Electrical Engineering*

and Energy Sciences (AEEES-2016), NIT Hamidpur, May 24-25, 2016

3. Use of Lean SMED tool for improving Productivity', *State Level Conference at D.C.O.E.R.* Pune, MS, India, 25th -26th Mar. 2013.
4. 'Advance Product Quality Planning (APQP): A Quality Framework for developing new products', Published in proceeding of *National conference on Quality Engg*., D.Y.C.O.E., Akurdi, 4th - 6thOctober 2007.
5. 'A review of machining performance evaluation of commercially available coatings on tungsten based cemented carbide tools', Proc. Of *National conference on Factory Automation, Robotics Computing,* NIT, Warangal, 18th-19th Jan. 2007.
6. Presented paper "Prediction of change in friction in diesel engine by using Shaining DOE Techniques", Published in proceeding of *National conference on B. A. I. T., Coimbatoure*, T.N., 11-12 April 2006.
7. Presented & Published "An agent based computer approach for computer aided process planning", proceeding of *National conference on Sun Raising Technologies* by PCOE, Thane, Mumbai, 18-19 Nov.-2005.
8. Presented & Published "An agent based system approach for enhancing manufacturing product development", proceeding of *1st national conference on recent development in Mechanical Engineering* SVERI'S COE, Panndharpur, 18-19 Nov.-2005.
9. Published "A genetic algorithm for conflict resolution in concurrent production development", proceeding of a *National conference on Sun raising technology*, PCOE, Thane, Mumbai,18-19 Nov.-2005.
10. "Comparative analysis using analytical and finite element method of constant stress developed between two rolling discs", Proc. Of *National conference on Technological Advancements in Mech. Engg.* SIST, Hydrabad, 2-3 Dec.-2005.
11. Published paper "Fused deposition modeling method used for design and preparation of rapid prototyping model of semi enclosed impeller", proceeding of *National conference on advances in CAD/CAM*, JNTU, Kakinada, A.P., 27-28 Feb.2006.
12. "Sixsigma an application of statistical methods to business process for improving operating efficiencies – A case study", *National conference on recent trends in Mechanical Engg.* SRESCOE, Kopargaon,23-24 July-2004.
13. "Face milling tool path generating of work part using unigraphics-CAM", *National Conference on Global Technologies in Manufacturing and Thermal Sciences*, SETNU Institute of Technology, 9-10 July-2004.

Outcome Based Education / Student Centric Education

1. **AK Bewoor, Use of Think-Pair-Share (TPS) as an Active Learning Strategy to Teach Metrology Course, *Cummins College Digest of Engineering Education*, 1 (1), 5-12, 2020**

System: Research Papers

2. A. D. Patange, **A. K. Bewoor,** S. P. Deshmukh, S. S. Mulik, **Improving program outcome attainments using project based learning approach for: UG Course – Mechatronics, Regional Research Symposium on PBL November 22-23, Organized by Centre for Engineering Education Research, KLE Technological University, Hubballi, in Collaboration with Aalborg Centre for Problem Based Learning in Engineering Science and Sustainability under the auspices of UNESCO, Aalborg University, Denmark, 2019.**
3. **Anand K. Bewoor** and Vinay A. Kulkarni**, Use of Think-Pair-Share (TPS) as an active learning strategy to teach quality control, in association with ISTE *National Symposium on Innovations in Teaching-Learning Process*, December 08, D Y Patil College of Engineering, Akurdi, Pune, 2018.**
4. Yogesh Mahadevaiah, Manohar Joshi, **Anand Bewoor, Continual Improvement of overall performance to achieve Academic Excellence in Education by Automating Accreditation processes using IonCUDOS, *National Seminar on "Rejuvenation of Undergraduate Education in India" (RUEI-2018)*, in collaboration with the National Assessment and Accreditation Council (NAAC), Association of Indian Universities (AIU) and Karnataka State Higher Education Council (KSHEC), at IIC Bengaluru, August 10-11, 2018**.
5. Vinay A. Kulkarni and **Anand K. Bewoor, Employability Skill Matrix for Engineering Graduates of Tier-II Institutes, *Journal of Engineering Education Transformations*, Vol. 30, No. 3. ISSN 2349-2473., 2017.**

Book chapters

1. Suyog S. Patil, **Anand K. Bewoor**, Rajkumar B. Patil, Mohamed Arezki Mellal, Maintenance data-trends based reliability, availability, and maintainability (RAM) assessment of a steam boiler, Book Title: Predictive Analytics: Modeling and Optimization 1, 261, 2021
2. HP Jagtap, **A. K. Bewoor**, F Pathan, K Ravinder**, *Application of Particle Swarm Optimization Method to Availability Optimization of Thermal Power Plants*, Book Title: Nature-Inspired Optimization in Advanced Manufacturing Processes and Systems, CRC Press, 2020.**
3. HP Jagtap, **A. K. Bewoor, *Markov probabilistic approach-based availability simulation modeling and performance evaluation of coal supply system of thermal power plant*, Book Title: Reliability, Safety and Hazard Assessment for Risk-Based Technologies, Springer, 2020.**
4. **Anand Bewoor,** Hanumant Jagtap, Ravinder Kumar, Dipen Kumar Rajak and Mohammad H. Ahmadi**, *'Reliability analysis using condition monitoring approach in thermal power plants'*, Book Title: Reliability Management and Engineering: Challenges and Future Trends, CRC Press, May 2019.**

5. Ravinder Kumar, **Anand Bewoor,** Hanumant Jagtap, ***'Traditional and non-traditional optimization techniques to enhance reliability in process industries',*** **Book Title: AI Techniques for Reliability Prediction for Electronic Components, IGI Global Publn., June 2019.**

xiii No. of Books published with details

Books = 14,

Year of Publication	Title	Level of Publication	Publisher
Books published as International Edition			
April 2013	"Integrating ISO 9001 Quality Management System with Six Sigma for Improving Productivity and Performance of SMEs"	International (E-Book)	LAP Publication, Germany
May 2009	"Metrology and Measurements"	International	Tata McGrawhill, New Delhi.
July 2009	"Quality Control"	International	John Wiley, New Delhi
June 2009	"Manufacturing Processes Planning and System Engineering"	International	Dream Tech Publication, New Delhi.
Books published as National Edition			
Dec. 2015	"Industrial Engineering"	National	Tech-Max Publication, Pune.
July 2014	"Hydraulics and Pneumatics"	National	Nirali Publication, Pune
Oct. 2011	Quantitative and Decision Making Techniques	National	Nirali Publication, Pune
June 2010	"Industrial Engineering and Technology Management" 3rd Ed.	National	Tech-Max Publication, Pune.
June 2010	"Management Information System"	National	Nirali Publication, Pune
Dec. 2009	"Production Technology"	National	Nirali Publication, Pune

Dec. 2007	"Manufacturing Processes - II"	National	Nirali Publication, Pune.
Jan. 2007	"Industrial Fluid Power" 3rd Ed.	National	Nirali Publication, Pune.
June 2005	"Industrial Engineering and Management"	National	Nirali Publication, Pune.
September 2004	"Production Planning and Control"	National	Satya Publication, New Delhi.

i.	**Name**	Dr. Gautam S. Chandekar
ii.	**Date of Birth**	17/09/1978
iii.	**Unique id**	1-759721516
iv.	**Education Qualifications**	Ph.D.(Mech.), MS (Mech.)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching- 13 Years, Research – 01 Years
vi.	**Area of Specialization**	Machine Vibrations, Finite Element Method, Composite Material
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	i. Advanced Mathematics and Numerical Techniques (PG) ii. Finite Element Analysis (PG and UG) iii. TOM I (UG) iv. TOM II (UG) v. Rigid Body Dynamics (UG) vi. Analysis and Synthesis of Mechanisms (UG)
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● Master: 3 Completed, 4 Pursuing ● PhD: 1 Pursuing
ix.	**Projects Carried out**	NIL
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	● Chandekar, G., Richardson, J., Melnikov, Y., and Pardue, S. \Green's Function Method for an Axisymmetric Void Between Parallel Walls." Electronic Journal Of Boundary Elements, 5(2), (2007). Available at: http://ejbe.libraries.rutgers.edu/index.php/ejbe/article/view/790 ● Gautam S. Chandekar, Bhushan S. Thatte, and Ajit D. Kelkar, \On the Behavior of Fiberglass Epoxy Composites under Low Velocity Impact Loading", Advances in Mechanical Engineering, vol. 2010, Article ID 621406, 11 pages, doi:10.1155/2010/621406, (2010). Available at:http://www.hindawi.com/journals/ame/2010/621406.html ● Gautam S. Chandekar, Ajit D. Kelkar, and Ram V. Mohan, \Comparative Study of Different Weave Architectures of Woven Textile Composites under Low Velocity Impact

Loading", ASME International Mechanical Engineering Congress and Exposition,, Proceedings, Vol. 13, Part B, Pg. 1127 - 1131, (2009).

- Bhushan S. Thatte, Gautam S. Chandekar, Ajit D. Kelkar, and PramodChaphalkar, \ Studies on Behavior of Carbon and Fiberglass Epoxy Composite Laminates under Low Velocity Impact Loading using LS-DYNA", 10th International LS-DYNA Users Conference, Impact Analysis, Pg. 943 to 954, (2008).
- Ajit D. Kelkar, Gautam S. Chandekar, B. S. Thatte, Ram Mohan and R. Bolick, \Modeling of Hybrid Composites under Low Velocity Impact Loading", 4th International Conference on Advances in Structural Engineering and Mechanics (ASEM'08), (2008).
- Ajit D. Kelkar, Gautam S. Chandekar, and Ram V. Mohan, \Prediction of Material Properties of Single Walled Carbon Nanotube using MD Simulations", 2008 8th IEEE Conference on Nanotechnology, IEEE-NANO, Pg. 370 to 373, (2008).
- SachinShendokar, Ajit D. Kelkar, Ram V. Mohan, Ronnie Bollick, Gautam S. Chandekar, "Effect of Sintering Temperature on Mechanical Properties of Electrospun Silica nano fibers", ASME International Mechanical Engineering Congress and Exposition, Proceedings, Vol. 13, Part B, Pg. 1133 to 1138, (2009).
- Gautam S. Chandekar, Richard D. Hercamp, Douglas D. Hudgens \Modeling of the Effect of Coolant Physical Properties on the Potential of Diesel Engine Liner Cavitation", SAE (Society of Automotive Engineers) Technical Paper, doi:10.4271/2012-01-1682, (2011).
- Gautam S. Chandekar, Ajit D. Kelkar, Experimental and Numerical Investigations of Textile Hybrid Composites Subjected to Low Velocity Impact Loadings, The Scientific World Journal Volume 2014 (2014), Article ID 325783, 14 pageshttp://dx.doi.org/10.1155/2014/325783

xiii. No. of Books published with details NIL

i.	**Name**	Dr. Deepak S. Watvisave
ii.	**Date of Birth**	02//9/1973
iii.	**Unique id**	Associate Professor
iv.	**Education Qualifications**	Ph. D. (Mech.), M. E. (Design Engg.), B.E. (Mech.)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Total 25.5 Years (Industry - 05 Years, Teaching-15.5 Years, Research- 5 Years)
vi.	**Area of Specialization**	FEM, CFD, Fluid Dynamics, Molecular Dynamics, Machine Design
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	Dynamics of Machinery, Theory of Machines I & II Mechanical Design Mechanical Vibrations Analysis and Synthesis of Mechanism Advanced Mathematics Fluid Dynamics CFD
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● Master: 10 completed ● PhD: 2 (registered)
ix.	**Projects Carried out**	1. Ongoing: Skill and Personality Development Center (Rs. 13.36 Lakhs, AICTE) 2. Ongoing: DST grant 30,00000/-
x.	**Patents**	Nil
xi.	**Technology Transfer**	Nil
xii.	**Research Publications**	1) A hybrid MD-DSMC coupling method to investigate flow characteristics of micro-devices, DS Watvisave, BP Puranik, UV Bhandarkar, Journal of Computational Physics 302, 603-617, 2016 2) Modeling wall effects in a micro-scale shock tube using hybrid MD–DSMC algorithm DS Watvisave, BP Puranik, UV Bhandarkar, Shock Waves 4 (26), 477-489, 2016 3) Simulation of Interaction of Strong Shocks with Gas Bubbles using the Direct Simulation Monte Carlo Method, B Puranik, D Watvisave, U Bhandarkar, APS Division of Fluid Dynamics Meeting Abstracts, 2016 4) Effects of wall conduction and rarefaction on shock propagation in a micro-channel DS Watvisave, UV Bhandarkar, BP Puranik, Shock Waves 3 (24), 295-306, 2014

5) Investigation of Wall Effects on Flow Characteristics of a High Knudsen Number Nozzle, DS Watvisave, UV Bhandarkar, BP Puranik Nanoscale and Microscale Thermophysical Engineering 17 (2), 124-140, 2013

6) A Hybrid MD-DSMC Algorithm to Model Wall Effects in a Micro-scale Shock Tube, DS Watvisave, BP Puranik, UV Bhandarkar, 29th International Symposium on Shock Waves 2, ISBN 978-3-319-16837-1, 2015

7) A DSMC-MD Investigation of Wall Effects in a Shock Tube Operating at High Knudsen Numbers, DS Watvisave, UV Bhandarkar, BP Puranik, 28th International Symposium on Shock Waves, 199-204, 2015

8) An Investigation of Pressure Boundary Conditions for the Simulation of a Micro-Nozzle using DSMC Method, Watvisave D.S., Puranik B.P., Bhandarkar U.V., 28th International Symposium on Shock Waves 1, 2481, 2013

9) Numerical Investigation of Shock Tube Flow under Rarefied Conditions, DS Watvisave, UV Bhandarkar, BP Puranik, AIP Conference Proceedings 1333 (1), 372-377, 2011

xiii.	**No. of Books published with details**	Nil

i.	**Name**	Sunil Prabhakar Divekar
ii.	**Date of Birth**	04/ 04/ 1962
iii.	**Unique id**	1-433701341
iv.	**Education Qualifications**	ME (Metallurgy)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Industry – 01 Years, Teaching- 31 Years
vi.	**Area of Specialization**	Metallurgy, Materials Engineering.
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	1. Materials Technology 2. Non Destructive evaluation and testing
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● Master: NIL ● PhD: NIL
ix.	**Projects Carried out**	Fabrication of prototype for uniform roasting of coffee beans. Design and manufacturing of table top rolling machine. Design and manufacturing of Dual disc lapping machine for metallographic sample preparation.
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL
xiii.	**No. of Books published with details**	1. “Metallurgy” Sunil P. Divekar and Vinay R Kulkarni, Techmax Publications, 2010. ISBN 978-81-8492-160-1 2. “Material Science and Metallurgy”, Sunil P. Divekar and Vinay R. Kulkarni, Techmax Publications, 2009, ISBN:978-81-8492-204-2

i.	**Name**	Dr**.** Parag Sudhir Chaware
ii.	**Date of Birth**	21-06-1978
iii.	**Unique id**	1-433701123
iv.	**Education Qualifications**	ME Mechanical, Ph.D (Mechanical)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Industry – 01 Year, Teaching- 19 Years, Research –00 Years
vi.	**Area of Specialization**	Heat Transfer, Fluid Mechanics
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	1. Heat transfer 2. Fluid Mechanics 3. Fluid Power 4. Engineering Graphics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● **Master**: CFD Modelling Strategy for Liquid Ring Vacuum Pump ● **PhD**: NIL
ix.	**Projects Carried out**	● CFD analysis of Heat transfer through a Pipe with twisted tape insert- University of Pune - 2008-2010
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL

xii. Research Publications

Conference

1. CITICOMS -2007 Coimbatore,27 -28 August 2007, Comparison of turbulence Models and near wall treatments for the flow in a circular tube with the twisted tape insert.
2. FLUENT user conference, Bangalore, Nov 07 2007, Heat transfer Augmentation using twisted tape insert,
3. Parag Chaware & C. M. Sewatkar, Selection of Turbulence model for the flow in tube with twisted tape insert, 40th National Conference on Fluid Mechanics and Fluid Power, NIT Hamirpur, Dec. 2013.

4. Parag Chaware & C. M. Sewatkar, Effect of Reynolds number on a flow through pipe with twisted tape insert, 41st National and 5th International, Conference on Fluid Mechanics and Fluid Power, IIT Kanpur, Dec. 2014
5. Parag Chaware & C. M. Sewatkar, Large Eddy Simulation of a flow through pipe with twisted tape insert, 20th Australasian Fluid Mechanics Conference (AFMC), Perth Australia, Dec-2016.
6. Parag Chaware & C. M. Sewatkar, Effects of tangential velocity on fluid flow and heat transfer for turbulent ow through pipe with twisted tape insert , 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power December 15-17, 2016, MNNITA, Allahabad.
7. Parag Chaware & C. M. Sewatkar, Numerical analysis of flow through pipe with twisted tape insert, 24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2017), BITS Hydrabad, Dec- 2017
8. Parag Chaware & C. M. Sewatkar, Flow Transition in a pipe with twisted tape insert, 7th International and 43rd National Conference on Fluid Mechanics and Fluid Power December 14-17, 2018, IIT, Mumbai
9. Parag Chaware & C. M. Sewatkar, Flow Reversal in a pipe with twisted tape insert, 7th International and 43rd National Conference on Fluid Mechanics and Fluid Power December 14-17, 2018, IIT, Mumbai

Journal

1. Parag Chaware & C. M. Sewatkar, Effect of tangential and radial velocity on flow through a pipe with twisted tape insert- Turbulent Flow , International Journal of Heat and Technology, 35(4), 811820, Dec-2017. doi:10.18280/ijht.350417

2. Parag Chaware & C. M. Sewatkar, Effect of tangential and radial velocity on a flow through pipe with twisted tape insert- Laminar Flow , SADHANA - Academy Proceedings in Engineering Sciences, Sādhanā 43, no. 9 (July 27, 2018). doi:10.1007/s12046-018-0893-z.

3.Parag Chaware & C. M. Sewatkar, Flow Transitions for flow through a pipe with twisted tape insert , ASME Journal of Fluids Engineering, 141(11), 111110. doi:10.1115/1.4043557.

xiii. No. of Books published with details — **Nil**

i.	**Name**	Poonam Arun Bhore
ii.	**Date of Birth**	26-08-1982
iii.	**Unique id**	1-433701349
iv.	**Education Qualifications**	M Tech (Design), Pursuing Ph.D (Mechanical)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching- 15 Years
vi.	**Area of Specialization**	Mechanical Design
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	Mechanical System Design Theory of Machine I,II Quantitative Techniques and Decision Making Strength of Material Basic Mechanical Engineering Engineering Graphics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	Master: 01 completed PhD:NIL
ix.	**Projects Carried out**	NIL
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL
xiii.	**No. of Books published with details**	NIL

i.	**Name**	Rujuta Ameet Agavekar
ii.	**Date of Birth**	11/09/1975
iii.	**Unique id**	1-433701513
iv.	**Education Qualifications**	M.Tech
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Industry – 02 Years, Teaching- 13 Years
vi.	**Area of Specialization**	Thermal Engineering
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Basic Mechanical Engineering ● Thermodynamics ● Refrigeration and Air Conditioning ● Numerical Methods and Optimization ● Applied Thermodynamics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● **Master:** NIL ● **PhD:** NIL
ix.	**Projects Carried out**	Nil
x.	**Patents**	Nil
xi.	**Technology Transfer**	Nil
xii.	**Research Publications**	Nil
xiii.	**No. of Books published with details**	Nil

i.	**Name**	Nitin Raghunath Patil
ii.	**Date of Birth**	29/11/1975
iii.	**Unique id**	1-433701851
iv.	**Education Qualifications**	M.Tech.(Design Engineering) Ph.D.(Pursuing)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching-23 Years
vi.	**Area of Specialization**	Design Engineering
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Machine Design ● Transmission System Design ● Engineering Mechanics. ● Dynamics of Machinery. ● Engg. Graphics. ● Basic Mechanical Engg.
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● **Master:** Nil ● **PhD:** Nil ● Paper presented on, 'Condition Monitoring of Rolling Contact Bearings using C.W.T.', at National Level Conference AIM-2008, Manipal Instt. of Technology. ● Paper on, 'Design, Development and Performance Analysis of Coil Pump', published in International Journal, Applied Mechanics and Materials- 2014, Trans Tech Publications, Switzerland.
ix.	**Projects Carried out**	● Design, Development and Performance Analysis of 'Helical Coil Pump'. ● Design, Development and Performance Analysis of 'Spiral Coil Pump' ● Performance investigations of eco-friendly cutting fluids on machining operations with M.Q.L.
x.	**Patents**	Nil
xi.	**Technology Transfer**	Nil
xii.	**Research Publications**	Nil
xiii.	**No. of Books published with details**	Nil

i.	**Name**	Harish Mohan Shinde
ii.	**Date of Birth**	09/04/1984
iii.	**Unique id**	1-433701855
iv.	**Education Qualifications**	M.E. Mechanical (Automotive Engg.) Pursuing Ph.D (Mechanical)
v.	**Work Experience:**	16 Years
	● **Teaching**	12 Years
	● **Research**	
	● **Industry**	4 Years
	● **Others**	
vi.	**Area of Specialization**	Manufacturing Technology, Automotive Engg

vii. Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level

- F. Y. : Engineering Graphics (I , II)
- S. Y. : Manufacturing Processes I
- S. Y. : Applied Thermodynamics
- S. Y. : Computer Aided Machine Drawing
- S. Y. : Manufacturing Processes II
- T. Y. : Jigs and Fixture Design
- Final Y.: Automotive Engineering

Viii. Research guidance:

- **No. of papers published in National/ International Journals/ Conferences**

- Participated & Presented Paper “Effect of change in compression ratio on performance of diesel engine using Karanja oil biodiesel” in National Conference Emerging Trends in Engineering, Science, Technology and Management on 24 April 2012.
- Participated & Presented Paper in ““Effect of change in compression ratio on performance of diesel engine using Fish oil biodiesel” International Conference ICMET2012 on 26 May 2012.
- Participated & Presented Paper in “Analyzing the relationship between the deterioration of engine oil in terms of change in viscosity, conductivity and transmittance” IEEE International Conference on Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017), MNNIT Allahabad, on Feb. 3-5, 2016.
- Participated & Presented Paper in “Capacitive Sensor for Engine Oil Deterioration Measurement”, in International Conference on Design, Materials & Manufacturing (IcDeM 2018) at NITK, Surthkal, on 29-31 January, 2018. Published at AIP Conference Proceedings 1943, 020099 (2018); doi: 10.1063/1.5029675
- Viscosity Assessment for Quantifying Engine Oil Deterioration Using New Cost-effective and Handy

Fluid Property Sensor. International Journal of Advanced Science and Technology, 29(7), (2020) 8649-8659. Retrieved from http://sersc.org/journals/index.php/IJAST/article/view/24958. Scopus Index.

- Evaluating petrol engine oil deterioration through oxidation and nitration parameters by low-cost IR sensor. Appl Petrochem Res (2020). https://doi.org/10.1007/s13203-020-00248-6. E-SCI, Web of Science.

- **Master** **: 02**
- **Ph.D.** **: NIL**

ix. Projects Carried out

- Received research grant to *Rajiv Gandhi Science & Tech. Commission* [Maharashtra Govt.] has sanctioned a sponsored research projects (A.Y. 2019-22)
  Title : "Experimental investigation for developing cost effective instrument to predict remaining useful life of engine oil".
  Research Grants of Rs. 16,80,000/-

- BCUD has sanctioned a sponsored research project (A.Y. 2016-18).
  Title :"Experimental Investigation of influence of oil mist parameters & lubrication oil on Minimum Quantity Lubrication.
  Research Grants of Rs. 1,15,000/-.

- Effect of change in compression ratio on performance and emission of IC engine by using Biodiesel (Karnaja oil and Jatropha oil).

- Effect of change in compression ratio on performance and emission of IC engine by using Biodiesel (Acid oil)

x. Patents 01 filed

xi. Technology Transfer NIL

xii. Research Publications **06**

xiii. No. of Books published with details NIL

i.	**Name**	Shridhar Ashok Kedar
ii.	**Date of Birth**	13/10/1983
iii.	**Unique id**	1-433866987
iv.	**Education Qualifications**	M.Tech., Pursuing Ph.D.(Mech.Engg.)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Industry– 01 Year, Teaching- 12 Years
vi.	**Area of Specialization**	Solar Energy, Energy Conservation,Thermal Engineering
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	1) Energy Audit & Management 2) Engineering Graphics I,II 3) Renewable Energy Sources 4) Engineering Thermodynamics 5) Fluid Mechanics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● **Master:** NIL ● **PhD:** NIL
ix.	**Projects Carried out**	**<u>BCUD</u>** has sanctioned a sponsored research project **(A.Y. 2016-18).** **Title:** "Experimental Investigation of Solar Desalination System Using Evacuated Tube Collector and Compound Parabolic Concentrator". **<u>Research Grants of Rs. 1,00,000/-</u>.**
x.	**Patents**	Title of Invention :- Solar Desalination System Ref.No./ Application No. 201921032482 date:- 10/08/2019 (Indian Patent) Patent No. TEMP/E-1/34303/2019-MUM Patent Published :- The patent office Journal, vol 07/2021, P. 7767, 2019 (Indian Patent)
xi.	**Technology Transfer**	Nil
xii.	**Research Publications**	i) "Energy Conservation Technology - Waste Heat Recovery", Presented , "National Conference", A G Awate College of Engineering Hadapsar, Date :- 5-7 March 2010 ii) "Lateral Transfer Device for Hospital Stretcher" Presented and Published ICMO-2013 New Delhi & Published Advance Material Research Journal ISSN 1022-6680 iii) " Effect of Hard Water on the performance of Solar Water Heater Tank", Presented, "International Conference

on Environment & Energy" JNTU Hyderabad Date :-15-17 Dec.2014

iv) "Thermal analysis of Solar Cooker with back reflection" Presented in International Conference on Advancements in Aeromechanical Materials for Manufacturing on 7-9 July 2016. MLR Institute of Technology Hyderabad.(Scopus Index)

v) S.A.Kedar, S.Madhusudan, A.K.Bewoor "Solar Desalination System Using Evacuated Tube Collector & Compound Parabolic Concentrator- Theoretical Approach" National Conference on Advancements in Electrical Engineering and Energy Sciences (AEEES-2016), NIT Hamidpur, May 24-25, 2016

vi) S.A.Kedar, K.Arul Raj, A.K.Bewoor "Experimental investigation of solar desalination system using evacuated tube collector. International Journal of Heat and Technology, Vol. 37, No. 2, pp. 527-532. https://doi.org/10.18280/ijht.370220 (Scopus,ESCI Index)

vii) S.A.Kedar, K.Arul Raj, A.K.Bewoor "Performance analysis of hybrid solar desalination system using ETC and CPC" SN Applied Sciences (2019) (1:965) https://doi.org/10.1007/s42452-019-0985-3 (Scopus,ESCI Index)

viii) S.A.Kedar, K.Arul Raj, A.K.Bewoor "Thermal analysis of solar desalination system using evacuated tube collector". Paper presented in International conference on sustainable engineering and technology (IConSET-2018) Bangalore. (Scopus Index)

ix) **S.A.Kedar**, G.Murali, A.K.Bewoor "Effective hybrid solar groundwater desalination in rural areas" International Transaction Journal of Engineering, Management and Applied Sciences and Technologies, vol.12,no.03, pp 1-10,2021. https://doi.org/10.14456/ITJEMAST.2021.55 (**ESCI and Web of Science Index**)

x) **S.A.Kedar**, G.Murali, A.K.Bewoor "Mathematical modeling and analysis of hybrid solar desalination system using evacuated tube collector and compound parabolic concentrator " Mathematical Modeling of Engineering Problems, Vol. 8, No.01, pp. 45-51, February -2021. https://doi.org/10.18280/mmep.080105 (**Scopus Index**)

xi) **S.A.Kedar**, A.K.Bewoor, G.Murali, Ravinder Kumar, Milad Sadeghzadeh, Alibek Issakhov "Effect of reflecting material on CPC to improve the performance of hybrid groundwater solar desalination system". International Journal of Photoenergy, Volume 2021, Article ID 6675236,13 pages. https://doi.org/10.1155/2021/6675236 (**SCI and Scopus Index**)

xiii.	**No. of Books published with details**	Nil

i.	**Name**	Amit P. Rajurkar
ii.	**Date of Birth**	06/03/1976
iii.	**Unique id**	1-433867181
iv.	**Education Qualifications**	ME (Heat and Power)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching- 19 years
vi.	**Area of Specialization**	Fluid Mechanics , Heat Transfer, Turbo machines
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Fluid Mechanics ● Turbomachines ● Basic Mechanical Engineering
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● **Master:** NIL ● **PhD:**NIL
ix.	**Projects Carried out**	NIL
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL
xiii.	**No. of Books published with details**	NIL

i.	**Name**	Avinash Sudam Shinde
ii.	**Date of Birth**	19 Sept.1982
iii.	**Unique id**	1-433867337
iv.	**Education Qualifications**	M.E. Mechanical (Design), pursuing Ph. D
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Industry – 2.5 Years, Teaching- 11 Years
vi.	**Area of Specialization**	CAD, FEA, Design, composite materials
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	i. CAD/CAM & Automation ii. Computer Aided Machine Drawing iii. Basic Mechanical Engineering iv. Engineering Graphics-I & II v. Advanced Mechanics of Materials
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences**	● Conference Papers: ● AWJM Performance Measurement of Sandwich Compoites, IISER, Pune ● Evaluation of Hybridization Effect on Mechanical Properties of Sisal/Glass Composites, KGC Global Conference. ● Micromechanical Modeling and Evaluation of PALF Composites Through RVE Method, Springer Nature Singapore Pte Ltd., Book Chapter.
	● **Master** ● **Ph.D.**	● **Master:** 01 ● **PhD:**NIL
ix.	**Projects Carried out**	NIL
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL
xiii.	**No. of Books published with details**	NIL

i.	**Name**	Nilesh Ramesh Kolhalkar
ii.	**Date of Birth**	03/03/1986
iii.	**Unique id**	1-1535944723
iv.	**Education Qualifications**	B.E: Mech, M.Tech:Mechatronics, Ph.D. Pursuing
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching: 9Years 3 Months, Industry: 01 Year
vi.	**Area of Specialization**	Mechatronics,Hydraulics and Pneumatics,Automation, Automobile Technology
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Engineering Graphics I & II. ● Basic Mechanical Engineering ● Hydraulics & Pneumatics ● Mechatronics ● Technical Skill Development ● Automation and Control Technology ● Automotive Mechatronics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● **Master: Nil** ● **PhD: Nil**
ix.	**Projects Carried out**	1) A Research Grant of Rs.3,00,00 /-(Rs.Three Lakhs only) has been sanctioned from I.Q.A.C of S.P.P.U under the (ASPIRE) **A**ssistance by **S**.P.P.U for **P**roject based **I**nnovative **Re**search under the Research Mentorship scheme for two years i.e.2019-2021with a Research Grant No: 18TEC000968 2) Guided 7 Project groups at UG Level till date.
x.	**Patents**	Published:01
xi.	**Technology Transfer**	Nil
xii.	**Research Publications**	**International Conference:01** 1) Nilesh R. Kolhalkar, V.L.Krishnan, "Use of Mechatronics and Robotics for technology enhanced agricultural task", ICAHD-2017 organized by Indian Institute of Technology Guwahati (IITG) from 8-9 September,2017. **International Journal : 02** 1) Nilesh R. Kolhalkar, V.L.Krishnan, " Mechatronics system for diagnosis and treatment of Major diseases in grape vineyards based on Image Processing", Materials Today:Proceedings,May 2019.

DOI:https//doi.org/10.1016/j.matpr.2019.05.407

2) Nilesh R. Kolhalkar,V.L.Krishnan, " Mechatronics system design for weed management and soil condition monitoring within the rows of vineyards', International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9, Issue-4,February2020.
DOI: 10.35940/ijitee.D2014.029420

xiii.	**No. of Books published with details**	Nil

i.	**Name**	Dr. Yashwant Shrirang Munde
ii.	**Date of Birth**	24/05/1985
iii.	**Unique id**	1-2183521224
iv.	**Education Qualifications**	PhD (Mechanical Engg) M.Tech.(Mech Engg - CAD/CAM & Auto BE (Mechanical Engg)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	**Teaching**: 11 Years 8 Months **Research**: 01 Year as *Research Assistant at FEAST Software Pvt. Ltd., incubated company with IIT Bombay, Mumbai* **Industry**: Nil
vi.	**Area of Specialization**	Natural Fiber Reinforced Composites (NFRC), Polymer matrix composite, Vibration damping and acoustic behaviour of NFRC, Finite Element Analysis
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate** **Diploma Level**	● CAD/CAM and Automation ● Mechanics of Composite Materials ● Robotics ● Geometric Modeling ● Machine drawing and computer graphics ● Engineering Graphics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	**Paper in International Journal: 14** [1] Anamol Sonawane, Abhijeet Deshpande, Satish Chinchanikar, **Yashwant Munde**," Dry sliding wear characteristics of carbon filled polytetrafluoroethylene (PTFE) composite against Aluminium 6061 alloy ", Materials Today: Proceedings, Feb 2021, https://doi.org/10.1016/j.matpr.2020.12.929 [2] Harshad Pingulkar, Ashok Mache, **Yashwant Munde**, I. Siva, "A comprehensive review on drop weight impact characteristics of bast natural fiber reinforced polymer composites", Materials Today: Proceedings, Feb 2021, https://doi.org/10.1016/j.matpr.2020.12.925 [3] Aanchna Sharma, **Yashwant Munde**, Vinod Kushvaha, "Representative volume element based micromechanical modelling of rod shaped glass filled epoxy composites", SN Applied Sciences, 3, 232, January 2021. https://doi.org/10.1007/s42452-021-04261-9 (ESCI, SCOPUS) [4] Harshad Pingulkar, Ashok Mache, **Yashwant Munde**, I. Siva, "Synergy of Interlaminar Glass Fiber Hybridization on Mechanical and Dynamic Characteristics of Jute and Flax Fabric Reinforced Epoxy Composites" Journal of Natural Fibers, December 2020. ***(SCI-IF 2.62)*** https://doi.org/10.1080/15440478.2020.1856280 [5] Jui J. Joglekar, **Y.S. Munde**, A.L. Jadhav, D.S. Bhutada, S. Radhakrishnan, M.B. Kulkarni, Studies on effective utilization of Citrus Maxima fibers based PVC composites, Materials Today: Proceedings, 2 December 2020, (SCOPUS) https://doi.org/10.1016/j.matpr.2020.10.648

[6] Kalusuraman, G., Siva, I., **Munde, Y**., Selvan, C. P., Kumar, S. A., & Amico, S. C, "Dynamic-mechanical properties as a function of luffa fibre content and adhesion in a polyester composite", Polymer Testing, Elsevier ***(SCI-IF 3.27)***, 3 April 2020, doi:10.1016/j.polymertesting.2020.106538

[7] T. Premkumar, I. Siva , **Yashwant Munde** S. Rajesh and Sandro C Amico, "Basalt Fiber Hybridization Effects on the Thermal Degradation Properties of Curauá Fiber Composites" Materials today: Proceeding, Elsevier, Available online 21 February 2020 (SCOPUS)

[8] Deepak Joel Johnson R, V Arumugaprabu, **Y S Munde**, "Constitutive models to predict the mechanical performance of sansevieria cylindrica reinforced vinyl ester composite" Materials Research Express 6 (9), 095310 July 2019 ***(SCIE-IF 1.151)*** (Citations 01)

[9] **Y. S. Munde**, R. B. Ingle, and I. Siva, "A Comprehensive review on the Vibration and Damping Characteristics of Vegetable Fiber Reinforced Composites," Journal of Reinforced Plastic and Composites, SAGE Publications, May 2019. ***(SCIE IF 1.471)***

[10] **Y. S. Munde**, R. B. Ingle, and I. Siva, "Effect of sisal fiber loading on physic-mechanical, morphological and thermal properties of extruded Polypropylene composites," Materials Research Express, IOP Science. Vol 06(8) 085307 pp.1-16, May 2019 ***(SCIE-IF 1.151)*** (Citations 04)

[11] **Y. S. Munde**, R. B. Ingle, and I. Siva, "Vibration damping and acoustic characteristics of sisal fiber–reinforced polypropylene composite," Noise Vib. Worldw., Vol 50(1) pp.13-21, November 2018. (SCOPUS)

[12] **Y. S. Munde**, R. B. Ingle, and I. Siva, "Investigation to appraise the vibration and damping characteristics of coir fiber reinforced polypropylene composites," Adv. Mater. Process. Technol., Vol 4(4) pp. 639-650, June 2018. (SCOPUS, ESCI) (Citations 02)

[13] R Ramprasath, S Jayabal, SK Sundaram, G Bharathiraja, **YS Munde**, "Investigation on Impact Behavior of Rice Husk Impregnated Coir Vinyl Ester Composites" Macromolecular Symposia 361 (1), March 2016 123-128 (SCOPUS) (Citations 03)

[14] **Y. S. Munde** and R. B. Ingle, "Theoretical Modeling and Experimental Verification of Mechanical Properties of Natural Fiber Reinforced Thermoplastics," Procedia Technol., 2015. (Web of Science) (Citations 09)

- **Paper in International Conferences: 11**

[1] Jui J. Joglekar, Y.S. Munde, A.L. Jadhav, D.S. Bhutada, S. Radhakrishnan, M.B. Kulkarni, Studies on effective utilization of Citrus Maxima fibers based PVC composites, in 2nd International Conference on Recent Advances In Materials And Manufacturing (ICRAMM) at Velalar College of Engineering Erode, Tamilnadu, India on 20-21 Nov 2020 (EMTP 6084)

[2] Harshad Pingulkar, Ashok Mache, Yashwant Munde, "A Comprehensive Review on Drop Weight Impact Characteristics of Bast Natural Fiber Reinforced Polymer

Composites" in 3rd International Conference on Frontiers in Automobile & Mechanical Engineering (FAME) at Satyabhama Institute of Science and Technology, Chennai on 07-09th August 2020.

[3] Anamol Sonawanea, Abhijeet Deshpande, Satish Chinchanikar, Yashwant Munde, "Dry sliding wear characteristics of carbon filled Polytetrafluoroethylene (PTFE) composite against Aluminium 6061 alloy", in 3rd International Conference on Frontiers in Automobile & Mechanical Engineering (FAME) at Satyabhama Institute of Science and Technology, Chennai on 07-09th August 2020.

[4] T.Premkumar, I.Siva, Yashwant Munde, S.Rajesh, Sandro C Amico, "Basalt fiber hybridization effects on the thermal degradation properties of curauá fiber composites" at Jaypee institute of Information Technology, Noida, India on 20th to 22nd Feb 2020 (Abstract No. P86)

[5] Yashwant S. Munde, Ravindra B. Ingle, I. Siva, Avinash S. Shinde "Micromechanical Modeling of Sisal/PLA Biodegradable Composite" International Conference on Polymer Science and Technology SPSI-MACRO at Indian Institute of Science Education and Research (IISER), and CSIR- NCL Pune on 19th to 22nd December 2018 (Abstract No. FPC 110)

[6] Avinash Shinde, I. Siva, Yashwant Munde "AWJM Performance Measurement of Sandwich Composites" International Conference on Polymer Science and Technology SPSI-MACRO 2018 at Indian Institute of Science Education and Research (IISER), and CSIR- NCL Pune on 19th to 22nd December 2018 (Abstract No. APMP 13)

[7] Yashwant S. Munde, Ravindra B. Ingle "Vibration Damping Characteristics of Coir Fiber Reinforced Polypropylene Composite" 20th International Conference on Advances in Materials & Processing Technologies (AMPT) at VIT University Chennai on 11th to 14th December 2017

[8] Yashwant S. Munde, Ravindra B. Ingle "Theoretical Modeling and Experimental Verification of Mechanical Properties of Natural Fiber Reinforced Thermoplastics" 8th International Conference Interdisciplinarity in Engineering 2014 at Tirgu- Mures Romania on 9-10 Oct 2014

[9] Yashwant S. Munde, Nisarg Joshi, Satish Dhole, Rushali Daga, Abhisheek Deahpande, K.D. Deodhar, A. P. Kulkarni "Analysis of multi-layered composite thin cylindrical tube" International conference on functional materials for defense, ICFMD-2012 at Defense Institute of Advanced Technology(DIAT), Pune, Maharashtra, India. 18th to 20th May 2012.

[10] Yashwant S. Munde, Nisarg Joshi, Satish Dhole, Rushali Daga, Abhisheek Deahpande, K.D. Deodhar, A. P. Kulkarni "Analysis of multi-layered hybrid composite cylindrical tube" International conference on functional materials for defense, ICFMD-2012 at Defense Institute of Advanced Technology(DIAT), Pune, Maharashtra, India. 18th to 20th May 2012

[11] Yashwant S. Munde, Prof. S. V. Sawlekar "Design and analysis of fiber reinforced composite laminates for optimum weight based on strength criteria" International conference on

advances in mechanical Engineering at SVNIT, Surat, Gujarat, India. 4 to 6th January 2010, PP 351-356.

- **Paper in National Conferences: 02**

[1] Yashwant S. Munde, Ravindra B. Ingle "Experimental Investigation of biocomposite reinforced with natural fibers" Regional Research Conference Innovation 2014, BCUD, University Of Pune. 2nd May 2014.

[2] Yashwant S. Munde, Ravindra B. Ingle "Experimental Investigation of biocomposite reinforced with natural fibers" Regional Research Conference Innovation 2015, BCUD, University Of Pune. 1st July 2015.

- **Master: 02**
- **PhD: NIL**

ix.	**Projects Carried out**	1. Received and utilized the grant of **Rs. 2.3 lakhs** as Co-PI for BCUD, Savitribai Phule Pune University research project for AY 2013-15. Title of the project is "Experimental Investigation of bio composite reinforced with natural fibers". 2. Coordinator of developing a Composite Material Laboratory at Cummins COEW and received AICTE MODROB grant of **Rs. 13.28 lakhs** in 2019-21. 3. UG Student's Projects guided: 09
x.	**Patents**	Nil
xi.	**Technology Transfer**	Nil
xii.	**Research Publications**	Journal -14, Books Chapter - 01 and Conferences- 13
xiii.	**No. of Books published with details**	Nil

i.	**Name**	Vahadne Mandar Ashokrao
ii.	**Date of Birth**	28/ 09/ 1988
iii.	**Unique id**	1-2482858885
iv.	**Education Qualifications**	M. E. (Design)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Teaching- 5.5 Years
vi.	**Area of Specialization**	Optimization**,** Design and Vibration
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Engg. Graphics-I,II. ● Basic Mechanical Engg. ● Theory of Machines - I , II ● Computer Oriented Numerical Methods ● Machine Drawing and Computer Graphics ● Strength of Material
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	● Paper presented on, 'Experimental Testing by Mechanical Drive 3D Turbula Shaker Mixer to Improve Homogeneity and Maintain Moisture ratio of Turmeric Powder and Sodium Sulphate Mixture, in Technospire SRES COE Kopargaon. ● Ravi Teja, Pathan FZ, **Mandar Vahadne**, "Optimization of Heat Transfer through Rectangular Duct" IRJET Volume: 02 Issue: 04 | July-2015, ● Paper Presented on "Heat transfer & flow through Rectangular duct" in International conference on recent advances in Mech. Engg. (ICRAME 2015) G.H. Raisoni college of Engg. Wagholi- 41227. ● Sunil G Dambhare, Sandeep S Kore, Firoz Z Pathan and **Mandar Vahadane** "Diesel engine performance and emission characteristic enhancement using TOPSIS" International Journal of Advanced Technology and Engineering Exploration, Vol 6(54), May-2019. **Master:** NIL **PhD:** NIL
ix.	**Projects Carried out**	OPTIMIZATION OF PERFORMANCE AND EMISSION PARAMETERS OF DIESEL ENGINE BY USING BIODIESEL BLENDS
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL

xiii.	**No. of Books published with details**	NIL

i.	**Name**	Mr. Vishwanath Ashok Mali
ii.	**Date of Birth**	17/09/1991
iii.	**Unique id**	1-4735244370
iv.	**Education Qualifications**	PhD* (Pursuing) M. Tech(Manufacturing) B.E.(Mech) Diploma(Mech)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Total = 4 Years 4 years
vi.	**Area of Specialization**	Manufacturing, Biomechanics
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Metrology & Quality Control ● Mechatronics ● Basic Mechanical Engineering ● Mechatronics ● Engineering Graphics ● Engineering Mechanics ● Manufacturing Processes ● Advanced Manufacturing Processes
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	International Conferences: 01 ● Master: NIL ● Ph. D.: NIL
ix.	**Projects Carried out**	● One Consultancy project done at Renishaw Metrology System
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL
xiii.	**No. of Books published with details**	

i.	**Name**	Ms. Himani Balachandran Kadam
ii.	**Date of Birth**	17/04/1979
iii.	**Unique id**	
iv.	**Education Qualifications**	M. Tech (Fluids and Thermal Engg), B.E.(Mech)
v.	**Work Experience:** ● **Teaching** ● **Research** ● **Industry** ● **Others**	Total = 14.8 Years (Industry 8.3 years; Teaching- 6.5 Years)
vi.	**Area of Specialization**	Fluids and Thermal Engineering
vii.	**Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level**	● Engineering Graphics ● Basic Mechanical Engineering ● Turbo Machines ● Fluid Mechanics ● Thermodynamics
Viii.	**Research guidance:** ● **No. of papers published in National/ International Journals/ Conferences** ● **Master** ● **Ph.D.**	International Journal:03 ● Master: NIL ● Ph. D.: NIL ● 1.Kadam, H. B., Saha, U. K., and Das, M. K., **"Stage-by-Stage Aerodynamic Design of Multistage of Axial Flow Compressors**", Presented in 2nd International & 29th National Conference on Fluid Mechanics & Fluid Power (INCFMFP-2002), I. I. T. Roorkee, Dec. 12-14, 2002. ● 2. Chaitanya M. Joshi, Shivraj K. Jadhav, Pravin D. Patil, Ms. Himani B. Kadam, **"Fabrication and Analysis of Vortex Tube Set Up"**, Published in IJLTET (International Journal of Latest Trends in Engineering and Technology) (Paper Id - IJLTET-2017-1505) ● 3. Himani B. Kadam, Sainath V.Shinde,"**Study of Conversion of Vibration Energy into Electric Energy"**, Published in JoAEST(Journal of Alternate Energy Sources and Technologies), September 2017.

ix.	**Projects Carried out**	NIL
x.	**Patents**	NIL
xi.	**Technology Transfer**	NIL
xii.	**Research Publications**	NIL
xiii.	**No. of Books published with details**	NIL