

Curriculum Vitae

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Date of Birth: 10th July,1978



Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGP A	Class
Ph.D.	Mechanical	Maharashtra Institute of Technology Aurangabad	Dr.B.A.M. University, Aurangabad	-	Pursuing	Pursuing
M.E./ M. Tech.	Manufacturing Engineering	Marathwada Institute of Technology, Aurangabad	Dr.B.A.M. University , Aurangabad	2015	62.75	First Class
B.E./B.Tech.	Mechanical	S.T.B. College of Engg, Tuljapur	Dr.B.A.M. University , Aurangabad	1999	67.60	Distinction

M. E. Project: Experimental Study on The Effects of Different Grinding Fluids in Cylindrical Grinding of Inconel 718

Ph. D. Research: Pursuing

Key Research Areas:

- Two phase flow
- E-vehicles
- Mini, micro, nano channels
- CFD
- ICT in Education

Experience

Sr. No.	Organization	Post	From	To	No. of Years
01	Maharashtra Institute of Technology, Aurangabad	Assistant Professor	01/07/2008	till date	13.1
02	Marathwada Institute of Technology Polytechnic, Aurangabad	Lecturer	06/08/2007	30/06/2008	0.84
03	Pembril Engineering Private Limited, Aurangabad	Maintenance Engineer	23/10/1999	to 22/10/2000	01

List of Courses Taught/Teaching at UG level

- Heat Transfer (6 times)
- Applied Thermodynamics (2 time)
- Engineering Thermodynamics (3 times)
- Automatic Control Systems (6 times)
- Hydraulic Machines and Heat Transfer (4 times)
- Fluid Mechanics (4 times)
- Fluid Mechanics and Machinery (3 times)
- Basics of Mechanical Engineering (8 times)

List of Courses Taught/Teaching at PG level

- Refrigeration and cryogenics systems (1 time)

Additional Assignments/Duties

- Working as lab in-charge of ‘**Heat Transfer Lab**’ from January 2015 till date.
- Worked as **faculty advisor** for **MIT ISHRAE Students’ Chapter** for AY 2020-2021.
- Worked as **Deputy Chief Superintendent** for **NEET-2020** examination.
- Worked as **M. Tech Admission committee member** for AY 2019-2020.
- Working as **NBA Criterion IV** Departmental Coordinator.

- Working as **NAAC Criterion II** Departmental Coordinator.
- Worked as Kalavihangam 2019 Day events committee member.
- Worked as class teacher for TY B division in part I and II of academic year 2020-2021
- Worked as class teacher for first year A division in part II of academic year 2018-2019.
- Worked as syllabus setter for the subject of HVAC and HT.
- Worked as departmental coordinator of syllabus revision for Final Year B. Tech Mechanical Engineering w.e.f 2019-2020.
- Worked as departmental coordinator of syllabus revision for Third Year Mechanical Engineering w.e.f 2018-2019.
- Worked as member of examination control cell for 2015-16 and 2016-17.
- Working as departmental result analysis coordinator.
- Worked as **Chief Superintendent** of Examination conducted by Dr.B.A.M. University in May/June 2017.
- Departmental coordinator for term work and class test marks online submission on Dr.B.A.M. U website for Nov/Dec 2016 examination.
- Worked as coordinator of mechanical engineering department for bus facility for students and staff.
- Worked as **Chief Superintendent** of Examination conducted by Dr.B.A.M. University in May/June 2016.
- Worked as Training and placement coordinator of Mechanical Engineering Department from 20/1/2015 to July 2015.
- Worked as Departmental Class Test coordinator from 20/7/2013 to 20/1/2015.
- Worked as a Central Member of Training & Placement Cell of Maharashtra Institute of Technology, Aurangabad from 1/12/2008 to 20/7/2013
- Worked as a Departmental In-Plant Training Coordinator from 1/12/2008 to 20/7/2013
- Worked as **Co-convener of Techno-millennium-2008**.
- Worked as Training and Placement officer of MIT Polytechnic, Aurangabad from August 2007 to June 2008.

Membership of Professional Bodies

- Life member of INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) [LM 108805].
- Senior Member of Indian Institute of Industrial Engineering [SMIIE 10528 (23)].
- Member of International Association of Engineers [160598].

Research Projects/Projects Guided

M. E. Project: Experimental Study on The Effects of Different Grinding Fluids in Cylindrical Grinding of Inconel 718.

Computer/Software Proficiency /LMS

- MS Office (MS Excel, MS Word, MS Power point)
- LMS: MOOC

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference Attended

- Successfully completed and received passing grade (81%) in **“ECObuild3x: Comfort and Health in Buildings”** a course of study offered by **DelftX**, an online learning initiative by **Delft University of Technology, Delft, Netherlands** through edX platform from **13/04/2021 to 30/05/2021**.
- Successfully completed 5-day online **FDP** on the theme **“Inculcating Universal Human Values in Technical Education”** organized by **AICTE** from **08/02/2021 to 12/02/2021**.
- Successfully participated in **accreditation webinar “W6-Development and use of rubrics for effective assessment”** organised by **NITTTR, Bhopal** on **July 28, 2020**.
- Successfully participated in **Five Days Technical Symposium On ‘Advances in Materials and Manufacturing Engineering’** organized by Department of Mechanical Engineering and Basic Sciences and Humanities, G.S. Mandal’s Maharashtra Institute of Technology, Aurangabad during **30th June to 4th July 2020**.
- Successfully participated in **Two week Faculty Development Programme On ‘Effective use of ICT tools in online teaching’** organized by IQAC and Department of Electronics and Telecommunication Engineering, G.S. Mandal’s Maharashtra Institute of Technology, Aurangabad in association with ‘Department of Pharmacy, Government Polytechnic, Jalgaon’ during **22nd June to 4th July 2020**.
- Successfully completed **One-week online Faculty Development Program on “Product Design & Novelty”** from **6th to 10th June, 2020** organized by Department of Mechanical Engineering, Dr Vithalrao Vikhe Patil College of Engineering Ahmednagar, Maharashtra and The Institution of Engineers (India) Ahmednagar local Centre.
- Successfully participated in **One-day webinar on “Kick start your Research work”** hosted by Department of Computer Science & Engineering, **JGI, Bengluru** on **May 30, 2020**.
- Successfully participated in two-day **Webinar on “Application of Statistical tools and Energy Engineering” on 20th and 21st May 2020** organised by Department of Mechanical Engineering Shri. L. R. Tiwari COE, Thane, Maharashtra.
- Successfully completed 4-week course on **“Learn Moodle 3.8 Basics”** run by Moodle HQ in February 2020.
- Participated and presented paper entitled **“Experimental investigations on two-phase pressure drop in small diameter at horizontal orientation”**, in the 25th National and 3rd International ISHMT-ASTFE, Heat and Mass Transfer Conference (**IHMTC-2019**), **December 28-31, 2019**, IIT Roorkee, Roorkee, India.

- Successfully completed the **NPTEL** online certification course in "**Course Design and Instruction of Engineering Course (TALE 2)**" conducted by **Indian Institute of Sciences, Bangalore** (Funded by Ministry of HRD, Govt. of India) from **July 2019 to September 2019** (4-week course).
- Successfully completed the **NPTEL** online certification course in "**Computational Fluid Dynamics (CFD)**" conducted by **Indian Institute of Technology, Madras** (Funded by Ministry of HRD, Govt. of India) from **January 2019 to April 2019** (12-week course).
- Successfully completed the **NPTEL** online certification course in "**Teaching and Learning in Engineering (TALE)**" conducted by **Indian Institute of Sciences, Bangalore** (Funded by Ministry of HRD, Govt. of India) from February 2019 to March 2019 (4-week course).
- Successfully completed the **NPTEL** online certification course in "**Two phase flow and heat transfer**" conducted by **Indian Institute of Technology, Roorkee** (Funded by Ministry of HRD, Govt. of India) from February 2018 to March 2018 (4-week course).
- Participated in Two days' workshop on '**Outcome based education**' conducted by IQAC of MIT, Aurangabad from 4/12/17 to 5/12/17.
- Participated in **one-week STTP** sponsored by AICTE under TQIP on '**Advances in Material Science and Engineering**' (AMSE-2016) organized by Sardar Vallabhbhai Patel National Institute of Technology, Surat during 10/10/2016 to 14/10/2016.
- Participated in **one-week STTP** sponsored by AICTE under TQIP on '**Mathematical Modelling, Optimization, Fractional Calculus and their computations in Engineering Science**' (MMOFCCES-2016) organized by Sardar Vallabhbhai Patel National Institute of Technology, Surat during 21/6/2016 to 25/06/2016.
- Participated in one-week STTP sponsored by AICTE under QIP on '**Fluid Flow Behaviour Using Computational Methods**', organized by Mechanical Engineering Department of VJTI, Mumbai, held from,28/12/2015 to 1/1/2016.
- Successfully completed the **NPTEL** online certification course in "**Design and optimization of energy systems**" conducted by **Indian Institute of Technology, Madras** (Funded by Ministry of HRD, Govt. of India) from February 2015 to May 2015 (40 Hrs course).
- Participated in a **Two-week ISTE STTP** on '**Effective Mentoring of Online Students in Thermodynamics-WME209x**' conducted by **IIT Bombay** from 5th February 2015 to 29th April 2015 held under National Mission on Education through ICT (MHRD).
- Participated in workshop conducted by **CMIA Energy Cell** on '**Workshop on compressed air**' on 28/9/2014.
- **Two-week ISTE workshop** on '**Fluid Mechanics**' conducted by **IIT Kharagpur** from 20th to 30th May 2014 held under National Mission on Education through ICT (MHRD) at Marathwada Institute of Technology, Aurangabad.
- Two day **Continuing Education Programme (CEP)** course on '**Research Methodology**' at MIT, Aurangabad between 9th and 10th August 2013.

- **Two-week ISTE workshop on ‘Engineering Thermodynamics’** conducted by **IIT Mumbai** from 11th December to 21st December 2012 held under National Mission on Education through ICT (MHRD) at Marathwada Institute of Technology, Aurangabad.
- Two days workshop on **‘Component Failures: Causes and Remedies’** conducted by **Indian Institute of Metals Pune Chapter** at Marathwada Institute of Technology, Aurangabad on 23rd and 24th April 2010.
- Industry Education Partnership Training Programme organized by DTE, Mumbai and MSBTE Mumbai at **“Endurance Technologies, Aurangabad”** from 27th to 29th August 2007.
- One day Seminar at **Government College of Engineering Aurangabad** on **‘National Mission on Education’**.

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

- Worked as **Co-convener of Techno-millennium-2008**
- Worked as organizing committee member for Two-day national level workshop on **“Energy Efficient Buildings”** organized by **ISHRAE MIT Students’ chapter** and **ISHRAE Aurangabad subchapter** from **17/07/2020 to 18/07/2020**.

List of Research Publications

Papers in National/ International Journal

- A paper entitled **“Experimental investigations on two-phase pressure drop in small diameter at horizontal orientation”**, in Proceedings of the 25th National and 3rd International ISHMT-ASTFE, Heat and Mass Transfer Conference (**IHMTC-2019**), published by **Begell House Inc** in May 2021.
- A paper entitled **“Experimental study on two-phase flow pressure drop using ferrofluid (fe3o4) and magnetic field in small diameter tube bends”**, published in **International Journal of Engineering Applied Sciences and Technology, 2018**, Vol. 3, Issue 5, ISSN No. 2455-2143, Pages 18-32.
- A paper entitled **“Effect of magnetic field on pressure drop using two-phase flow in small diameter tubes at horizontal orientation”**, published in **International Journal of Engineering Applied Sciences and Technology, 2018**, Vol. 3, Issue 5, ISSN No. 2455-2143, Pages 38-45.
- A paper entitled, **“Experimental study on the effects of different grinding fluids in cylindrical grinding of Inconel 718”**, published in **International Journal of Applied Engineering Research**, ISSN 0973-4562 Vol. 10 No.54 (2015).

Papers in National /International Conference Proceedings

- The Paper **“Experimental investigations on two-phase pressure drop in small diameter at horizontal orientation”**, **presented** by Mr.S.B. Charthankar, at the 25th National and

3rd International ISHMT-ASTFE, Heat and Mass Transfer Conference (**IHMTC-2019**), December 28-31, 2019, IIT Roorkee, India.

- Trishul P Kulkarni, Shantanu B Charthankar, Dr Bhagwan G Toksha, Dr Arun T. Autee “Application of coconut coir for eco-friendly insulated sandwich panel” in **4th International Conference (Online) On “Recent Trends Research in Engineering & Science (ICRTRES-20)”** organized by Padmshri Dr. V. B. Kolte College of Engineering, Malkapur.


NPTEL Certification

Start Date	End Date	Duration (in Weeks)	Course Name	Marks (Out of 100)	Performance
29 th July 2019	20 th September 2019	4	Course Design and Instruction of Engineering Course (TALE 2)	77	Elite Silver
25 th February 2019	22 nd March 2019	4	Teaching and Learning in Engineering (TALE)	73	Elite
January 2019	April 2019	12	Computational Fluid Dynamics (CFD)	63	Elite
February 2019	March 2019	4	Two phase flow and heat transfer	44	Successfully Completed

Awards, Achievements and Recognition

- Selected as **NPTEL-translator** from May 2020 for translation of **NPTEL Mechanical Engineering Lectures** into **MARATHI** language.
- Successfully completed **GIZ-MASSIA project competition 2018-2019** for ‘**Reduction in MIG Welding Spatter**’ at ‘Accrete Electromech Pvt. Limited, MIDC Waluj, Aurangabad. Received fund of **Rs.10,000/-** from **Tata Technologies** for manufacturing the prototype.

- Received the special prize in **GIZ-MASSIA project competition 2017-2018** for **‘Discharge Coil Manufacturing Process Automation’** at ‘Elegant Coating Pvt. Limited, MIDC Waluj, Aurangabad.



Date: 23-07-2021

Place: Aurangabad.