

Mahesh R. Chopade

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Maharashtra, India
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Personal Details:

Date of Birth: 30th June 1980

Education:

- **Doctor of Philosophy (Ph. D.) (September 2017)**
Bharati Vidyapeeth Deemed University Pune
- **M.E. (Heat Power): (July 2007)**
VIT Pune, University of Pune (First Class)
- **Post Graduate Diploma in Advanced Computational Fluid Dynamics (DACFD) C-CTECH Pune (ICEM-CFD, FLUENT, GAMBIT)**
- **Diploma in Information Technology (DIIT C-DAC)**
RIT Sakharale
- **B.E. Mechanical: (June 2002)**
RIT, Shivaji University (First Class)

Work

Experience:

Name of organization

MIT ART Design and Technology University, Pune

Present Designation: Registrar

MIT COLLEGE OF ENGINEERING, PUNE

Designation: Professor in Mechanical Engineering and Director

Infrastructure, MIT Group of Institutions.

Position & Period:

Lecturer : 01/08/2003 to 31/07/2009

Assistant Professor : 01/08/2009 to 30/06/2015

Associate Professor : 01/07/2015 to 30/06/2018

Dean Infrastructure : 02/01/2014 to 30/06/2018

Professor : 01/07/2018 onwards

Director Infrastructure : 01/07/2018 to 30/09/2020

Projects Completed:

1. Performance Enhancement of Air Filter by Geometry Optimization using CFD at ISMT Jejuri, Pune. April 2011.
2. Performance Enhancement of Air Filter by Design Optimization using CFD at MAHLE Filter Systems (India) Limited Pune, June 2010.

3. Analysis of flow over Impeller of the Centrifugal Pump using CFD” at WILO Mather + Platt Pune, December 2008.
4. Experimental and Computational Analysis of Fins with Different types of Grooves.
5. Enhancement of heat transfer in twisted duct
6. Enhancement of heat transfer by providing Notches and Dimples on the fins.

Contributions in the Development of Institute/Department:

1. Timetable In-charge, Exam Co-coordinator, ISO Certification of Institute, Convener for various Programs/ Workshops/ Seminars organized at national and international levels etc.
2. Co-ordinator for development of laboratories at the department and Institute
3. Co-ordinator for development of Workshop.
4. AICTE Coordinator for Extension of Approvals, Increase in Intake and Establishment of New Institutions.

Subjects Taught:

1. Computational Fluid Dynamics (ME)
2. Advanced Mathematics and Numerical Methods (ME)
3. Industrial Fluid Power (BE)
4. Fluid Machinery/Turbo Machines (TE)
5. Fluid Mechanics (SE)
6. Computer Graphics (SE)
7. Engineering Graphics (FE)
8. Basic Mechanical Engineering (FE)

Laboratories Developed:

1. CAD/CAM/CAE Lab
2. Fluid Mechanics Lab
3. Fluid Machinery Lab
4. TOM & DOM Lab
5. Industrial Fluid Power Lab
6. Thermal Engineering Lab
7. Heat Transfer Lab

Ph.D. Thesis: Experimental Analysis and Investigation for Thermal Behaviour of Ventilated Disc Brake Rotor Using CFD

- This work was carried for the analysis of existing disc brake rotors and performance evaluation of modified ventilated disc brake rotor geometry configurations for heat dissipation. Based on that, proposed a better

configuration of ventilated disk brake rotor for automotive industry.

M.E. Project: Energy Audit of High Explosive Factory, Khadaki, Pune

- This was an energy audit of mechanical equipments used in HEF. HEF is a factory which comes under the ministry of Defense and which manufactures high explosives. We carried out the energy audit of mechanical equipments used in HEF. Result of the audit includes identification of various energy losses, recommendations and finally implementations and follow up.

B.E. Project: Vibration Analysis of Centrifugal Machines in Sugar Factory

Workshops and Conferences: (Organized/ Attended)

Organized:

- International Conference on Emerging Trends on Waste Management Technology (ETWMT-2009)
- International Conference on Green and Clean Environment (GCE 2008)
- National level Workshop on Nano-technology (NANOTECH 2008)
- Short Term Training Program (STTP) on Lighting Technology

Attended:

- A Two day Workshop on “Discover Finite Element Analysis Like Never Before” (organized by ARAI-FID Pune)
- A Two day Workshop on Internal Quality Auditor for ISO 9001-2000 (held at Nashik)
- International Conference on Advances in Machine Design and Industry Automation (Held at COEP Pune)
- National Level Conference on Energy Saving in Mechanical and Electrical Equipments (Held at Institute of Engineers Pune)
- National level Conference on Energy Saving (held at IIT Mumbai)
- National level Conference on Rapid Prototyping & Its Application (held at PCOE Thane)
- One-day workshop on Effective Teaching – Learning Process (Held at MITWEC).

Publications:

- Experimental Investigation Using CFD for Thermal Performance of Ventilating Disc Brake Rotor.
Springer: International Journal of Automotive Technology
- Experimental Analysis and Investigation for Thermal Performance of Ventilating disc Brake rotor using CFD.
ASME International Conference, HT2016, Washington DC, USA.
- Flow and Heat transfer Analysis of Variable Diameter Circular Pillar Disc Brake rotor using CFD.

IEEE Conference, ICMAE 2016 London, UK.

- Patent Publication: Ventilated Disc Brake Rotor having Variable Diameter Circular Pillars.

Indian Journal of Patent, Application No. : 1817/MUM/2015 A, Publication Date: 29/05/2015

- Patent: Experimental Analysis and Investigation for Thermal Behavior of Ventilated Disc Brake Rotor using CFD.

Indian Journal of Patent, Application No. : 2754/MUM/2012 Dated: 21/12/2012

Major Contributions & Awards:

- Recipient of MAEER's Foundation Day Award 2017
- Received Best Teachers Award 2013
- Recognition of Contributions towards establishment of MIT College of Railway Engineering and Research, Barshi:

Felicitations by the hands of Hon'ble Municipal Commissioner, Solapur and Hon'ble Vice Chancellor, Solapur University, Solapur.

Represented MIT group of institutions at different educational exhibitions.

Computer Skills:

Operating systems: Windows, DOS

Language: C, C++

Packages: CFD (ICEM-CFD, FLUENT, GAMBIT), Pro-E, I-DEAS, AutoCAD

Hobbies:

Traveling, watching, swimming, cycling and reading about current affairs.

I hereby declare that the above mentioned information is true and correct to the best of my Knowledge.

Date: 07/07/2021

Place: Pune

Signature

List of Publications

Sr. No	Title of Paper	Publication	Year	Name of Journal/Conference
1	Fire Suppression Systems for High Rise Buildings in India: Review Article	International Journal	2020	International Journal of Scientific Research and Engineering Development
2	Experimental Investigation Using CFD For Thermal Performance of Ventilated Disc Brake Rotor	Springer: International Journal	2017	International Journal of Automotive Technology
3	Flow and Heat transfer Analysis of Variable Diameter Circular Pillar Disc Brake rotor using CFD	IEEE International Conference	2016	IEEE Conference ICMAE 2016 London, UK
4	Experimental Analysis and Investigation for Thermal Performance of Ventilated disc Brake rotor using CFD	ASME International Conference	2016	ASME International Conference, HT2016, Washington DC, USA.
5	Patent Publication: Ventilated Disc Brake Rotor having Variable Diameter Circular Pillars	Indian Journal of Patent	2015	Application No. : 1817/MUM/2015 A, Publication Date: 29/05/2015
6	Investigation for Flow of Cooling Air through the Ventilated Disc Brake Rotor using CFD	International Journal	2015	International Journal of Thermal Technologies
7	Thermal Analysis and Optimization of a Ventilated Disk Brake Rotor using CFD Techniques	International Journal	2015	International Journal of Emerging Technology and Advanced Engineering
8	Experimental Analysis and Investigation for Flow through the Ventilated Disc Brake Rotor Using CFD	National Conference	2015	Proceedings of National Conference on Advances in Mechanical Engineering Techniques (AMET-2015)
9	Experimental Analysis and Investigation for Thermal Behavior of Ventilated Disc Brake Rotor: A Review	International Journal	2014	International Journal for Scientific Research & Development Vol. 2, Issue 07, 2014 ISSN (online): 2321-0613
10	Experimental Analysis and Investigation for Thermal Behavior of Ventilated Disc Brake Rotor using CFD	International Journal	2014	International Journal of Current Engineering and Technology
11	Thermal Analysis of Automotive Brake Rotor	International Journal	2014	International Journal of Current Engineering and Technology
12	Investigation for Flow and Heat Transfer Characteristics of Ventilated Disk Brake Rotor	Elsevier International Conference	2014	International Conference on Mechanical Engineering (ICME -2014) India Aug 21-23 2014.

	Using CFD			
13	Performance Enhancement of a Centrifugal Blower using Experimental and Computational Techniques	Elsevier International Conference	2014	Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014)
14	Patent: Experimental Analysis and Investigation for Thermal Behavior of Ventilated Disc Brake Rotor using CFD	Indian Journal of Patent	2012	Application No. : 2754/MUM/2012 Dated: 21/12/2012
15	Performance Enhancement of Air Filter By Design Optimization	International Journal	2012	International Journal of Advanced Engineering Technology