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Designation	:	Assistant Professor	
Department	:	Mechanical Engineering	
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Qualifications with Class / Grade	:	Ph.D. in Mechanical Engineering, NIT, Raipur in 2016 M.E. (Thermal Engineering), NIT, Raipur in 2003 B.E. Mechanical Engineering, Nagpur University in 1999	
Total Experience in Years	:	Teaching: 21 Industry: 01	
Area of Interest	:	Computation Fluid Dynamics, Energy Systems, Solar Energy, Thermal Management Systems, Sustainable Energy, Airflow and Contamination Control	
Research Papers Published: International: ---	:	[1] “Fabrication, Experimentation and Numerical Simulation of Micro Channel Heat Sink for Enhancing Thermal Performance of Electronic Devices”, International Journal on Interactive Design and Manufacturing (IJIDeM) https://doi.org/10.1007/s12008-023-01482-7. (SCOPUS) [2] “Fabrication, Experimental and computational analysis of riser tubes of modified simple solar water heater with different twisted inserts Devices”, International Journal on Interactive Design and Manufacturing (IJIDeM) https://doi.org/10.1007/s12008-023-01233-8. (SCOPUS) [3] “Experimental Investigation of Al₂O₃ Nanofluid for Thermal Energy Management of Microchannel Heat Sink”, Transdisciplinary Journal of Engineering & Science, Vol. SP-2, pp. 203-216, 2022. doi: 10.22545/2022/00218. (SCOPUS) [4] “Development of a mathematical model for prediction of heat transfer coefficient in micro-channel heat sink”, Materials Today: Proceedings 54 (2022) 753–757, https://doi.org/10.1016/j.matpr.2021.11.070. (SCOPUS) [5] “Preparation, applications and challenges of nanofluids in electronic cooling: A systematic review”, Materials Today: Proceedings 43 (2021) 366–372, https://doi.org/10.1016/j.matpr.2020.11.679. (SCOPUS) [6] “Current Technologies on Electronics Cooling and Scope for Further Improvement: A Typical Review”, Proceedings of the International Conference on Industrial and Manufacturing Systems (CIMS-2020), Lecture Notes on Multidisciplinary Industrial Engineering, https://doi.org/10.1007/978-3-030-73495-4_27, pp 389-408. (SCOPUS)	

	[7] “Geometric Analysis and Scope of Nanofluid in Micro Channel Heat Sinks for Electronic Cooling Application – A Review”, <i>International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)</i> Vol. 10, Issue 3, Jun 2020, 12447–12468. (SCOPUS) [8] “Numerical study of various vertical laminar ventilation systems for operating room in hospitals in the view of infection control”, <i>International Journal Computer Application in Technology (InderScience Publication)</i> (2014). [9] “Numerical investigation of performance of mixing ventilation, Research Support Society (SERSE)”, <i>International Journal of Bio-Science and Bio-Technology</i>, Vol. 6, pp. 87-98. (ISSN No.: 2233-7649) (2014). [10] “Modeling and Investigation of vertical laminar airflow with perimeter air curtain ventilation system in surgical site of hospital using computational fluid dynamics”, <i>International Journal of Scientific and Engineering Research</i>, Vol. 5, pp. 781–788. (ISSN No.: 2229-5518) (2014). [11] “Simulation of room airflow using CFD and validation with experimental results”, <i>International Journal of Engineering Science and Technology</i>, Vol. 6, No. 5, pp. 192–202. (ISSN No.: 2278-9510) (2014). [12] “Investigation of performance of mixing ventilation systems for operating room in the view of infection control”, <i>International Journal of Advancement in Research and Technology</i>, Vol. 3, No. 4, pp. 254–261. (ISSN No.: 2278-7764) (2014). [13] “Computational fluid dynamics modeling and investigation of horizontal airflow ventilation system in surgical site of hospital”, <i>IOSR Journal of Mechanical and Civil Engineering</i>, Vol. 11, No. 2, pp. 40–46. (DOI: 10.1142/S2047684112500340), (ANED DDL No.: 13.1864/iosr-Jmce-G011284046). (ISSN No.: 2278-1684) (2014). [14] “Numerical simulation and comparison of two conventional ventilation systems of operating room in the view of contamination control”, <i>International Journal of Computer Application</i>, Vol. 85, No. 5, pp. 31–35. (ISSN No.: 0975-8887) (2014). [15] “A review of ventilation systems in the view of contamination control in operating room”, <i>International Journal of Innovative Science, Engineering and Technology</i>, Vol. 1, No. 4, pp. 11–14. ((2014). [16] “Formulation of an approximate experimental data based model for heat transfer augmentation employing electro hydrodynamic (EHD) technique”, <i>International Journal of Mechanics and Thermodynamics</i>, Vol. 3, No. 2, PP. 45-56. (ISSN No.: 2278-361X).
Book Publication	Book titled “ Engineering Fluid Mechanics: Theory and Practice ” published with NAROSA publication house and ALFA SCIENCE INTERNATIONAL.
Patents Granted	A nanofluid-based microchannel cooling system (MCHS) for efficient cooling in electronics devices (utility model no. 20 2024 104 344) granted by Federal Republic of Germany Patent and Trademark Office.
Pedagogy Development	1. Udemy: A Course on Engineering Mechanics: Statics 2. Udemy: Heat Transfer: Theory and Practice
Additional Courses	1. Ansys Learning Track Completion: Getting Started with Ansys Fluent – Beyond the Basics 2. Ansys Learning Track Track Completion: Basics of Fluid Dynamics 3. Ansys Learning Track Track Completion: Real Viscous Flows

		4. NPTEL online certification in Foundation of Computational Fluid Dynamics (Toper) 5. NPTEL online certification in Solar Engineering and Technology 6. NPTEL online certification in Computational Fluid Dynamics using Finite Volume Method 7. Online refresher course on “Fluid Mechanics in Action: Principles, Advances and Applications”, IIT(ISM) Dhanbad with A+ grade. 8. Learning to Teach Online (Coursera Certificate course) 9. Assessment in Higher Education: Professional Development for Teachers (Coursera Certificate course) 10. Programming for Everybody – Getting Started with Python (Coursera Certificate course) 11. Python Data Structure (Coursera Certificate course) 12. JAVA Programming (Coursera Certificate course)
Professional Memberships	:	[1] Indian Society of Manufacturing Engineers (ISME) [2] Indian Society for Refrigeration and Air Conditioning (ISTE)
Subjects Taught	:	• Engineering Mechanics • Engineering Thermodynamics • Fluid Mechanics and Machinery • Heat Transfer • Power Plant Engineering • Computational Fluid Dynamics • Renewable Energy Systems • Energy Conversion Systems • Energy Management
Ph.D. Thesis Guided	:	1. Numerical simulation of air flow and heat transfer in infant incubator and warmer (Completed) 2. Experimental and numerical investigation of modified simple solar water heater (Completed) 3. Experimental and Numerical Investigation of Performance of Microchannel Heat Sink for Laptop Cooling (Completed)