




Siddaganga Institute of Technology, Tumkur 572103

An autonomous institute, Affiliated to VTU Belgaum, Approved by AICTE, Programmes Accredited by NBA

Department of Architecture

<p>Dr.Naveen Kishore Khambadkone</p> <p>Associate Professor, Architecture,</p> <p>naveenkishore@sit.ac.in knaveen.edu@gmail.com</p> <p>Mobile: 08109598356, 09424484778</p>		
<p>Educational Qualifications</p>	<p>1. B.Arch (Bachelor of Architecture) from Malnad College of Engineering, Hassan, University of Mysore, Karnataka.</p> <p>2. Diploma in Advanced Architectural CADD (Computer Aided Design & Drafting) from CADD Centre India Pvt. Ltd, Mylapore, Chennai.</p> <p>3. M.E. (Honors) in Construction Technology and Management from RGPV, Bhopal.</p> <p>4. Ph.D from Maulana Azad National Institute of Technology (MANIT-An Institution of National importance under MHRD Govt. of India), Bhopal.</p>	
<p>Experience</p>	<p>Teaching (8 yrs.)</p>	<p>1. Sr.Lecturer in Oriental Institute of Science and Technology, Bhopal from <i>July 2009 – July 2010</i>.</p> <p>2. Assistant Professor in Corporate Institute of Science & Technology, Bhopal <i>from 22nd March 2012- 7th January 2017</i>.</p> <p>3. Assistant Professor (Architecture) in School of Planning and Architecture (SPA), Bhopal from <i>12th January 2017- 4th Jan-2019</i> <i>(An Institution of National Importance under MHRD, Govt. of India)</i></p> <p>4. Associate Professor in Architecture, School of Architecture) SOA, Siddaganga Institute of Technology, Tumkur from <i>16th Jan 2019 till present</i>.</p>

	<p>Industry (10 yrs.)</p> <ol style="list-style-type: none"> 1. CADD Center India Pvt. Ltd, New Delhi. as CADD engineer from June 1999 to July 2000. 2. Vastu Vista Architects, Planners and Interior designers Pvt. Ltd. as Architect from 4th Aug 2000 till 31st Dec 2001. 3. ARTSCAN –Architects and Interior designers Pvt. Ltd, Greenpark, New Delhi. As Architect from Jan 2002 till Jan 2003. 4. Magnum Technology Solutions Pvt. Ltd. New Delhi. (a division of ACA Europe-Paris, France) as Architect and 3D modeler from Feb 2003 till April 2004 5. Vastu Vista Architects, Planners and Interior designers Pvt. Ltd. as Architect from 4th May 2004 till 22nd July 2009.
Areas of Interest/Research	<ul style="list-style-type: none"> • Bioclimatic architecture • Climate responsive design in Architecture. • Energy efficient buildings (Green buildings) • Low energy building materials • Embodied energy in buildings • Thermal performance of Naturally ventilated buildings • Passive cooling techniques for buildings
MASTERS THESIS TOPIC	LIFE CYCLE ENERGY ANALYSIS OF A RESIDENTIAL BUILDING USING CONVENTIONAL AND ALTERNATIVE BUILDING MATERIALS.
Ph.D THESIS TOPIC	<i>'A BIOCLIMATIC TOOL FOR ANALYZING COMFORT POTENTIAL OF PASSIVE DESIGN STRATEGIES IN THE CONTEXT OF COMPOSITE CLIMATE ZONE OF INDIA'</i>
Awards/Honors/Certifications	<ol style="list-style-type: none"> 1. Architectural Engineering Division prize: Awarded the best paper award for my paper titled 'Embodied Energy Assessment and Comparisons for a Residential Building Using Conventional and Alternative Materials in Indian Context' (published in the Series 'A' Journal of IEI, Vol. 95, Issue 2, SPRINGER) under the '<i>Architectural Engineering subject prize</i>' category, by the Institution of Engineers, India, Kolkata on 18th December 2015 at the 30th Indian Engineering Congress held at Pragjyoti-ITA Centre for Performing Arts, Machkhowa, Guwahati 781009, Assam. 2. Best Paper award: Awarded 1st PRIZE (Best paper) in paper presentation competition held on 21st January 2018 on <i>Research scholars day</i> in Maulana Azad National Institute of Technology (MANIT), Bhopal for my Paper titled '<i>A bioclimatic tool for developing spatial maps for Passive heating and cooling strategies within a composite zone of India</i>' as part of my Ph.D research work. 3. Certificate of reviewing for International journal Energy and Buildings, Elsevier, Amsterdam, The Netherlands –April 2017. 4. Certificate for outstanding reviewer for International Journal Sustainable Cities and Society, Elsevier, Amsterdam, The Netherlands- August 2018.

<p>Publications</p>	<p>International Conferences</p>	<p>1. Presented paper on Title '<i>Comparative evaluation of the influence of thermal properties of conventional and alternative building envelope materials on the air conditioning cooling load for a residential building</i>' in the International conference on 'Make in India' New Technologies, New Paradigms held at School of Engineering and Technology, Jagran Lake City University, Bhopal on 28th January 2016.</p> <p>2. Presented paper on Title '<i>An investigation of the potential for bioclimatic passive cooling and heating strategies for a composite Indian climate using a newly developed bio climatic analysis tool</i>' in ICSBE-2017 (International Conference on Sustainable Built Environment-2017), Department of Architecture and Planning, IIT Roorkee, Uttarakhand, India on 3rd Feb-2017.</p> <p>3. Presented paper on title '<i>Development of bioclimatic passive design strategies for a composite Indian climate using a newly developed climate analysis tool</i>' in the 33rd International conference on PLEA (Passive and Low Energy Architecture) 2017-3rd-5th July-2017, Edinburgh, U.K.</p> <p>PLEA Conference Proceedings 2017 - Theme: Passive & Climate design. Volume-III, Page No: 4117-4124.</p> <p>4. Presented paper on title '<i>Investigation of the implications of future bioclimatic potential on annual heating and cooling load in residential buildings in India</i>' in the 34th International conference on PLEA (Passive and Low Energy Architecture) 2018-10th-12th December-2018, Hong Kong, China.</p> <p>PLEA Conference Proceedings 2018 - Theme: Science and Technology. Volume-I, Page No: 176-182.</p>
	<p>International Journals</p>	<p>1. Published paper on title '<i>Embodied Energy Assessment and Comparisons for a Residential building Using Conventional and Alternative Materials in Indian Context</i>' in Journal of The Institution of Engineers (India): Series A, SPRINGER, India.</p> <p>doi: 10.1007/s40030-014-0075-x</p> <p>ISSN No: 2250-2149 (Impact Factor: 0.11)</p> <p>2. Published paper on title '<i>A bioclimatic analysis</i></p>

	<p><i>tool for investigation of the potential of passive cooling and heating strategies in a composite Indian climate' in Building and Environment. (2017), ELSEVIER SCIENCE, U.K.</i></p> <p>Volume 123, Pages 469-493, July 2017.</p> <p>doi:10.1016/j.buildenv.2017.07.023</p> <p>ISSN 0360-1323 Impact Factor: 5.22 (5 Yr.)</p> <p>3. Published paper on title '<i>A bioclimatic approach to develop spatial zoning maps for comfort, passive heating and cooling strategies within a composite zone of India</i>' in Building and Environment. (2018). ELSEVIER SCIENCE, U.K.</p> <p>Volume 128, Pages 190-215, January 2018.</p> <p>https://doi.org/10.1016/j.buildenv.2017.11.029</p> <p>ISSN 0360-1323 Impact Factor: 5.22 (5 Yr.)</p>
TRANINGS/WORKSHOPS/ SUMMER SCHOOL ATTENDED	<ol style="list-style-type: none"> 1. Training workshop on 'Cost effective building materials and construction techniques' at Samrat Ashok Technological Institute (SATI), Vidisha, M.P. on 2nd-14 August 2010. 2. National Conference on 'Sustainable and durable options in construction of Rigid pavements at Rajiv Gandhi Technological University, Bhopal, M.P. (sponsored by AICTE, New Delhi) on 22nd October 2010. 3. National conference on 'Quality control in construction of Cement concrete roads' at RGPV Bhopal. Sponsored by AICTE, New Delhi, ACC limited and Indian Concrete Institute, Bhopal Chapter on 10th September 2011. 4. All India Seminar on 'Blended Cements in the Sustainable Development of Cement Industry at Institution of Engineers, MPSC, Bhopal chapter on 26th-27th November 2011. 5. Training Programme on 'Building Maintenance, water proofing and general repairs Organized by BMTPC, New Delhi (Building Materials and Technology Promotion Council) and Dr. FIXIT INSTITUTE at : Hotel Ashok Lake view, Shyamla Hills, Bhopal on 16th – 17th March 2012. 6. Workshop on '<i>Market scenario in Built Environment-real estate, construction & infrastructure</i>' Organized by RICS school of Built Environment, Amity University, Noida on 10th October 2013. 7. Workshop on '<i>Physics of passive House design</i>' Held in Department of Energy, MANIT, Bhopal on 24th-25th December 2014. 8. Workshop on '<i>Basic services for urban poor</i>' Conducted by

	<p>Department of Architecture and Planning MANIT, Bhopal 26th November 2015.</p> <p>9. Three Day GRIHA workshop on 11th – 13th April 2017 .</p> <p>10. Summer school on 'Sustainable Habitat'- Title-<i>Capacity building for climate change adaptation and mitigation</i> at Department of Architecture and Planning, VNIT, Nagpur on 25th - 30th June 2018.</p> <p>11. 5 day FDP on 'Integrative approach towards Pedagogy of the Design Studio' held at School of Architecture, on 06-Jan to 10-Jan-2020 at M.S. Ramaiah Institute of Technology, Bengaluru.</p>
REVIEWER FOR INTERNATIONAL JOURNAL	<p>As a part of the peer review process, I have also reviewed the following papers for 3 journals in Elsevier.</p> <p>1. Balance point temperature for heating as a function of glazing orientation and room time constant.</p> <p>Authors: Verbai Z, Csáky I, Kalmár F <i>Energy and Buildings, Elsevier vol. 135 (2017) : pp 1-9.</i></p> <p>2. Impact of building characteristics and occupants' behaviour on the electricity consumption of households in Abu Dhabi (UAE).</p> <p>Authors: Giusti, L., and M. Almoosawi. <i>Energy and Buildings, Elsevier vol. 151 (2017): pp 534-547.</i></p> <p>3. Analysis Tool for Bioclimatic Design of Urban Settlements in Madagascar.</p> <p>Authors: Attia, Shady, Théo Lacombe, Hery Tiana Rakotondramiarana, François Garde, and GholamReza Roshan. <i>Sustainable Cities and Society, Elsevier, Vol. 45 (2019): pp 8-24.</i></p> <p>4. Evaluation of passive cooling methods to improve microclimate for natural ventilation of a house during summer.</p> <p>Authors: Del Rio, Maria Alejandra, Takashi Asawa, Yukari Hirayama, Rihito Sato, and Isamu Ohta. Vol. 149 (2019): pp 275-287. <i>Building and Environment, Elsevier, U.K.</i></p>
Skills	<p>Software</p> <ul style="list-style-type: none"> • Autocad • REVIT • 3DS Max • Adobe Photoshop • ECOTECH-Analysis-2011 (Building energy modeling software) • DESIGNBUILDER 5.0 (Energyplus) (Building energy modeling software)
Professional membership	<p>Registered with Council of Architecture (COA) Membership no: CA/1999/24889 (Renewed till 31st Dec-2026)</p>
Academic Identity	<p>Google scholar id: https://scholar.google.co.in/citations?user=JM5ZOnYAAAAJ&hl=en Orchid Id: https://orcid.org/0000-0002-2772-5234 Scopus Id: 57195101222</p>