



## RESUME

**Dr. Raghavendra Reddy N V**

Associate Professor

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Dept. of Mechanical Engineering

RV Institute of Technology and Management

JP Nagar 8<sup>th</sup> Phase, Bengaluru- 560076

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### Qualifications:

- **Ph. D: VTU, Belagavi, 2019**  
**Topic: Computational Fluid Dynamics Simulation of Compression Ignition engine processes.**
- **M.Tech in Thermal Engineering in NITK Surathkal, 2008**
- **B.E in Mechanical Engineering from Govt BDT College of Engineering, Davanagere. University of Mysore, 1993**

### Summary of Skills:

- Excellent teaching experience and abilities to train teachers to do their best
- Expert in preparing effective college curriculum and managing student relations
- Super communication, interpersonal, and computer skills

### Experience: 29 Years in Teaching and Industry

**Nineteen** years in teaching in Engineering College under VTU

**Ten** years in Manufacturing of Special purpose machines, Jigs, Fixtures, Automobile parts, etc.

### Board of Studies / Examination Member:

**BOS:** BOS Member, Dept of I&PE, PESCE(Autonomous), Madya VTU Nominee, 12.08.2024 – 11.08.2027

**BOE:** Dept. of Automobile Engg, (Composite Board) 2024-25  
VTU (Visvesvaraya Technological University),  
Belgaum. Karnataka

Dept. of IP/IM/MA (Composite Board), 2019-20  
VTU (Visvesvaraya Technological University),  
Belgaum. Karnataka

Dept. of Automobile Engg, 2016-17  
VTU (Visvesvaraya Technological University),  
Belgaum. Karnataka

Dept. of Automobile Engg, 2011-12  
VTU (Visvesvaraya Technological University),  
Belgaum. Karnataka

Dept. of Automobile Engg, 2010-11  
PES College of Engineering (Autonomous),  
Mandya. Karnataka

Member, Indian Society for Technical Education (ISTE)

**NCC:** Care Taker (ANO), NCC SJMIT, Chitradurga.  
Part A, 3 KAR ENGR COY. Davanagere.

## **Papers Published and Presented**

### **International Journal:**

1. S. Sreejith, Asisa Kumar Panigrahy, J. Ajayan, J. M. Radhika, N. V, **Raghavendra Reddy**, N. V. Uma Reddy, S. Umamaheswaran “IoT sensor-based systems in real-time monitoring of health and environment: a review” *Journal of the Korean Physical Society*, Online ISSN 1976-8524, Print ISSN 0374-4884, SPRINGER NATURE Link 19.05.2025, <https://doi.org/10.1007/s40042-025-01378-7>
2. S. Sreejith, J. Ajayan, N. V. Uma Reddy, M Manikandan, S Umamaheswaran, N. V. **Raghavendra Reddy** “Recent advancements in high efficiency deep blue organic light emitting diodes” *Micro and Nano structures*, 200 (2025) 208101 Elsevier 08.02.2025 Electronic ISBN: <https://doi.org/10.1016/j.micrna.2025.208101>
3. S. Sreejith, J. Ajayan, N. V. Uma Reddy, J. M. Radhika, Jimsha K. Mathew, B. Sivasankari, N. V. **Raghavendra Reddy** “Fundamentals of Computational Design in Nano Materials” *Advanced Nanomaterials for Energy Storage Devices*, **Book Chapter:** PP 25-40: SPRINGER NATURE Link 13.11.2024, [https://link.springer.com/chapter/10.1007/978-3-031-74730-4\\_2](https://link.springer.com/chapter/10.1007/978-3-031-74730-4_2)
4. S. Gunasekar, G. Pius Agbulu, G. Joselin Retna Kumar, **Raghavendra Reddy N V**, Y Dileep Kumar, R. Ramesh Prasad, “A Hybrid Decision-Tree and ANN Learning Model for Air Contamination Forecasting” *IEEE Xplore*, 13.09.2024, DOI: 10.1109/ICSTSN61422.2024.10670902, Electronic ISBN:979-8-3503-9156-5 <https://ieeexplore.ieee.org/document/10670902>
5. Abdurrashid S. Hassan, Vimala A. Juliet, G. Pius Agbulu, G. Joselin Retna Kumar, **Raghavendra Reddy N V**, S. Gunasekar, “Design and Analysis of Weather Parameters Using MEMS Technology with Suitable Characteristics for Integration into a Single Chip for Environment Monitoring”, *IEEE Xplore*, 13.09.2024, DOI: 10.1109/ICSTSN61422.2024.10671375, Electronic ISBN:979-8-3503-9156-5 <https://ieeexplore.ieee.org/document/10671375>
6. S. Ramesh, B. H. Maruthi Prashanth, Gajanan Anne, Gajanan M. Naik, N V **Raghavendra Reddy**, C. Jagadeesh, Priyaranjan Sharma, and M. Prashanth Pai “Examining the Influence of stacking Sequence on the Mechanical Properties of Hybrid Abaca-Jute Vinyl Ester Composites” *Smart Materials and Manufacturing*

*Technologies for Sustainable Development*, SpringerLink: Layout: T3\_Gray, Book ID: 613414\_1\_En, Book ISBN: 978-3-031-63909-8, Chapter No.: 14, Date: 9 August 2024. [https://doi.org/10.1007/978-3-031-63909-8\\_14](https://doi.org/10.1007/978-3-031-63909-8_14)

7. K Santhosh, Saikumar Shahapur, GN Kumar, KN Ravikumar, N V **Raghavendra Reddy** “Comparison and Feasibility Study of Hexanol/Diesel/Pongamia Biodiesel Blend on Engine Characteristics of a Common Rail Direct Injection Diesel Engine”, SAE Technical Paper, Issue:2023-01-5155, ISSN: 0148-7191, e-ISSN: 2688-3627 DOI: <https://doi.org/10.4271/2023-01-5155>
8. Basavarajappa Sekharappa, Manavendra Gowda, Sajjal B Prakash, **Raghavendra Reddy N V**, Dayananda Kadlebalu Nagappa “Computational study of heat transfer enhancement in double pipe heat exchanger using helical fins”, ICRVITM’23, RVITM Bengaluru, 28-29 November 2023 DOI: 10.1109/IC-RVITM60032.2023.10435115, IEEE Xplore: 21 February 2024
9. Nikhil KV, Justin Raj, Lokesh P, **Raghavendra Reddy N V**, Solaimuthu C, Rudresh Kumar K J, “Experimental thermal performance investigation of Evacuated tube solar collector using nanoparticles Under cold climatic conditions” ICRVITM’23, RVITM Bengaluru, 28-29 November 2023 DOI: 10.1109/IC-RVITM60032.2023.10435098, IEEE Xplore: 21 February 2024
10. Lokesh Paradeshi, Solaimuthu C, **Raghavendra Reddy N V**, Manik Rajangale and Shashank K, A Qualitative Comparative study of Multi-Cylinder Conventional Compression Ignition Engine using Neat Schleichera Oleosa (Kusum) Bio-diesel and Neat Diesel as fuel, American Institute of Physics (AIP)
11. C. Solaimuthu, Lokesh P, Manik Rajangale, **Raghavendra Reddy N V**, Shashank S “A Qualitative Comparative study of Multi-Cylinder Conventional Compression Ignition Engine using Neat Schleichera Oleosa (Kusum) Bio-diesel and Neat Diesel as fuel” (Accepted for Publication in Journal of Physics: Conference Series, IOP Science Publications).
12. **Raghavendra Reddy N V**, Jayashankara B “CFD Simulation of Direct Injection CI Engine with Flat Piston Bowl and W Shape Toroidal Piston Bowl Combustion Process” Journal of Engineering Research and Application [www.ijera.com](http://www.ijera.com) ISSN: 2248-9622, Vol. 8, Issue5 (Part -IV) May 2018, pp 56-61
13. Ramesh B R, **Raghavendra Reddy N V**, Madhu H T, “Design Optimization and Analysis of Moped Silencer Guard”, May 2018 IJIRT| Volume 4, Issue 12| ISSN:2349-6002, [www.ijirt.org](http://www.ijirt.org)
14. **Raghavendra Reddy N V**, Jayashankara B “Study of Omega Shaped Re-Entrant Piston Bowl Geometries on In-Cylinder Flow and Performance in a Direct-Injection Diesel Engine”. 2018 IJCRT | Volume 6, Issue 1 March 2018 | ISSN: 2320-2882, [www.ijpub.org](http://www.ijpub.org).

#### Patents:

1. “IoT-Integrated Solar Street-light Control Device” IPR, Application Number: 471999-001, (published on 01.01.2026)
2. “A heat pipe based evacuated tube solar collector using water based nanofluids” **Application submitted for patent.**
3. “Head rest setup for wheelchair” granted, Design No: 412084-001 CBR No: 205329 dated 30.03.2024. Issue date:25.03.2025
4. “Comfort Guardian Robot for Elderly People” - Design No: 402844-001\_22.12.2023
5. “Mechanical Stopper for constrained deflection” - Design No: 377799-001\_22.01.2023
6. “Performance Improved Heat Pipe for Cold Interface”. Application Number- 202241003800, Journal Number- 05/2022, Journal Date: 04/02/2022

7. “Real-Time Adaptive Traffic Control System Using AI and Vehicle-to-Infrastructure (V2I) Communication”, South Africa Design Patent Application Number 2025/05367, (Filed on 23.06.2025).

#### **Book Published: 01**

1. “Fundamentals of IC Engines” HSRA Publications, ISBN: 978-93-5506-949-8

#### **International Conference:**

1. Pachpute, Sharad, Bittagowdanahalli Manjegowda, Ningegowda, Munirathinam, Anbalagan, Bhaskar N., Nithesh, M. R., Kamesh, Paradeshi, Lokesh, **Reddy N. V., Raghavendra**, Padmanabhan, Sudhakar, J. M., Babu, Jadhav, Dinesh “Effect of Biomass Fuel on Thermal Efficiency of Four Pan Jaggery Plant” ASME 2025 International Mechanical Engineering Congress and Exposition – India, <https://doi.org/10.1115/IMECE-INDIA2025-160726>
2. Nikhil K V, Justin Raj, Deepak M, Prajwal R S, Lokesh P, **Raghavendrareddy N V**, Solaimuthu and Rudresh Kumar K J Presented paper titled “Thermal Performance Investigation of a Parabolic trough Collector Using Solar Evacuated Tube with Nanofluids for Drying Applications” at International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2025) 25–26 June, 2025, organized by National Institute of Technology Warangal, India.
3. Nikhil K V, Justin Raj, Lokesh P, **Raghavendra Reddy N V**, Solaimuttu C, Rudresh Kumar K J, “Experimental Studies of a Parabolic trough Collector Using Solar Evacuated Tube with Nanofluids for Heating Applications”, Fifth International Conference entitled “Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM-2024)” to be held on 12 & 13 December, 2024 at Nitte Meenakshi Institute of Technology, Bangalore. (Accepted for Conference Presentation)
4. Abdurrashid S. Hassan, Vimala A. Juliet, G. Pius Agbulu, G. Joselin Retna Kumar, **Raghavendra Reddy N V**, S Gunasekaran, “Design and Analysis of Weather Parameters Using MEMS Technology with Suitable Characteristics for Integration in to a Single Chip for Environment Monitoring” IEEE International conference on 5 NANO, 27-28 April 2023
5. S Gunasekaran, **Raghavendra Reddy N V**, G. Pius Agbulu, G. Joselin Retna Kumar, Y Dileep Kumar “A Hybrid Decision-Tree and ANN Learning Model for Air Contamination Forecasting”, IEEE International conference on 5 NANO, 27-28 April 2023
6. **Raghavendra Reddy N V**, Jayashankara B, “CFD Simulation of Direct Injection CI Engine Combustion and Optimization of Omega Shape Toroidal Piston Bowl Geometry for Emissions”, (ICAMES-2K20) at PES College of Engineering, Mandya.
7. Basava T, **Raghavendra Reddy N V** “Study of Erosive behavior in Graphite particle reinforced Epoxy glass fiber composites under contact speed at different contact angles on particle”, held at PSG College of Technology, Coimbatore.
8. “Chairperson”, International Conference on Advances in Mechanical Engineering (i-NAME 2K20), at JNNCE, Shivamogga in association with ISTE, New Delhi.
9. “Chairperson”, International Conference on Advances in Materials Research (ICMAR-2019), at Ramaiah University of Applied Sciences association with Catalysis Society of India, Bangalore.

10. “*Study of Erosive behavior in Graphite particle reinforced Epoxy glass fiber composites under contact speed at different contact angles on particle*”, held at PSG College of Technology, Coimbatore.

#### **National Conference:**

1. Gaurav Saikia, Parth Jasu, Pranav Reddy, **Raghavendra Reddy N V** “*Automated Vehicle for Pest Control in Agriculture, National Conference on Digital Technology & Engineering, RVITM on 28th & 29th April 2023*”
2. “*Study of Erosive behavior in Silicon Particle reinforced Epoxy glass fiber composites under contact speed at different contact angles on particle*”, held at SJCE, Mysore.

#### **Research Grants:**

A project on “*Prototype of Hydrogen Combustion Engine*” is funded by Karnataka State Council for Science and Technology (KSCST), GoK, Bengaluru [Ref: 48S\_BE\_3388, Role: COPI, Status: on-going, Budget: **Rs. 7,500**].

#### **NTPEL/Swayam Online Certification Course:**

1. “Fundamentals of Artificial Intelligence”, 12 weeks, 3 Credit course -on going
2. “Introduction to Cyber Security”, 16 weeks, 4 Credit course-12.02.2025.
3. “Introduction to Industry 4.0 and Industrial Internet of Things”. Jan-Apr 2023: 12 weeks course.
4. “Patent Drafting for Beginners”. Jul-Aug 2022: 4 weeks course
5. “Developing Soft Skills and Personality Development”. Aug -Oct 2021

#### **Short term Courses and Webinars:**

- *ATAL Online Faculty Development Program on “Emerging Trends in Artificial Intelligence for Smart Innovation and Sustainable Technologies in Industry 4.0” organized by the at P.D.A. College of Engineering, Gulbarga, (Karnataka), Dates: 01–06 Sept 2025.*
- *SERB-sponsored National Level Two-Day Faculty Development Program me (FDP)/Workshop on “Emerging Trends in Mechanical Engineering: Bridging the Gap with Interdisciplinary Technologies” organized by the Department of Mechanical Engineering, RV Institute of Technology and Management (RVITM), Bengaluru from 25-26 Sept 2025.*

- *National Level Online Faculty Development Program on “Interdisciplinary Manufacturing Process Advances and Characterization Techniques” organized by the Department of Mechanical Engineering, Jain College of Engineering and Research, Belagavi (Karnataka), Dates: 22–26 July 2025.*
- *Two-Day Workshop on Outcome Based Education (OBE) organized by RV Institute of Technology and Management (RVITM), Bengaluru on 29th and 30th March 2025.*
- *Advanced Hydraulics Automation Studio Webinar 18 May 2023*
- *Introduction To Industry 4.0 And Industrial Internet of Things 01 Jan 2023 – 01 April 2023*
- *Hybrid Electric Vehicles 21 Nov 2022-25 Nov 2022*
- *Current Trends in Manufacturing 13 June 2022 – 14 June 2022*
- *“OBE & its Impact on Accreditation Process” conducted during 06-10 July 2020 online by RVCE, Bangalore*
- *“Examination Reforms” conducted during 29 April to 2 May 202, on line organized by AICTE.*
- *“OBE & NBA Accreditation” at New Horizon College of Engineering, Bangalore*
- *“New NAAC Accreditation process for Engineering colleges” Visvesvaraya Technological University Regional Office, Bengaluru*
- *“Advances in Materials and Automotive Applications” at IIT Kanpur.*
- *“Application of Computers in IC Engines” at NITK Suratkal.*
- *“Recent Developments in Advanced Materials” at NITK Suratkal.*
- *“Impact of Energy Generation and Conservation on Environment” at NITK Suratkal.*
- *“Human Resource Development Needs in the context of Changing Market Requirements” at SJM Arts, Science & Commerce College Chitradurga.*
- *“Robotics and Multi Agent Systems” at NITK Suratkal.*
- *“Research Methodologies and Latex” at VTU Belgaum.*
- *“Recent Trends in Thermal Power Plant Technology” MSRIT, Bangalore*
- *“Computational Fluid Dynamics” through ICT-IIT Bombay*
- *“Sustainable Product Design and Manufacturing” at ACSCE, Bangalore*
- *“Feel Teacher” CLHRD, Mangalore*
- *“Induction Programme for faculty of Technical Institutions” at AMCEC, Bangalore*

**KSCST Project Exhibition:**

1. A Student project “*Prototype of Hydrogen Combustion Engine*” participated in the 48th series of Student Project Program (SPP) KSCST State Level exhibition at JNNCE Shivamogga on 01-02 Aug 2025.

**Organization profile:**

*Organization1* : **RV Institute of Technology & Management**  
Bangalore

Period : October 2021 – Till date

Designation : Associate Professor

*Organization2* : **Jain Institute of Technology,**  
Davangere

Period : August 2014 – September 2021

Designation : Associate Professor

*Organization3*: **PES Institute of Technology and Management,**  
Shivamogga

Period : August 2012 – July 2014

Designation : Asst. Professor

*Organization4*: **SJM Institute of Technology,**  
Chitradurga

Period : December 2005 – August 2012

Designation : Senior Lecturer

*Organization5*: **M/s SPM India Ltd.**  
Bangalore

Period : August 1995 - December 2004

Designation : Asst. Manager-PPC,

**Training:** One Year Apprentice Training. Automotive Axles Ltd. Mysore.

A group of Rockwell Automotive and Kalyani Forgings

**Specialization:**

- \* Turbo machines, Heat & Mass Transfer, Thermodynamics
- \* Advanced Fluid Mechanics, Machine drawing, Engg Graphics etc.
- \* Manufacturing Engineering and Fabrication.
- \* Assembly of Machines.
- \* CFD Analysis

**Dr. Raghavendra Reddy N V**