Curriculum Vitae



Academic Credentials

Class/	Specializati	Institution	University	Year	%/CGPA	Class
Degree	on					
Ph.D.	Mechanical Engineering (Heat Transfer Boiling)	Government Engineering college Aurangabad	Dr. B.A.M.Univ ersity,Auran gabad	2017		
M.E./ M. Tech.	Mechanical Design	Government Engineering college Aurangabad	Dr. B.A.M.Univ ersity,Auran gabad	2000	60.73	First class
B.E./B.Tech.	Mechanical Engineering	M.S.Bidve Engineering college Latur	Marathwada University, Aurangabad	1992	60.25	First class

M. Tech. Project: "Computer aided design of dies using AUTOLISP on window platform."

Ph. D. Research: "Enhancement of Critical Heat Flux in Pool Boiling using Nanofluids"

Key Research Areas: Nucleate Pool Boiling, Heat Transfer.

Experience

Sr.	Organization	Post	From To	No. of
No.				Years
01	Transfield Engineering Thane	Trainee engineer	14/06/92 to 13/06/1993	01
02	Government Polytechnic, Beed	Lecturer	23/09/1993 to 31/05/1994	01
03	V.V. P. Ltd., MIDC, Waluj, Aurangabad.	Trainee engineer	14/06/1994to 02/03/1995	0.8
04	Marathwada Institute of Technology, Aurangabad	Lecturer and Sr. Lecturer	02/03/95 to 30/06/2008	13
05	Maharashtra Institute of Technology, Aurangabad	Assistant Professor	1 st July 2008 to 30 Aug 2011	03
06	Maharashtra Institute of Technology, Aurangabad	Associate Professor	1stSeptember2011 to till date	08

List of Courses Taught/Teaching at UG level

01	Fluid Mechanics	05	Basic Mechanical Engineering
02	Fluid Mechanics and Machineries	06	Engineering Drawing
03	Heat Transfer	07	Alternative Energy Sources
04	Computational Techniques	08	Fluid Mechanics and Heat Transfer

List of Courses Taught/Teaching at PG level

1. Advance Heat Transfer2. Computational Fluid Dynamics

Additional Assignments/Duties

- Worked as a Chairman of the jury, National Level Technical Mega Event, Techno-Minds2K21, 17 and 18 June 2021 at MIT Aurangabad
- Worked as coordinator Direct Second Year Admissions 2018-19,19-20,20-21
- Worked as Convener Anti ragging Committee 2016-17-2017-18,2018-19.

- Worked as Central coordinator Practical Oral examination 2017-18,2018-19, 19-20, 20-21
- Member of flying squad Dr. B. A. M. University Aurangabad for May/June 2017 examinations
- Worked as Chief Superintendent Dr. B. A. M. University Examination May-June 2018
- Worked as Director for CAS, M/J 2011, Examination, Dr. B. A. M. University Aurangabad.
- Worked as Joint Director for CAS, M/J 2010, Examination, Dr. B. A. M. University Aurangabad.
- Worked as a officer CAS Engineering examination May/June 2002 at Dr. B.A.M.U. Aurangabad.
- Worked as a Asst. Director CAS Engineering examination May/June.
 2003 at Dr. B.A.M.U. Aurangabad
- Worked as Institute's Coordinator NBA 2006-07
- Worked as Institute Class test coordinator for the Year 2005-06
- Worked as Departmental Timetable coordinator for the Year 2003-04
- Worked as Coordinator for IMTEX VISIT at New Delhi the Year 2000-01
- Worked as Coordinator for various Industrial visits and the Educational Tours 2000 2001

Membership of Professional Bodies

- 1. LMISTE 41078, Indian Society for Technical Education
- 2. MIE M-1561523, Institution of Engineers
- 3. Quarterly Franklin Membership (Membership ID#IX59035), London journal press
- 4. ISHARE, Membership No: 59661 for year 20-21

Research Projects/Projects Guided

- 01 Enhancement of critical heat flux using different nanofluids
- 02 Experimental investigation of forced convective heat transfer coefficient and pressure drop in nanofluids in a double pipe heat exchangers under turbulent flow
- 03 Experimental Analysis of Valve and Valve Seat Wear in Gas Fueled Engine
- 04 Experimental investigation of heat transfer enhancement in shell and helical coiled tube heat exchanger using SiO2/ water nanofluids

- 05 Heat Transfer Enhancement with Alumina Nanofluids and Twisted Tapes in Shell and Tube Heat Exchanger
- 06 Optimization of GMAW Process Parameters to Improve the Length of Penetration in EN 10025 S 235 Grades.
- 07 Optimization of GMAW Process Parameters to Improve the Penetration in E250 and E350 Materials
- 08 Experimental Investigations on Forced Convective Heat Transfer and Pressure Drop of MgO/water Nanofluids under Turbulent Flow
- 09. Comparative performance analysis of R600a and R436a as an alternative of R134a refrigerant in a domestic refrigerator
- 10. Performance analysis of air water heater by using HFC refrigerants

Computer/Software Proficiency

1. M S office (MS Word, MS Power point, Excel)

2. MSCIT Certification

Seminar/Workshop/Industrial Training/STTP//FDP/1.EP/Conference Attended

- 01 Attended two weeks AICTE ISTE STTP on **Intelligent machines** at REC Warangal (AP) 31.12.2001 to 12.01.2002.
- 02 Attended One day workshop on CFD at IIT Mumbai. 14.02.2004.
- 03 Attended two day work shop on " **Computational Fluid Dynamics**" at SGM College of engineering, Shegaon 30,31 March 2009
- O4 Attended two weeks AICTE ISTE STTP on Engineering Optimization Techniques and its application in research" (EOTAR2012) FROM 2nd Jan 12 Jan 2012.
- O5 Attended one-week ISTE STTP at Government Engineering College Aurangabad on Energy Conservation Technologies from 5th January 2012 to 12th January 2012
- AICTE approved four week faculty development programme (FDP) on Use of ICT
 in Education for Online and Blended Learning'' conducted by I I T Mumbai
 and Sponsored by MHRD, New Delhi from 2nd May 2016n to 10th July 2016

- 07 successfully completed Faculty Awareness Program on Outcome Based Education and NBA Accreditation Organized by "Internal Quality Assurance Cell" of Maharashtra Institute of Technology, Aurangabad on 14-5-2020.
- 08 Attended webinar on, Development and use of rubric for effective assessment organized by National Institute of technical teachers and research Bhopal, 28th July 2020
- 09 Two days educational summit on outcome-based education (OBE) and National assessment and accreditation council NAAC Organized by mastersoft India and IQAC MIT Aurangabad, 14 and 15 May 2021
- 10 Attended One Day Online Workshop on "OBE Concepts & Implementation and Digital Preparedness for NBA" organized by Internal Quality Assurance Cell (IQAC), Maharashtra Institute of Technology, Aurangabad on 29th May 2021.
- 11 Attended one-week STTP on "**Experimental Methods in Engineering**'5th July to 9th July2021, Sponsored by TEQIP, Government Engineering College Karad.

Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference organized.

- Organized three days National level conference on "Nanotechnology and Nano materials On 15Th to 17th September 2013 at MIT (T), Aurangabad
- Organised two days online workshop on Energy Efficient Buildings on 17 and 18th July
 2020 at MIT Aurangabad (Online)

Invited talks delivered

 Invited talk on "Heat Transfer enhancement using Nanofluids" in FDP on Heating, Ventilation, Air Conditioning and Refrigeration (HVAC&R) on 30th and 31st January 2018 at Tatyasaheb Kore Institute of Engineering &Technology (TKIET) Warnanagar and Shivaji University Kolhapur

2. Invited talk on "Experience sharing on Active Learning 'At one week Refresher course on "**Use of ICT for effective Teaching and Learning**" on 12th January 2019, MIT Aurangabad,

List of Research Publications

Papers in International Journal

- "Review of the influence of nanoparticles on thermal conductivity, nucleate pool boiling and critical heat flux" International journal of Heat Mass Transfer vol 51 issue 3, pp381-398., DOI 10.1007/s00231-014-1412-3 (Springer) impact factor 0.924 (2014)
- 2 Experimental Investigation of Nucleate Pool Boiling characteristics of high Concentrated Alumina/Water Nanofluids" International journal of Heat Mass Transfer (Springer) impact factor 1.224 accepted on 25 September 2017 https://doi.org/10.1007/s00231-017-2253-7
- 3 "Determination Of Critical Heat Flux In Pool Boiling Using ZnO Nanofluids" International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 2 Issue 7, July – 2013
- 4 Preparation and characterization of copper oxide nanoparticles and determination of enhancement in critical heat flux" Scientific Thermal science, International journal of heat and mass transfer. THERMAL SCIENCE: Year 2017, Vol. 21, No1A, pp. 233-242 Impact factor 1.18 *DOI:10.2298/TSCI140619026K*
- 5 Characterization and investigation of heat transfer enhancement in pool boiling with water-ZnO nano-fluid'' THERMAL SCIENCE: Year 2017, Vol. 21, No05,pp. 2039-2047 Impact factor 1.18 *Doi10.2298/TSCI150516200K*
- Experimental Analysis of Valve and Valve Seats Wear in Gases (CNG) Fuelled Engine"
 IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p ISSN: 2320-334X, Volume 11, Issue 4 Ver. I (Jul- Aug. 2014), PP 56-62
- 7 Optimization of GMAW Process Parameters to Improve the Length of Penetration in EN10025 S 235 Grade'' Journal of Welding and Joining. Vol 35No.1 (2017)pp74-78 https//doi.org/10.5781/jwj2017.35.1.74
- 8 Review of enhancement in heat transfer rate using nanofluids of helically coiled tube Heat exchanger'' International Journal of Latest Trends in Engineering and Technology Vol.(8)Issue(1),pp.385-396,e-ISSN:2278-621X DOI:http://dx.doi.org/10.21172/1.81.050
- 9 Heat Transfer Enhancement with Al2O3 Nanofluid in Shell and Tube Heat Exchanger using Twisted Tapes: A Review
 IJSRD International Journal for Scientific Research & Development Vol. 5, Issue 08, 2017 | ISSN (online): 2321-0613

Review of forced convective heat transfer and pressure drop nanofluids under turbulent flow International Journal of Latest Trends in Engineering and Technology (IJLTET)
 IJLTET Journal, Volume 16 Issue 3 May, 2020

Books/ Book Chapter

- 01 Performance analysis of air water heater by using HFC refrigerants' 'MECHANICAL ENGINEERING FOR SUSTAINABLE DEVELOPMENT State-of-the-Art Research Apple academic Press, Waretown USA
- 02 Comparative performance analysis of R600a and R436a as an alternative of R134a refrigerant in a domestic refrigerator International Conference on Mechanical, Materials and Renewable Energy IOP Conf. Series: Materials Science and Engineering **377** (2018) 012047 doi:10.1088/1757-899X/377/1/012047

Papers in National /International Conference Proceedings

 A review on performance of Refrigerant Mixtures using Vapour Compression refrigeration system" 4TH National Conference on Innovations in Mechanical Engineering (NCIME 16), Madanapalle Institute of Technology and Science Chittor (AP)
 Performance analysis of air water heater by using HFC refrigerants' "Proceedings of the 1st International and 18th ISME Conference ISME 18 February 23rd – 25th, 2017, NIT Warangal, Warangal ISME-TE-03

Start Date	End Date	Duration	Course Name	Marks	Performance
		(in Weeks)		(Out of 100)	
Feb 2020	Mar2020	Four	Learn Moodle		
			3.8 Basics, by		
			Moodle HQ.		
Jan 2020	Apr2020	Twelve	NBA		
			Accreditation	95	
			and Teaching –	75	
			Learning in		

			Engineering(NA		
			TE)		
Feb 2019	Mar	Four	Teaching and		
	2019		Learning in	66.08	Elite
			Engineering		
July 2019	Sep 2019	Eight	TALE-2 Course		
			Design and		
			instruction of	67.33	Elite
			Engineering		
			Course		
July 2017	Aug	Four	Outcome based		
	2017		Pedagogic		
			Principles for	60.00	Elite
			effective		
			Teaching		

Awards, Achievements and Recognition

1. Recognised Ph.D guide and P.G. Teacher Dr. B. A. M. University, Aurangabad

2. Quarterly Franklin Membership (Membership ID#IX59035), London journal press

Date: 15/07/2021 Place: Aurangabad

Dr. J. M. Kshirsagar Associate Professor MED, MIT, Aurangabad