



Personal Information

Address for Correspondence

Dr. LOKESH B. PARADESHI.
#3031, "PANDURANG KRUPA"
AT PO : CHIDANBAR NAGAR
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ST: KARNATAKA
PIN: 591126

Telephone

+91 7483 639 156
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E-Mail

lokeshpb@gmail.com

Date of Birth

February 10, 1984

Nationality

Indian

Languages Known

Kannada
English
Hindi
Marathi

EDUCATION

2013 – 2018 PhD, Mechanical Engineering, National Institute of Technology, Calicut

- Thesis Supervisor **Dr. S. Jayaraj**
- Performance Investigation of Eco-Friendly refrigerants on Solar Assisted Heat Pump systems.

2005 – 2007 M.Tech, Visvesvaraya Technological University, Belgaum

- Specialization : Energy systems Engineering
- Grade: First class with Distinction (**83.85%**)
- Experimental, Computational and diagnostic study of Fluid Flow analysis in a Horton Sphere
- Thesis Supervisor Dr. P.G.Tiwari and Dr.N.K.S.Rajan (**IISc Bangalore**)

2001 – 2005 B.E, Visvesvaraya Technological University, Belgaum

- Specialization : Mechanical Engineering
- Grade: First class with Distinction (**71.83%**)
- Design and Fabrication of Injection molding tool
- Project was sponsored by Kiran Engineering Indistrise, Dharawad

PROFESSIONAL EXPERIENCE

**2020 – Till Date RV Institute of Technology and Management Bangalore
Assistant Professor**

- **Subject Taught:** Basic and Applied Thermodynamics and Elements of Mechanical engineering, Energy Engineering, Energy and Environment, Renewable Energy....etc
- Conducting lectures and preparing the material for students
- Participating in campus events
- Coordinated departmental activities

**2020 Jain College of Engineering and Technology, Hubballi
Assistant Professor**

- **Subject Taught:** Basic and Applied Thermodynamics and Elements of Mechanical engineering
- Conducting lectures and preparing the material for students
- Participating in campus events
- Coordinated departmental activities

**2013 – 2018 National Institute of Technology Calicut
Research Scholar**

- Teaching assistant for undergraduate and postgraduate students
- Preparation and demonstration of practical sessions
- Ongoing supervision in the laboratory
- Conducting and grading of assignments
- Departmental academic activities.



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PROFESSIONAL EXPERIENCE

2012 – 2013 **SDM College of Engineering and Technology, Dharwad**
Assistant Professor

- Subject Taught :Fluid Mechanics, Energy Engg, Heat and Mass transfer
- Conducting lectures and preparing the material for students
- Participating in campus events
- Coordinated cultural activities

2011 – 2012 **Shaik College of Engineering and Technology, Belgaum**
Assistant Professor

- Subject Taught: Basic Thermodynamics, Management & Entrepreneurship
- Planning, evaluating the course materials and methods of instruction
- Provide guidance to the students for developing their careers

PROFESSIONAL EXPERIENCE

2010 – 2011 **Wipro Technologies, Bengaluru**
CFD-Project Engineer

- To study the inputs for pre-feasibility report
- Timely Escalation / Status updates / reports Status updates of calls
- Problem solving , Ability to work out solutions independently
- Timely Response to customer requests

2008 – 2010 **Emerson Network Power India Ltd –Mumbai, India.**
Assistant Manager (CFD-Thermal Management Division)

- Design, Analysis and Experimentation of cooling components
- Thermal simulation for electronic cooling systems
- Selection of fans for different applications
- Standardization of mechanical specification used in the Electrical Systems

2008 – 2008 **Mindarika Private Limited. Pune**
Design Engineer

- Preparation of Product layout, Parts specification, BOM
- Interpret and analyses test data and make revision of products
- Report status of projects, engineering change orders and change requests

PROFESSIONAL SKILLS

- Design, Modeling & Analysis tools: MATLAB, NX-6, Advanced Simulation, Stream-8, ANSYS Ice-Pack 12.1, Flo-therm ANSYS CFX10.1, Auto CAD, Por-E, Solide Edge
- General Software : Windows Microsoft office, LATEX



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ACHIVEMENTS/AWARDS

- Half Time Research Assistance (HTRA) during PhD program at NIT-C
- Received Feather in my cap award in **Wipro Technologies**
- M.Tech **Second rank** to V.T.U. University for the year 2007-2008
- Secured First class with Distinction in BE (Mechanical) for 2001 – 2005

LECTURES PRESENTED

- "Solar Energy Utilization and Its Application" during One Day National Workshop on Renewable Energy Technologies at PSV College of Engineering & Technology, Krishnagiri on August 22, 2015.

PUBLICATIONS

Patent Applied

- 'A Hydrocarbon Based Refrigerant Mixture for a Solar Assisted Heat Pump System' Patent application no. 201941018629, Dated 09/05/2019.

Journal

- **L. Paradeshi**, M. Srinivas, and S. Jayaraj, Thermodynamic Analysis of a Direct Expansion Solar Assisted Heat Pump System Working with R290 as Drop in Substitute for R22. Journal of Thermal Analysis and Calorimetry, Vol. 136, No. 1, pp. 63-78, 2019. **(SCI, IF= 2.471)**
- **L. Paradeshi**, M. Srinivas, and S. Jayaraj, Performance of Hydrocarbon Mixture in a Direct Expansion Solar Assisted Heat Pump System. Heat and Mass Transfer, Vol. 55, No. 4, pp. 965-977, 2019. **(SCI, IF= 1.233)**
- **L. Paradeshi**, M. Mohanraj, M. Srinivas, and S. Jayaraj, Exergy Analysis of Direct Expansion Solar Assisted Heat Pumps Working with R22 and R433A. Journal of Thermal Ana and Calorimetry, Vol. 134, No. 2, pp. 2223-2237, 2018. **(SCI, IF= 2.471)**
- **L. Paradeshi**, M. Srinivas and S. Jayaraj, Performance studies of R433A in a direct expansion solar-assisted heat pump, International Journal of Ambient Energy, DOI: 10.1080/01430750.2018.1451369, 2018. **(Scopus Indexed)**
- **L. Paradeshi**, M Srinivas, and S Jayaraj, Assessment of R290 as a Possible Alternative to R22 in Direct Expansion Solar Assisted Heat Pumps. Journal of Thermal Science, Vol. 21, No. 2, pp. 369-378, 2017. **(SCI, IF= 1.541)**
- **L. Paradeshi**, M. Srinivas, and S. Jayaraj, Experimental Studies on a Solar Assisted Heat Pump Working with R22: An Exergy Point of View, Journal of Advanced Engineering Research, Vol. 4, No. 2, pp. 94-98, 2017.
- **L. Paradeshi**, M. Srinivas, and S. Jayaraj, Parametric Studies of a Simple Direct Expansion Solar Assisted Heat Pump Operating in a Hot and Humid Environment, Energy Procedia, Vol. 90, pp. 636-644, 2016. **(Scopus Indexed)**

CURRICULUM VITAE LOKESH B. PARADESHI



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- K. V. Kumar, **L. Paradeshi**, M. Srinivas, and S. Jayaraj, Parametric Studies of a Simple Direct Expansion Solar Assisted Heat Pump Using ANN and GA, Energy Procedia, Vol. 90, pp. 625-635, 2016. (**Scopus Indexed**)
- Jayaraj S, **Lokesh P**, Belyayev Ye, and Kaltayev, Analysis of a Direct Expansion Solar Assisted Heat Pump Suitable for Comfort Applications, Journal of Computational Technologies, Vol. 20, pp. 128-138, 2015. (**Scopus Indexed**)
- **L. Paradeshi**, M. Srinivas, S. Jayaraj, Experimental Studies on Direct Expansion Solar Assisted Heat Pump: An Energy Point View, Journal of Advanced Engineering Research, Vol. 3, No. 1, pp. 116-123, 2016.
- R L Anantha, S Rajakumar, B Deepanraj, **L Paradeshi** Study on performance and emission characteristics of a single cylinder diesel engine using exhaust gas recirculation Thermal science 21 (suppl. 2), 435-441. (**SCI, IF= 1.541**)

BOOK CHAPTER

- Vinoth Kumar K., **Paradeshi L**, Srinivas M., Jayaraj S. Optimum Composition of Alternative Refrigerant Mixture for Direct Expansion Solar-Assisted Heat Pump Using ANN and GA. In: Chandra L., Dixit A. (eds) Concentrated Solar Thermal Energy Technologies. Springer Proceedings in Energy. Springer, Singapore. https://doi.org/10.1007/978-981-10-4576-9_18 (pp: 199-209, 2018).

PUBLICATIONS

Conferences (International)

- **L Paradeshi**, M Srinivas, and S Jayaraj, Thermodynamic Analysis of a Direct Expansion Solar Assisted Heat Pump System Working with R290 as Drop in Substitute for R22, International Conference cum Exhibition on Thermal Analysis and Energy Systems (ICTAES 2018) April 12-13 2018.
- **L Paradeshi**, M Srinivas, and S Jayaraj, Numerical Simulation on thermodynamic performance comparison of a solar assisted heat pump working with R22 and R290, International Conference cum exhibition on Renewable & Sustainable Energy (ICRSE 2017), Hindusthan College of Engineering and Technology, Coimbatore, April 12-13 2017.
- **L Paradeshi**, M Srinivas., S Jayaraj., Parametric Studies of a Simple Direct Expansion Solar Assisted Heat Pump Operating in a Hot and Humid Environment, International Conference on Advances in Energy Research (ICAER 2015), Indian Institute of Technology Bombay India, December 15-17, 2015, pp.1943-1950.
- K. Vinothkumar., **L Paradeshi**, M Srinivas., S Jayaraj., Application of Artificial Neural Network and Genetic Algorithm for Direct Expansion Solar Assisted Heat Pump, International Conference on Advances in Energy Research (ICAER 2015), Indian Institute of Technology Bombay India, December 15-17, 2015, pp.1935-1942.



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PUBLICATIONS

Conferences (National)

- **L Paradeshi,** M Srinivas., S Jayaraj., Experimental Studies on a Solar assisted Heat Pump Working with R22: an exergy point of view, National Conference on Energy, Economy and Environment, **National Institute of Technology Calicut India**, December 16-17, 2016, pp.104-107. 17 December 2016.
- **L. Paradeshi,** K. V Kumar, M. Srinivas., S. Jayaraj., Energy performance assessment of a simple direct expansion solar assisted heat pump under hot and humid condition, National conference on Solar Thermal Energy Technologies, **Indian Institute of Technology Jodhpur India**, Feb 22-24, 2016 (Paper Code: NCSTET38).
- K. Vinothkumar., **L. Paradeshi,** M. Srinivas., S. Jayaraj., Optimum Composition of Alternative Refrigerant Mixture for Direct Expansion Solar Assisted Heat Pump Using ANN and GA , National conference on Solar Thermal Energy Technologies, **Indian Institute of Technology Jodhpur India**, Feb 22-24, 2016 (Paper Code: NCSTET37).
- **L Paradeshi,** S Jayaraj., Some Investigation with a Direct Expansion Solar Assisted Heat Pump under Humid Weather Condition, Workshop on Frontier Energy Research with Industry Academia Partnership (FERIAP-2015), **Indian Institute of Technology Guwahati India**, March 20-21, 2015, pp.18-20.
- P. Lawrence., G. Arunkumar., B. Deepanraj., **P.B. Lokesh,** Evaluation of Diesel Engine Performance Using Cashew Nut Shell Oil Blends, National Conference on Latest Inventions in Mechanical Engineering, Kalaivani College of Technology, **Coimbatore, India** March 20-21, 2014, pp.12-16.
- **Lokesh B. Paradeshi,** P.G.Tewari., N.K.S Rajan., Flow Visualization of Horton Sphere Using a CFD Tool, International Conference on Mechanical, Automotive and Materials Engineering (ICMAME-2013), **Mangalore, India**.(Paper Code : MAME_17MARMAN_004).

WORKSHOPS AND SEMINAR PARTICIPATED

- One-week GIAN course on **Advances in combustion modelling** organized by Department of Mechanical Engineering NIT Calicut from 04 to 09th January, 2017.
- National workshop on **MATLAB AND ITS APPLICATION (MIA 2017)** organized by Department of Electrical Engineering NIT Calicut on 7th to 9th March, 2017.
- MHRD-TEQIP- II sponsored workshop on **Research writing: Technical and Language Aspects** organized by Department of Mechanical Engineering NIT Calicut on 12th February, 2017.
- Two-week GIAN course on **Advances in Renewable Energy** organized by Department of Mechanical Engineering NIT Calicut from 02 to 13th January, 2017.

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- TEQIP- II sponsored short term course on **Recent Trends in Solar Energy Technology** conducted by **IIT Delhi**, from 16th to 23rd June, 2015.
- One day workshop on **Technology Enhanced learning (TEL)** organized by Department of Mechanical Engineering SDM college of engineering and technology **Dharwad** on 17th June 2013.
- **VTU and Bosch Rexroth** Centre sponsored training programme on **Proportional control application** integrated with motion logic control systems organized by VTU Bosch Rexroth Centre of competence in Automation Technology, **Mysore** from 28th to 29th June 2013.
- AICTE-MHRD sponsored faculty development programme on **Management research methodology** organized by the Department of school of management studies, **NIT Calicut**, from 10th to 15th June, 2013.
- Two-week ISTE workshop on **Engineering Thermodynamics** in Mechanical Engineering conducted by **IIT Bombay** from 11th to 21th December, 2012. This workshop was held under the National Mission on Education through ICT (MHRD).
- VTU sponsored workshop on **Instrumentation for Automation** conducted by BVB college of Engg and Tech, **Hubli** from 24th to 25th March 2006.
-

REFERENCES

Dr. S. Jayaraj

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Mechanical Engineering Department
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Mechanical Engineering Department
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Mobile: +91- 7736532985

Mr. P. V. Manu

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Mechanical Engineering Department
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Mobile: +91- 9447392531

Dr. P. G. Tewari

Professor and Head
Mechanical Engineering Department
B.V.B.College of Engg & Tech
Vidya Nagar, Hubli-580031
E-mail: pg_tewari@yahoo.com,
Mobile: +91- 9845903330

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Place: Bangalore
Date: 30th May 2024

(LOKESH B. PARADESHI)