

Curriculum Vitae

Name: Dr.Arun Tukaram Autee

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Date of Birth: 01 January 1968

Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Thermal Engineering	NIT, Warangal	NIT, Warangal	2014	NA	NA
M.E.	Mechanical Design	Govt. Engg.College, A'bad	Dr.B.A.M. U. Aurangabad	2005	63.43 %	First Division
B.E.	Mechanical Design	M.S.Bidve,C OE, Latur	Marathwada Universty Aurangabad	1992	61.26%	First Division

M. Tech. Project: “Effect of Cryogenic Treatment on High Carbon High Chromium Steel Wear Rate.”

Ph. D. Research: “Experimental Investigations on Pressure Drop for adiabatic Air-Water Two-Phase Flow in Small- Diameter Tubes and Bends”

Key Research Areas:

- Multi-Phase Flow
- Refrigeration and Airconditioning
- Cryogenics treatment

Experience

Sr. No.	Organization	Post	From	To	No. of Years
01	Maharashtra Institute of Technology, Aurangabad.	Associate Professor	14/07/2016 to	till date	9.9
02	Marathwada Institute of Technology, Aurangabad.	Associate Professor	01/10/2011 to	13/07/2016	4.4
03	Marathwada Institute of Technology, Aurangabad.	Assistant Professor	01/07/2008 to	30/09/2011	3.4
04	Marathwada Institute of Technology, Aurangabad.	Sr. Lecturer	01/07/2007 to	30/06/2008	0.11
05	Marathwada Institute of Technology, Aurangabad.	Lecturer	01/09/1997 to	31/12/2006	8.6
06	Marathwada Institute of Technology, Aurangabad.	Lecturer	31/07/1995 to	31/08/1997	2.1
07	Associates, MIDC, Chikhalthana, Aurangabad	Assistant Engineer	6/03/1994 to	10/06/1995	1.3
08	Associates, MIDC, Chikhalthana, Aurangabad	Trainee Engineer	05/03/1993 to	05/03/1994	1.0

List of Courses Taught/Teaching at UG level

- Refrigeration and Cryogenics
- Refrigeration and Airconditioning
- Turbomachines
- Applied Thermodynamics
- Engineering Thermodynamics
- Hydraulics and Pneumatics
- Machine Design
- Theory of Machine
- Basic Mechanical Engineering
- Engineering Drawing
- Engineering Graphics

List of Courses Taught/Teaching at PG level

- Refrigeration and Cryogenics
- Turbomachines
- Advance Thermodynamics

Additional Assignments/Duties at Maharashtra Institute of Technology, Aurangabad.

- Working as a coordinator of ISHRAE student sub chapter
- Working as a coordinator of student council since from 2019 till date
- Working as a coordinator for B.Voc. [Refrigeration and Airconditioning] course.
- Working as a module coordinator (Heat and Power) at departmental level
- Working as a laboratory incharge of Refrigeration and Airconditioning
- Working as member for curriculum development committee
- Worked as Chief Superintendent of Dr. B.A.M.U.A'bad Examination Nov/Dec 2019
- Worked as Chief Superintendent of NEET-2019 examination.
- Worked as departmental NAAC and NBA coordinator
- Worked as Examination Control Cell Incharge 2016-18
- Worked as central coordinator for direct second year admission committee for academic year 2016-17

Additional Assignments/Duties at Marathwada Institute of Technology, Aurangabad

- Worked as Head of Mechanical Engineering Department (2015-216)
- Worked as INSPIRE coordinator (2014-15, 2015-16)
- Worked as coordinator for syllabus committee B.Sc. (Refrigeration and air-conditioning) (2015)
- Worked as Chairman for discipline committee of Kalyvihangaum (2015 - 2016)
- Worked as M.E. Central coordinator (2012-2015)
- Worked as chief coordinator for examinations such as GATE, AIEEE and Dr. B.A.M.U. Aurangabad
- Worked as Departmental M.E. Coordinator (2010- 2015)
- Worked as ARC-DTE coordinator (2014-15)
- Worked as NBA central coordinator (2010- 2012)

Membership of Professional Bodies

ISTE (LM 41079)

ISHRAE (56324)

Research Projects/Projects Guided

Name of Candidate	Title of Dissertation topic	Year
Mr. A.S.Kousal	Experimental Analysis of Adiabatic Air-Water Two-Phase Flow Through Sudden Area Change in Small Diameter Tubes	2014
Mr. S.V.Giri	Experimental Analysis of Adiabatic Air-Water Two-Phase Flow Pressure Drop in Small Diameter Bends	2014
Mr. S.M. Abdulla	Experimental Analysis of Heat Transfer From Square Perforated Fins in Staggered Arrangement	2015
Mr. P.O.Sharma	Investigation on Heat Recovery From The Condenser of An Air conditioner As A Heat Pump for Water Heating	2015
Mr. R.R.Kolekar	Experimental Investigation of Heat Transfer by Natural Convection on Aluminium Casted V- Shaped Fin Array Without Cut and Different Cuts at Nose	2015
Mr. G.V. Amratwar	Experimental Analysis of Isobutene (R600a), in replacement of HFC (R134a) in domestic Refrigerator	2015
Mr. V.M.Swami	Experimental Investigation of Solar Fish Dryer Using Phase Change Material	2016
Mr. S.U.Deshpande	Investigations of Effect on Average Convective Heat Transfer Coefficient by Nanofluid Jet Impingement on Circular Disc	2016
Ms. B.B. Shikhare	Experimental Study of Pressure Drop for Two-Phase Flow Through Helical Tubes in Vertical Orientation	2016
Mr. P.S.Saljoshi	Experimental Investigation of Two-Phase Flow Patterns in Minichannels for Horizontal Orientation	2016
Mr. C.B. Patil	An Experimental Investigation of Combustion and Emission Analysis of Non Woody Biomass and Coal Mixed Biomass Pellets	2016
Ms. P.V. Achari	Performance Analysis of CI Engine Fueled with Duel Blends of Biodisel	2017
Mr.Nihil Sisodiya	Effect of Magnetic Field and Nanoparticles on Two phase pressure drop in circular diameter tubes at horizontal orientation.	2018

Computer/Software Proficiency

M.S. office

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

- Attended a one workshop on “Revised Syllabus of Elements of Mechanical Engineering and Engineering Graphics” at MIT, Aurangabad on 09/08/2002
- Attended National Conference on “Emerging Trends in Mechatronics” at MIT, Aurangabad.(23/07/2004to 24/-7/2004)
- Attended a short term training program on “Modeling and Simulation of Engineering Systems in Multi Energy Domains: A Bond Graph Approach” at Govt.College of Engineering, Aurangabad..(9/1/2006 to 15/1/2006)
- Attended a one day Workshop on “Nano technology” at JNEC, Aurangabad (3/01/2007)
- Participated in three day National Workshop on “Go Green Generation Fuels” organized by Department of Mechanical Engineering, National Institute of Technology, Warangal.(12th -14th December 2013).
- Attended workshop/short course on ‘Renewable Energy and Sustainable Development’ at IIT, Varanasi. January 18-22, 2016
- Attended two day national workshop as resource person for “Recent Trends in Refrigeration and Airconditioning Applications’ at College of Engineering Osmanabad on 18th July 2017.
- Attended Two days workshop on ”Fluid Mechanics and LASER based flow diagnostics held from 30/10/208 to 31/10/2018 at COE, Pune.
- Attended one day interactive session“**How to prepare for NBA**” by Dr. Vitthal Shrirang Bandal,
- Principal, Government Polytechnic, Pune Organized by “Internal Quality Assurance Cell” of Maharashtra Institute of Technology, Aurangabad on 9th May 2020.
- Attended online one week online Faculty Development Program on”Outcome Based Education: A Step Towards Excellence” from 11-15 May 2020 under Margdarshan Scheme of AICTE, New Delhi.
- Attended two weeks online FDP (MOOC) “Effective Use of ICT Teaching” from 22nd June to 04th July 2020 organized by IQAC & Department of Electronics and Telecommunication Department” of G.S. Mandal’s Maharashtra Institute of Technology, Aurangabad.
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Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference organized

Organized two INSPIRE Internship Science Camp for Inspired Research) during 06th – 10th January 2015 (100 students) and 1st -5th March 2016 (150 students)

Organized two day work shop on “ Energy Efficient Buildings” in association with ISHRAE student sub-chapter Aurangabad and Anucool Engineers, Kolhapur, 17th – 18th July 2020.

Invited talks delivered

Projects, Research Grants and Consultancy

INSPIRE Internship Science Camp [Innovation in Science for Inspired Research] Sponsored by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India (Fund received Rs 16.75 lacks)

Intellectual Property Rights

List of Research Publications

Papers in National/ International Journal

- A.T.Autee, S.Srinivasa Rao, Ravikumar Puli, and Ramakant Shrivastava.,(2012). Two-Phase Pressure Drop Calculations in Small Diameter Inclined Tubes, International Journal of Engineering and Technology, 1(3), pp.168-181.
- A.T.Autee, S.Srinivasa Rao, Ravikumar Puli, and Ramakant Shrivastava., (2014). Experimental Study On Two-Phase Pressure Drop of Air-Water in Small-Diameter Tubes at Horizontal Orientation, Thermal Science, International Scientific Journal, 18(2), pp. 521-532.
- A.T.Autee, S.Srinivasa Rao, Ravikumar Puli, and Ramakant Shrivastava., (2015). An Experimental Study On Two-Phase Pressure Drop in Small Diameter Horizontal, Downward Inclined and Vertical Tubes, Thermal Science, International Scientific Journal, 19 (5), pp. 1791-1804
- Hanumant Jagdale, Subhash Lahane and A.T.Autee., (2016). Heat Transfer Enhancement in Heat Exchanger Using Tangential Injector Type Swirl Generator, Novateur Publication's International Journal of Innovation in Engineering, Research and Technology [IJIERT] ICITDCEME'15 Conference Proceedings
- Nitin M. Sakhare, Pankaj S. Shelke, Subhash Lahane, A. T. Autee (2016) Effect of Egr on a Stationary VCR Diesel Engine Using Cottonseed Biodiesel (B20) Fuel, Carbon – Sci. Tech. 8(3), PP.60-67
- Autee, A.T. and Giri, S.V., (2016) Experimental Analysis of Adiabatic Air-Water Two-Phase Flow Pressure Drop in Small Diameter Bends, Perspectives in Science, 8,PP 621–625

- P.S.Saljoshi and A.T.Autee., (2017) Experimental Investigation of Two-Phase Flow Patterns in Minichannels at Horizontal Orientation, International Journal of Heat and Mass Transfer, online first DOI 10.1007/s00231-017-2020-9
- Virbhadra Swami, Arun T.Autee, Anil T.R,(2018),Experimental Analysis of Solar Fish Dryer using phase change material”,International Journal of Energy Storage,20,30-315.
- N.J.Sisodiya, S.B.Chatanaar,A.T.Autee, B.G.Toksha(2018) Effect of Magnetic Field on Pressure Drop Using Two-phase Flow in Small Diameter Tubes at Horizontal Orientation’3(5), pp 38-45.
- G.E.Chaudhari, S.B.Charthankar, B.G.Toksha, A.T.Autee., (2018) “Experimental Study on Two-phase Flow Pressure Drop Using Ferrofluid (Fe₃O₄) and Magnetic Field Small Diameter Tubes Bends’3 (5), PP 18-32.
- “On the Prediction of Experimental Two-Phase Pressure Drop Through Microchannels” Thermal Science, 2025, <https://doi.org/10.2298/TSCI241003031B>
- “The Effect of Gas and Liquid Velocities on Two-Phase Flow Pressure Drop through Minichannels and Microchannels.” Indian Journal of Science and Technology. 18(16): 1260-1269. <https://doi.org/10.17485/IJST/v18i16.424>
- 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.
- Construction and praxis of six sigma DMAIC for bearing manufacturing Process T Kulkarni, B Toksha, S Shirsath, S Pankade, AT Autee Materials Today: Proceedings 72, 1426-1433
- Anti-wear (AW) and extreme-pressure (EP) behavior of jojoba oil dispersed with green additive CaCO₃ nanoparticles T Kulkarni, B Toksha, A Chatterjee, J Naik, A Autee Journal of Engineering and Applied Science 70 (1), 29
- Optimizing nanoparticle attributes for enhanced anti-wear performance in nano-lubricants T Kulkarni, B Toksha, A Autee Journal of Engineering and Applied Science 71 (1), 30

Books/ Book Chapter

Papers in National /International Conference Proceedings

- Presented a paper on “Effect of cryogenic treatment on wear rate of high carbon high chromium steel.” in International National Conference on Advances in Materials Processing and Characterization (AMPC2006) held at Anna University, Chennai, India during 28-30, August 2006.
- Presented a paper on “Intelligent Machine overview and Case Studies” in National Level

Technical Symposium (TECHNOMILLENNIUM 2006) held at MIT, Aurangabad on 15-17, September 2005.

- Presented a paper on “Energy Option for India” in International Technical Symposium (TECHNOMILLENNIUM 2006) held in MIT, Aurangabad on 15-17, September 2006.
- Presented a paper on “Experimental Analysis of Adiabatic Air-Water Two-Phase Flow Pressure Drop in Small Diameter Bends” International Conference on Engineering and Material Science-2016 (ICEMS 2016)
- Presented Application of Coconut Coir For Eco-friendly insulated Sandwich Panel (ME037) in International Conference on recent trends & research in Engineering and Science (ICRTRES 2K20), organized by Padm. Dr. V. B. Kolte College of Engineering, Malkapur - held on 2nd & 3rd May 2020.

NPTEL Certification

Start Date	End Date	Duration (in Weeks)	Course Name	Marks (Out of 100)	Performance
Feb.2019	March 2019	4 week	Teaching and learning in Engineering	71	Elite

Awards, Achievements and Recognition

Approved Ph.D. Guide [Dr. B.A.M.U. Aurangabad] – three candidates pursuing Ph.D.
TWO Candidates completed Ph.D till date

Date: 18/03/2026

Place: Chhatrapati Sambhajinagar

Dr.Arun T Autee