

Dr. Sanjeev Bhagwan Thool

Assistant Professor

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Field of Research Interest

Energy Systems, Computational Fluid Dynamics, Bio-Fluid Mechanics, Heat Exchangers, Solar Energy.

Educational Degrees

PhD Department of Mechanical Engineering, National Institute of Technology, Raipur
Thesis: Numerical Simulation of Air flow and Contamination control in surgical site

ME Department of Mechanical Engineering, National Institute of Technology, Raipur
Specialisation: Energy System and Pollution (Thermal Engineering)

BE Department of Mechanical Engineering, Priyadarshini College of Engineering, Nagpur

Present Position

Assistant Professor in Department of Mechanical Engineering, D. J. Sanghvi College of Engineering, Vile Parle, Mumbai.

Professional Experience: Academic: 18 years, Industrial: 1 years

Ph D supervision

Sr. No.	Topic of research	Research center
1	Numerical simulation of air flow and heat transfer in infant incubator and warmer (Completed)	NIT, Raipur
2	Experimental and Numerical Investigation of Performance of Microchannel Heat Sink for Laptop Cooling	NIT, Raipur

Book Publications

1. Book titled “**Engineering Fluid Mechanics: Theory and Practice**” published with NAROSA publication house and ALFA SCIENCE INTERNATIONAL.

Workshops / Seminars Attended

1. One week FDP on 'Open FOAM' Organized by Shri Vile Parle Kelvani Mandal's Institute of Technology Dhule in association with Indian Institute of Technology, Bombay, 1st June to 7 June 2020.
2. One week FDP on "A Journey into the Manufacturing Sector in India in view of Industry 4.0 practice and COVID - 19", June 2020.
3. One week STTP on Robotics and Industrial Automation, November 2018.
4. One week FDP covering various aspects of Industry-Institute Interaction, 2018.
5. Two days FDP on Active Teaching Learning Strategies using Innovative Technology, February 2019.
6. One week AICTE-ISTE approved Refresher Programme on "Challenges and Opportunities in Manufacturing Processes in Indian Scenario" July 2019.
7. Two Days Program organized by SVKM's D J Sanghvi College of Engineering, Juhu Mumbai during 25 to 26 February 2019.
8. Two Days Program organized by SVKM's D J Sanghvi College of Engineering, Juhu Mumbai during 25 to 26 February 2019.
9. Three Days Program organized by SVKM's Mithibai College, Juhu Mumbai during 22nd to 24th June 2017.
10. ISTE Approved One Week National Level Workshop on 'Innovation and Research in Thermal Engineering' at PIET, Nagpur during 3rd to 9th May 2017.
11. One week workshop on "Advanced Tools in Research Methodology" at RCET, Bhilai (CG).
12. One-week workshop on 'Teaching Enhancement Program - MISSION 10X' conducted by Wipro.
13. One-week workshop on 'Computational Fluid Dynamics' at BDCE, Sewagram, Wardha.
14. Three days workshop on 'Research Methodology' at PCE, Nagpur.
15. Three days workshop on Accreditation Awareness' at KDKCE, Nagpur.

Workshops / Seminars Attended

1. Delivered a lecture in a Webinar series on "Emerging Frontiers of Research in Energy Systems" organized by Department of Mechanical Engineering, DJSCE, Mumbai.

Additional Courses

1. Learning to Teach Online (Coursera Certificate course)
2. Assessment in Higher Education: Professional Development for Teachers (Coursera Certificate course)
3. Programming for Everybody – Getting Started with Python (Coursera Certificate course)
4. Python Data Structure (Coursera Certificate course)

Membership of Scientific / Engineering Professional Bodies

1. Member of Indian Society of Heating, Refrigeration, Air-conditioning Engineers (ISHRE)
2. Member of Indian Society of Manufacturing Engineering

List of Publications

International Journal Papers

- [1] Aglawe K. R., Yadav R. K. and **Thool S. B.**, 2021, Preparation, applications and challenges of nanofluids in electronic cooling: A systematic review, *Materials Today, Science Direct* 43 (2021) 366 – 372.
- [2] Aglawe K. R., Yadav R. K. and **Thool S. B.**, 2020, Current technologies on electronics cooling and a scope for further improvement: A typical review, *International Journal Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, Trans Stellar Publication, Vol. 10, Issue 3, Jun 2020, (ISSN No.: 12447-12668)
- [3] **Thool S. B.** and Sinha, S. L., 2014, Numerical study of various vertical laminar ventilation systems for operating room in hospitals in the view of infection control, *International Journal Computer Application in Technology (InderScience Publication)*.
- [4] **Thool S. B.** and Sinha, S. L., 2014, Numerical investigation of performance of mixing ventilation, Research Support Society (SERSE), *International Journal of Bio-Science and Bio-Technology*, Vol. 6, pp. 87-98. (ISSN No.: 2233-7649)
- [5] **Thool S. B.** and Sinha, S. L., 2014, Modeling and Investigation of vertical laminar airflow with perimeter air curtain ventilation system in surgical site of hospital using computational fluid dynamics, *International Journal of Scientific and Engineering Research*, Vol. 5, pp. 781–788. (ISSN No.: 2229-5518).
- [6] **Thool S. B.** and Sinha, S. L., 2014, Simulation of room airflow using CFD and validation with experimental results, *International Journal of Engineering Science and Technology*, Vol. 6, No. 5, pp. 192–202. (ISSN No.: 2278-9510) (Impact factor: 3.14)
- [7] **Thool S. B.** and Sinha, S. L., 2014, Investigation of performance of mixing ventilation systems for operating room in the view of infection control, *International Journal of Advancement in Research and Technology*, Vol. 3, No. 4, pp. 254–261. (ISSN No.: 2278-7764) (Impact factor: 0.4)
- [8] **Thool S. B.** and Sinha, S. L., 2014, Computational fluid dynamics modeling and investigation of horizontal airflow ventilation system in surgical site of hospital, *IOSR Journal of Mechanical and Civil Engineering*, Vol. 11, No. 2, pp. 40–46. (DOI: 10.1142/S2047684112500340), (ANED DDL No.: 13.1864/iosr-Jmce-G011284046). (ISSN No.: 2278-1684) (Impact factor: 3.14)
- [9] **Thool S. B.** and Sinha, S. L., 2014, Numerical simulation and comparison of two conventional ventilation systems of operating room in the view of contamination control, *International Journal of Computer Application*, Vol. 85, No. 5, pp. 31–35. (ISSN No.: 0975-8887) (Impact factor: 1.76)
- [10] **Thool S. B.** and Sinha, S. L., 2014, A review of ventilation systems in the view of contamination control in operating room, *International Journal of Innovative Science, Engineering and Technology*, Vol. 1, No. 4, pp. 11–14. (Impact factor: 0.611)
- [11] Matey M. S., Modak J, P. and **Thool S. B.**, 2012, Formulation of an approximate experimental data based model for heat transfer augmentation employing

electrohydrodynamic (EHD) technique, *International Journal of Mechanics and Thermodynamics*, Vol. 3, No. 2, PP. 45-56. (ISSN No.: 2278-361X) (Impact factor: 3.14).

Conferences

- [1] Aglawe K. R., Yadav R. K. and **Thool S. B.**, 2020, Geometric analysis and scope of nanofluid in micro channel heat sink for electronic cooling application – A review. *International Conference on Industrial and Manufacturing Systems (CIMS – 2020)*, October 09 – 11. 2020. (Best Paper Award).
- [2] Sinha S. L. and **Thool, S. B.**, 2014, Performance evaluation of laminar ventilation systems for operating room, *International Conference on Information Technology and Engineering, Hong Kong*, October 2-4, 2014.
- [3] **Thool S. B.**, Under Floor Air Distribution System – An Alternative Conventional Air Distribution System, *SHAASRARTH, RECT, Bhilai*, February 8-9, 2013.
- [4] **Thool S. B.**, Undirwade S. K. and Gadge P. A., Electrical Energy for Comfort in Residential House Using Passive Solar System, *International Conference on Innovative Science and Engineering Technology, Rajkot*, April 8-9, 2011.