



Personal Profile

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Education

Degree	Institute/University	Class and percentage	Year of passing
Ph.D. (Mech.Engg.)	Rashtrasant Tukdoji Maharaj Nagpur University	--	2017
M.Tech. (Heat Power Engg.)	Visveswaraya National Institute of Technology, Nagpur	9.13	2010
B.E. (Mech.Engg.)	Pune University	60.33	2003
D.M.E.	Government Polytechnic, Nashik	72.28	1998

Thesis/dissertation

Degree	Supervisors	Title
Ph.D.	Dr. P.R.Dongarwar Dr. R.R.Gawande	“Experimental investigation to study the effect of combination of various passive heat transfer augmentation techniques in circular tube”
M.E	Dr. D.B.Zodpe	“Feasibility analysis of boiler blow down waste heat recovery system for Nashik Thermal Power System”

Professional experience details

Total experience as on 4th March 2022: 18 years, 2 Months

Organization/institute	Department	Post	From	To	Experience
MVPS's KBT College of Engineering, Nashik (NAAC Accredited 'A' grade institute)	Mechanical Engineering	Associate Professor	01/07/2014	Currently working	7 years, 8 Months
MVPS's KBT College of Engineering, Nashik (NAAC Accredited 'A' grade institute)	Mechanical Engineering	Assistant Professor	17/08/2010	30/06/2014	3 Years, 10 Months
MVPS's KBT College of Engineering, Nashik (NAAC Accredited 'A' grade institute)	Mechanical Engineering	Senior Lecturer	01/07/2009	16/08/2010	1 Year, 1 Month
MVPS's KBT College of Engineering, Nashik (NAAC Accredited 'A' grade institute)	Mechanical Engineering	Lecturer	27/12/2004	30/06/2009	4 Years, 7 Months

Publications

Total publications: 08

Journal Papers & Conference Proceedings

Journal Papers

- A paper entitled “Experimental investigation of turbulent heat transfer performance in internal flow using a star shape cross sectioned twisted rod inserts” has been published in the Journal of “Heat and Mass Transfer”, Springer ,Volume 53, Issue-1(Jan.2017), pp. 253-264, ISSN 0947-7411 (printed edition), ISSN 1432-1181(online edition), Publisher-Springer Berlin Heidelberg, Impact factor-1.494
- A paper entitled “Thermo hydraulic performance comparison of compound inserts for a turbulent flow through a circular tube” has been published in the Journal of “Thermal Science”, Volume 21, Issue 3, (2017), pp. 1309-1319, ISSN 2334-7163 (online edition), ISSN 0354-9836 (printed edition), Publisher- Vinca Institute of Nuclear Sciences, Belgrade, Impact factor-1.093(2016)
- A paper entitled “Effect of helical screw tape insertion on heat transfer and pressure drop characteristics in a horizontal concentric double tube heat exchanger” has been published in the Journal of Applied Mechanics and Materials, Vols.541-542 (2014) pp. 622-627, ISSN 1662-7482
- A paper entitled “Heat transfer and pressure drop characteristics in a circular tube fitted with combined twisted tape and helical screw tape insert” has been published in the Journal of Journal of Computer Science and Applications, 2014.
- A paper entitled “Experimental investigation to study heat transfer and pressure drop characteristics of hemispherical cup shape passive insert for a fully developed turbulent flow in double pipe heat exchanger” has been published in Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162)
- A paper entitled “Performance study of cavity receiver of solar concentrator using dry test” has been published International Journal of research in Advent Technology, special issue- ICICME 2019, E-ISSN: 2321-9637.
- A paper entitled “Design and manufacturing of wheel mould” has been published in International Research Journal of Engineering and Technology , volume 7, issue 5, 2020.
- A paper entitled “characterization of silicon reinforced processing of zinc aluminium matrix” has been published in International Journal of Current Science and Engineering, volume 2, issue 5, pg. 331-335, May, 2020.

Papers presented in International /National Conferences

- Presented a paper entitled “Analysis of heat pipes to reduce the heat losses” in national conference held during 4-6 March, 2010 at MET’s Institute of Engineering, Nashik.
- Presented a paper entitled “Feasibility analysis of boiler blow down waste heat recovery system for Nashik Thermal Power Station” in international conference held during 23-25 Sept.,2010 at SVNIT, Surat.
- Presented a paper entitled “Effect of combination of various passive heat transfer augmentation techniques in circular tube – a literature review” in international conference held during 12-14 March, 2012 at Amrutvahini college of Engineering, Sangamner.
- Presented a paper entitled “Effect of helical screw tape insertion on heat transfer and pressure drop characteristics in a horizontal concentric double tube heat exchanger” in international conference held during 10-11 March, 2014 at Peneng, Malayasia.
- Presented a paper entitled “Experimental investigation to study heat transfer and pressure drop characteristics of hemispherical cup shape passive insert for a fully developed turbulent flow in double pipe heat exchanger” in international conference held during 26-27 April, 2019 at D.Y.Patil Institute of Engineering and Technology, Pune.
- Presented a paper entitled “Performance study of cavity receiver of solar concentrator using dry test” in international conference held during 26-27 April, 2019 at D.Y.Patil Institute of Engineering and Technology, Pune.
- Presented a paper entitled “Automated Guided vehicles –A literature review in national conference held during 25-26 Nov.2020 at M.V.P.S’s K.B.T.C.O.E., Nashik.

NPTEL /Coursera Courses completed

- Accreditation and Outcome based Learning
- IC Engines and Gas Turbines
- Steam Power Engineering
- Introduction to Public Speaking

Subjects taught

Sr. No.	Institute	Subjects
1	MVPS’s KBT College of Engineering, Nashik	Thermodynamics, Applied Thermodynamics, Engineering Metallurgy, Strengths of Materials, Refrigeration and Air Conditioning

Administrative work and technical activities

- Conducted a two days' workshop on "Two wheeler and three wheeler technologies" in association with IIT Delhi during 20-21 September, 2013 at N.D.M.V.P.S's K.B.T.C.O.E., Nashik.
- Worked as a faculty adviser for "SUPRA INDIA" (a student Formula 2015) held at Madras motor race track, Chennai between 16-19 July, 2015.
- Worked as a Director, Third Year CAP (Nov.Dec.2016) at NDMVPS'S KBT COE Nasik
- Worked as a Coordinator for cultural program for NAAC visit during 15th and 16th 2017.
- Worked as a Department Project Coordinator for 2012-13, 2014-15, 2017-18 and 2018-19, 2019-20.
- Working as a Chairman, Cultural Club at KBT COE
- Coordinated Institute "Ganesh Festival-2018" at KBT COE, Nashik
- Coordinated allotted work for KBT COE for "MVP KARANDAK" Elocution competition held at K.T.H.M. college on 21, 22, 23 January, 2019.
- Coordinated "JOSH TALKS" video shoot for you tube channel held at KBT COE on 19th and 20th January, 2019.
- Coordinated cultural events for "FUSION" (From 2011 to 2019")
- Working as a "Head, Innovation and Start Up cell" at KBT COE, Nasik
- Coordinated "MAHARASHTRA START UP YATRA" event in association with INDIA NETWORK at Mahakavi Kalidas Kalaamndir, Nashik on 3rd August, 2019.
- Coordinated expert talk by IAS officer Mr. Navjeevan Vijay Pawar at KBT COE under "VARI UPSC CHI"
- Coordinated RED FM "College ke Tashanbaaz" event at KBT COE on 27/08/2019
- Coordinated MY FM "Mr/Ms. KBT" event at KBT COE on 28/08/2019
- Coordinated "Ganesh Utsav- 2019" at KBT COE between 02/09/2019 to 06/09/2019
- Coordinated expert talk on "Startup awareness" by Mr. Ajay Katore under Startup club on 09/09/2019
- Coordinated expert talk on "Historical development of boilers" by Mr. Suyog Zute under the subject "Thermodynamics" on 11/09/2019
- Coordinated "College Level Ideation Competition 2019 under KBT COE Innovation and Start Up cell" held on 15/10/2019.
- Coordinated "MVP YUVA SPANDAN-2019-20" youth festival
- Coordinated awareness program on "Cyber security and financial management" under Startup club during 06/01/2020 to 10/01/2020
- Worked as a member of jury for Internal Smart India Hackathon Competition held at KBT COE, Nasik on 22nd and 23rd January, 2020.

- Coordinated a 3 days online FDP on “Renewable energy a future prospectus” organized by Department of Mechanical Engineering of KBT COE during 3-5 Sept. 2020.

Professional Membership

- Indian Society for Technical Education
- Institute for Engineers
- Society of Automotive Engineers India

Lectures delivered in seminar/workshop/STTP

Sr. No.	Topic	Event & institute	Date
1	Research Methodology	Organized by KVN Naik’s Loknete Gopinathji Munde Institute of Engineering education and Research Institute, Nashik.	4/4/2018
2	Vapor Compression Refrigeration Cycle	Jawahar Education Society’s Institute of Technology, Management and Research, Nashik.	19/1/2019

Conferences / Seminars / Workshops participated

- Attended a 5 days short term training programme on “Methods of vibration control” between 18-22 Dec.2006 organized by SVERI’s College of Engineering, Pandharpur.
- Attended one day workshop on “Non conventional energy sources” at Institute of Engineers on 25 Nov. 2005 at Nashik.
- Attended one day workshop on “Introduction to Mechatronics” held at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik on 2 September, 2006.
- Participated in Mission 10 X workshop on high impact teaching skills conducted at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik between 16-20 May, 2011.
- Attended one day workshop on “Direct use of renewable energy and energy saving systems in industries and home” conducted by MNEPA on 19 June, 2011 at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik
- Attended a two days workshop on “Research Methodology” (IIT Bombay) at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik.
- Attended a two days workshop on “Tribology” at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik.

- Participated in a two week ISTE workshop on “Engineering Thermodynamics” conducted by IIT Bombay between 11-21 Dec., 2012.
- Completed one day training for auditing of Quality Management System” as per ISO 9001-2008 on 9 March, 2013 N.D.M.V.P.S’s K.B.T.C.O.E., Nashik.
- Participated in one week short term course under quality improvement programme on “Performance improvement and emission reduction of internal combustion engines using alternative fuels” conducted by IIT Delhi during 13-17 May at IIT Delhi.
- Completed course work on research methodology and quantitative method of computer application at Bapurao Deshmukh college of Engineering, Wardha during Dec 2012-June 2013.
- Attended a two days workshop on research methodology during 14-15 Feb., 2014 at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik.
- Participated in a two days national level workshop on “Condition monitoring of rotating machinery” held during 7-8 Feb., 2017 at N.D.M.V.P.S’s K.B.T.C.O.E., Nashik sponsored by BCUD,SPPU, Pune.
- Completed Industrial Training on “Hands on Training of Power Plant Familiarization” held during 8-10 May, 2017 at Reliance Infrastructure Ltd., DTPS, Dahanu.
- Participated in AICTE sponsored one week short term QIP course on “Aircraft stealth technology, special emphasis a passive infrared signatures” conducted by IIT Bombay during 10-14 Nov, 2017.
- Attended a QIP short term course on “Multiphase Flow in Miniature Systems: Flow Modeling & Applications”, held at IIT Roorkee, during 04/06/2018 to 08/06/2018.
- Attended a two days Faculty Development Program on “Hands on Training of Project Based Learning, during 29-30 June 2018.
- Participated in two days conclave “SAHYOG” on Innovation and Incubation organized by SPPU’s Centre for “Innovation, Incubation and Linkages” on 8th and 9th March,2019 at PUMBA Auditorium, SPPU Campus, Pune.
- Attended a 3 days FDP on “Universal Human Values” organized by AICTE at KBT COE, Nashik during 9 to 11 August, 2019.
- Attended awareness workshop on “Start Ups” organized by IICL Cell, SPPU, Pune held at KTHM College, Nashik on 22nd August, 2019
- Completed a course era certification course on “Introduction to public speaking” in August 2020.
- Completed a moodle test for teachers offered by IIT, Bombay on 09/05/2020.

Declaration

I consider myself familiar with Mechanical Engineering Aspects. I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Nashik (Maharashtra State)

(Dr. Arvind Ashok Kapse)