

## NAME AND DESIGNATION : Dr. Madhu K S

Associate Professor

Department of Aeronautical Engineering

S.J.C. Institute of Technology,

P.B. 20, B B Road,

Chickballapur-562101, Karnataka Email:madhuroyalreddy@gmail.com

## DATE OF BIRTH : 11-05-1984

## RESIDENTIAL ADDRESS : T N Muthuraju building, 1st floor,

## Shanthinagar (Prashanth Nager) No.1,22nd Ward, block no.25,DEVANAHALLI, KARNATAKA 562110, India

1. **EMPLOYMENT RECORD (Starting from present position) : Total Experience: 14.7 Years**

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| **UNIVERSITY/COLLEGE** | **DESIGNATION** | **DURATION** | **PERIOD** |
| Rajarajeswari College of Engineering, Bangalore | Assistant Professor | 13.5 | August 2010 to  January -2024 |
| Rajarajeswari College of Engineering, Bangalore | Associate Professor | 0.5 | February 2024 to August 2024 |
| SJCIT, Chickballapur | Associate Professor | 0.3 | September 2024- till date |

# EDUCATIONALQUALIFICATION:

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| **Degree** | **Year** | **Specialization** | **Institution / University** |
| Ph.D | 2024 | Mechanical Engineering | RajaRajeswari College of Engineering, Bangalore /VTU -Belgaum |
| M.Tech | 2010 | Thermal Power Engineering | Siddaganga Institute of Technology, Tumkur/VTU -Belgaum |
| B.E | 2008 | Mechanical Engineering | Dr.Ambedkar Institute of Technology, Bangalore/VTU -Belgaum |
| Diploma | 2004 | Mechanical Engineering | P.V.P.Polytechnic, Bangalore/Board of Technical education. |

# TRAININGPROGRAMMES/SEMINARS/CONFERENCESATTENDED:

* Participated in Vijay Zaveri center for composites sponsored (ISAMPE) on “FRP Composite Fabrication Techniques” at Dr. AIT, Bangalore, held during 15th to 20th September 2003.
* Participated in the AICTE sponsored Two weeks staff Development Programme”Emerging Trends in Energy Sources” at Ghousia college of engineering, Ramanagaram, held during 13th to 24th June 2011.
* Participated in the vision group on science and technology, government of Karnataka sponsored Faculty Development Programme”Emerging Trends in Energy Sources” organized by VTU Belgaum,Dr.AIT and HAL-Management Academy, held during 4th to 6th March 2011.
* Participated in the two days faculty Development Programme on “Enhancing Life Skills” at Rajarajeswari Collage of engineering, Bangalore on 27th &28th January 2012.
* Participated in the three days faculty Development Programme on “Innovative Teaching Practices” at Rajarajeswari Collage of engineering, Bangalore on 24th ,25th &26th July 2012.
* Participated in the one day National Workshop on “Computational Fluid Dynamics-2012” at ACS Collage of Engineering, Bangalore on 28th September 2012.
* Participated in the National Mission on Education through ICT sponsored Two weeks ISTE Workshop on ”Engineering Thermodynamics” at BMS college of engineering, Bangalore, held during 11th December 2012 to 21st December 2012.
* Presented in the National Level Students technical symposium on ”Venturi Design-An agriculture Based Case Study” at Don Bosco Institute of Technology, Bangalore, held during 12th May 2015.
* Participated in the one day International National Workshop on “Nanostructured, smart and electronic materials” at Rajarajeswari Collage of engineering, Bangalore 8th January 2016.
* Participated in the three-day workshop on “Research Methodology & Latex” organized by VTU e-Learning centre, Mysore from 20-22th December 2016 at Raja Rajeswari College of engineering, bengaluru.
* K S Madhu, Participated in the 12 weeks online certification workshop on “Conduction and Convection Heat Transfer” organized by NPTEL from JAN-APR 2019 and Scored 68%.Roll No.NPTEL19ME06S31161528.
* Participated in the two day National Workshop on “Information literacy tools, technology and educational e-Resources for academic Excellence” at DBIT, Bangalore 1st October 2019.
* K S Madhu participated and got certificate of Appreciation for successful completion of national level online Quiz on “I C Engine and Gas Turbine” held on 26th May 2020, organized by AISSMS College of Engineering, Pune. Percentage Score 100%.
* K S Madhu participated in the Webinar on “Process Simulation, Optimisation and Additive Manufacturing for Reengineering of Automotive Modules”, held on 11th May - 2020, organized by the NAFEMS in association with ALTAIR.
* K S Madhu participated in the Webinar on “Organize and Administer Online Proctored Subjective Exams”, held on 14th May - 2020, organized by the Wheebox measuring worlds talent and skill potential.
* K S Madhu participated in the online national level FDP on “Decoding examination During and Post COVID 19”, held on 8th May - 2020, organized by skill slate and powered by Zovy studios, pune.
* K S Madhu participated and got certificate of Appreciation for excellent performance in “COVID-19 Pandemic General Awareness Quiz Conducted to Spread Understanding about the Corona Virus Disease”, on 20 and 21 May 2020. Organized by Roever college of engineering & Technology, Elambalur, Perambalur-621220.
* K S Madhu, Participated in the 12 weeks online certification workshop on “I C Engine and Gas Turbine” organized by NPTEL from JAN-APR 2020 and Scored 84%.
* K S Madhu participated in the Webinar on “Tailor Made Nano-Materials for Applications in sensors, LED’s & Water Remediation”, held on 5th June - 2020, organized by the ACS College of Engineering and Rajarajeswari College of Engineering.
* K S Madhu participated in the Webinar on “Automotive and Spare Parts”, held on 1st Augest - 2020, organized by the ACS College of Engineering and Rajarajeswari College of Engineering.
* MADHU K S has participated in 10 Hours of Faculty Development Program on Essentials of Solid Edge(Online Live FDP) conducted by ICT Academy on 14th Dec 2020 to 18th Dec 2020, C.No: 020-194826.
* K S Madhu has participated in National Symposium (Online) on “National Education Policy-2020 and Technical Education” from 17th Dec 2020 to 19th Dec 2020 organized by Dr. Ambedkar Institute of Technology, Bengaluru-74.
* K S Madhu has successfully completed the AICTE-ISTE approved orientation programme on “Thermal Engineering”, held on 17th March 2021-23rd March 2021 organised by Kalpataru Instate of Technology, Tiptur, Karnataka.
* K S Madhu participated in the Webinar on “Intellectual Property Rights”, held on 23rd December - 2020, organized by the Amruta Institute of Engineering & Management Sciences, Bidadi - 562109.
* K S Madhu participated in the Webinar on “Innovative Research Ecosystem and Publishing Papers in High Impact Journals”, held on 26th March 2021, Research and Innovation Centre and Rajarajeswari Institution Innovation Council (RRIIC) of Rajarajeswari College of Engineering.
* Dr.K S Madhu participated in 5 days FDP on “Effective Curriculum Design and Evaluation Process for Autonomy” held on 15th-19th May 2024, organizing in association with Internal Quality Assessment Cell of RajaRajeswari College of Engineering, Bangalore.
* K S Madhu participated in the FDP on “Lean Manufacturing in industry 4.0 Scenario”, held on 24th-28th January 2022, AICTE Training and Learning (ATAL) Academy of Rajarajeswari College of Engineering, Bangalore.
* K S Madhu participated in the AICTE–VTU Joint Teachers Training Programme on “Smart Materials & Systems”, held 29th May to 02nd June 2023, Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101.
* Dr.K S Madhu, participation in the 2nd International 5-Day Faculty Development Program on "Sustainability and Research in Modern Mechanical Engineering," held from September 23rd to 27th, 2024, organized by the Department of Mechanical Engineering at Madanapalle Institute of Technology & Science, Andhra Pradesh, India.
* Dr.K S Madhu, Successfully completing the 12 weeks online certification workshop on “Applied Thermodynamics in” organized by **NPTEL** from Jun-October 2024 and Scored 67%.Roll No.NPTEL24ME103S552806818.

# PUBLICATIONS

* K.S.Madhu, “Design and Development of Multi-Zone Conveyor Curing Furnace for FRP Composites”, at International Conference AMMMT-2010 held at Siddaganga Institute of Technology, Tumkur during 18th & 19th November 2010.
* K.S.Madhu, Manjunath.S, Shashidhara.M.R, Sriharsha Kumar ‘Design Optimization of Automotive Emission System Using Computational Fluid Dynamics” at national conference on ETME’12 held at Rajarajeswari College of Engineering, Bangalore during 24th & 25th February 2012.
* K.S.Madhu, “Intelligent Two Axis Solar Tracking System with Mechanical Application” at International Journal of Scientific & Research Volume 3, Issu 9, September-2012.
* K.S.Madhu “Design and Development of Multi-Zone Conveyor Curing Furnace for FRP Composites” at International Journal of Scientific & Research Volume 3, Issu 9, September-2012.
* K.S.Madhu, “Simulation of Humanoid Locomotion Robot in Unknown Terrains” at International Mat journals , May-2016.
* K.S.Madhu, “Design, Analysis (CFD) and Development of Fertilizers Injection System for Irrigation” at International Journal of Innovative Research in Science, Engineering and Technology Volume 5, Issu 4, april-2016.
* K S Madhu, “International Journal, Thermal Boundary Layer Flow Effectiveness Enhancement of gas turbine blade internal cooling using CFD” at International journal of creative research thoughts (IJCRT) registration ID.no. 190258 paper id: IJCRT1892969, held during Aril 2018.
* Madhu K S, “Experimental Investigation of Heat Transfer In Helical Coil Heat Exchanger By Varying Angles With CFD Analysis” International Journal Of Research And Analytical Reviews E-ISSN 2348-1269,P-ISSN 2349-5138 UGC approved , paper ID IJRAR1AM913, held during June 2019.
* K S Madhu, “Experimental Research on Heat Transfer Characteristics of Helical Coil Heat Exchanger with Varying Pitch for laminar Fluid Flow”, International Journal of Recent Technology and Engineering (IJRTE)’, ISSN: 2277-3878 (Online), Volume-8 Issue-3, and September 2019. Page No.: 315-320. Paper id: C4149098319, Scopus index Source record id: 21100889873.
* Madhu K S, “Development of Automatic Feeder for Sericulture” International Conference on Emerging Trends in Engineering, Management and Technology [ICETEMT 2022] held at Rajarajeswari College of Engineering, Bangalore during 21st & 22th June 2022.
* Madhu K S, “Experimental Study on Heat Transfer Characteristics of Helical Coil Heat Exchanger with Varying Pipe Diameter for Different Flow Using Nano Fluid” International Conference on Emerging Trends in Engineering, Management and Technology [ICETEMT 2022] held at Rajarajeswari College of Engineering, Bangalore during 21st & 22th June 2022.
* A Madhu K S, research article title “Experimental Study on the effect of Heat Transfer in Heat Exchanger with varying Helical Coil Pitch and Inclination angle using TiO 2 –Water Nanofluid”, Published in the International Journal of Creative Research Thoughts , with Vol. No.11 Issue No.7 Page No. 2320-2882 impact factor 7.97, ISSN: 2320-2882 and Year of Publication July 2023 Published by  IJCRT withhttp://doi.one/10.1729/Journal.35557 . UGC Approved Journal No.: 49023(18).
* A Madhu K S, research article title “Heat Transfer and Pressure Drop variation in Helical Coil Heat Exchanger with varying pitch using Water-based TiO2 Nanofluid ”, published in the European Chemical Built-in Journal’, with Vol. No.12 Issue No.7 Page No. 2300-2308 impact factor 3.71, ISSN:2073-5346 and Year of Publication 2023 Published by Eurchembul with DOI: 10 .48047/ecb/2023.12.7.179.Q3 Journal
* A Madhu K S, research article title “Experimental Study on the Effect of TiO2 –Water Nanofluid on Heat Transfer and Pressure Drop in Heat Exchanger With Varying Helical Coil Diameter”, published in the Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, with Vol. No.107 Issue No.2 Page No. 50-67, ISSN: 2289-7879 and Year of Publication September 2023 Published by semarak Ilmu publishing with DOI: https://doi.org/10.37934/arfmts.107.2.5067. Q3 Journal

# AREASOF INTEREST:

* Thermal Design Analysis
* Applied Thermodynamics
* Heat Transfer
* Turbomacines
* Computer Aided Engineering Drawing /Machine Drawing.

# ADDITIONALRESPONSIBILITIESTOTHEDEPARTMENT/COLLEGE

* Exam Cell coordinator at RajaRajeswari College of Engineering, Bangalore.
* Skill lab Coordinator, Workshop organizing Coordinator for CFD, Mechtronics and I-Robotics at Rajarajeswari College of Engineering, Bangalore.
* Coordinator for 3 National Conference, 12 Industrial visits, 10 Seminars, 6 FDP’s, 4 Workshops at RajaRajeswari College of Engineering, Bangalore.
* Time Table Officer (TTO)
* Laboratory In-charge for Energy Conversion Engineering and Heat & Mass Transfer.
* Class Teacher In-Charge, Test coordinator and also preparing department files.
* Coordinator for NAAC and NBA
* Exam Cell coordinator
* VTU Digital Valuation center coordinator at Rajarajeswari College of Engineering, Bangalore.

## Date: 04-11-2024

**Place:** Chickballapur (**Dr.MADHU K S)**