


Name of Teaching Staff	: Dr. Sanjeev Thool	
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Department	: Mechanical Engineering	
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Qualifications with Class / Grade	: 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	
Total Experience in Years	: Academic Experience – 18 years Industrial Experience – 2 years	
Papers Published in Journal:	: [1] Aglawe K. R., Yadav R. K. and Thool S. B. , 2021, Preparation, applications and challenges of nanofluids in electronic cooling: A systematic review, <i>Materials Today, Science Direct</i> 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, <i>International Journal Journal of Mechanical and Production Engineering Research and Development (IJMPERD)</i> , 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, <i>International Journal Computer Application in Technology (InderScience Publication)</i> . [4] Thool S. B. and Sinha, S. L., 2014, Numerical investigation of performance of mixing ventilation, Research Support Society	

	<p>(SERSE), International Journal of Bio-Science and Bio-Technology, Vol. 6, pp. 87-98. (ISSN No.: 2233-7649)</p> <p>[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, <i>International Journal of Scientific and Engineering Research</i>, Vol. 5, pp. 781–788. (ISSN No.: 2229-5518).</p> <p>[6] Thool S. B. and Sinha, S. L., 2014, 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) (Impact factor: 3.14)</p> <p>[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, <i>International Journal of Advancement in Research and Technology</i>, Vol. 3, No. 4, pp. 254–261. (ISSN No.: 2278-7764) (Impact factor: 0.4)</p> <p>[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, <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) (Impact factor: 3.14)</p> <p>[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, <i>International Journal of Computer Application</i>, Vol. 85, No. 5, pp. 31–35. (ISSN No.: 0975-8887) (Impact factor: 1.76)</p> <p>[10] Thool S. B. and Sinha, S. L., 2014, 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. (Impact factor: 0.611)</p> <p>[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, <i>International Journal of Mechanics and Thermodynamics</i>, Vol. 3, No. 2, PP. 45-56. (ISSN No.: 2278-361X) (Impact factor: 3.14).</p>
Papers Presented in Conferences	<p>[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).</p>

		<p>[2] Sinha S. L. and Thool, S. B., 2014, Performance evaluation of laminar ventilation systems for operating room, <i>International Conference on Information Technology and Engineering, Hong Kong</i>, October 2-4, 2014.</p> <p>[3] Thool S. B., Under Floor Air Distribution System – An Alternative Conventional Air Distribution System, <i>SHAASTRARTH, RECT, Bhilai</i>, February 8-9, 2013.</p> <p>[4] Thool S. B., Undirwade S. K. and Gadge P. A., Electrical Energy for Comfort in Residential House Using Passive Solar System, <i>International Conference on Innovative Science and Engineering Technology, Rajkot</i>, April 8-9, 2011.</p>
Area of Specialization		Computational Fluid Dynamics, Ventilation System Design, Compact Heat Exchanger, Solar Energy Systems
PhD Guide ? Give field & University	:	<p>Field: Registered Co-supervisor in the field of Thermal Engineering</p> <p>University: National Institute of Technology, Raipur</p>
PhDs / Projects Guided	:	<p>PhDs :</p> <ol style="list-style-type: none"> 1. Numerical simulation of air flow and heat transfer in infant incubator and warmer (Completed) 2. Experimental and Numerical Investigation of Performance of Microchannel Heat Sink for Laptop Cooling (undergoing) <p>Projects at Masters level:</p> <ol style="list-style-type: none"> 1. Design of bio-safety cabinet and performance analysis using CFD 2. Numerical simulation heat transfer through composite materials 3. Performance analysis of disc and doughnut baffle and segmental baffles in shell and tube heat exchanger 4. Numerical analysis and colling performance prediction of transformer.
Books Published / IPRs / Patents	:	<p>Books (Editors for conference Proceedings on Springer)</p> <p>Book titled “Engineering Fluid Mechanics: Theory and Practice” published with NAROSA publication house and ALFA SCIENCE INTERNATIONAL.</p>
Professional Memberships	:	<ol style="list-style-type: none"> 1. Member of Indian Society of Heating, Refrigeration, Air-conditioning Engineers (ISHRE) 2. Member of Indian Society of Manufacturing Engineering
Grants fetched	:	Minor Research Grant (University of Mumbai)

Interaction with Professional Institutions	:	<p>Guest Lectures: Delivered a lecture on ‘Numerical Approach in Ventilation System Design for Healthcare Facilities’ in a Webinar series on “Emerging Frontiers of Research in Energy Systems” organized by Department of Mechanical Engineering, DJSCE, Mumbai.</p> <p>Other Achievements and Responsibilities: Best Paper Award in International Conference on Industrial and Manufacturing System, organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar. Title of paper: Current Technologies on Electronics Cooling and Scope for Further Improvement</p>
Subjects Taught		<p>UG Level: Heat Transfer, Fluid Dynamics, Power Engineering, Applied Thermodynamics, Refrigeration and Air Conditioning, Power Plant Engineering</p> <p>PG Level: Industrial Automation, Advanced Energy Conversion Systems</p>
Projects Guided	:	<p>UG Level: 10</p> <p>PG Level: 04</p>
Recommended Students for Higher Education	<p><u>Name of the Student</u></p> <p>Alvenia Bohara Mudit Purohit Abhishek Gupta Jenish Shah</p>	<p><u>University/Industry</u></p> <p>State University Of New York Binghamton University Purdue University Rochester Institute of Technology</p>
Institute/Department Responsibility handled:		<ol style="list-style-type: none"> 1. Head of Department of Mechanical Engineering in MGMs College of Engineering, Navi Mumbai 2. Student’s data in-charge of Mechanical Engineering in DJSCE
Pedagogy Development		