



# Dr. B Ramakrishna

## Assistant Professor



**Education Qualifications:** M Tech., Ph.D  
**Specialization:** Thermal Engineering

### ADDRESS:

- B – Block -Room No 302

### JNTUH ID:

33150404-201747

### EMAIL:

bramakrishna\_mct@mgit.ac.in

### DATE OF JOINING:

02-12-2014

### EXPERIENCE – 13 Years

- Teaching - 13

### SUMMARY:

- Publications - 23
- Conferences - 09

### EVENTS:

- Organized - 06
- Attended – 95

### LET'S MEET ON SOCIAL:

[www.Linkedin.com/in/ramakrishnaburlamgithyderabad](http://www.Linkedin.com/in/ramakrishnaburlamgithyderabad)

### Membership of Professional Bodies:

1. Life Member in MISTE [LM 124429]

### Responsibilities Held at Institution Level:

1. Member of anti-ragging committee to make sure that there is no ragging activity in the campus.
2. Invigilation duties for Internal/mid and end semester exams

### Responsibilities Held at Department Level:

1. Continuously updating files for NBA, Autonomous and NAAC.
2. Alumni Coordinator
3. Placement Coordinator
4. Thermal Engineering and Heat Transfer Laboratory In charge.
5. IIC Coordinator

### Courses Handled at Undergraduate /Post Graduate Level:

- **UG:** Engineering Mechanics, Engineering Drawing, Strength of Materials, Thermal Engineering-I, Thermal Engineering –II, Heat Transfer, Power Plant Engineering.

### Publications:

1. B Ramakrishna, Ch Phani Satwik kumar, P Omsai, R Anudeep singh, S Arjun “Dynamic Speed Management Enhancing Traffic Safety with Adaptive Speed Breaker” International Research Journal on Advanced Engineering Hub (IRJAEH), Volume 3, Issue 6, 2025,2928-2933, ISSN 2584-2137
2. B Ramakrishna, P Usha Sri “Investigating the Impact of Diethyl Ether (DEE) Additive on the Performance and Emission Characteristics of a Common Rail Direct Injection (CRDI) Diesel Engine Utilizing Diesel and Cotton Seed oil Blends” Nanotechnology Perceptions, Volume 20, S13, 2024,1217-1231, ISSN 1660-6795.
3. B Ramakrishna, P Usha Sri “Investigating the Impact of Diethyl Ether (DEE) Additive on the Performance and Emission Characteristics of a Common Rail Direct Injection (CRDI) Diesel Engine Utilizing Diesel and Cotton Seed oil Blends” Nanotechnology Perceptions, Volume 20, S13, 2024,1217-1231, ISSN 1660-6795.
4. B Ramakrishna, D Kameswara Rao, Dr. K. Sudhakar Reddy “Design and Analysis of Multi-Axis Welding with Auto Indexing” International Journal of All Research Education and Scientific



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Methods (IJARESM), Volume 12, Issue 6, Pg 2711-2717, June-2024. ISSN :2455-6211.

5. B.Ramakrishna, Dr. K. Sudhakar Reddy, B. Goutham “Fabrication of Pneumatic Operated Actuator by using Reciprocating Mechanism” International Journal of All Research Education and Scientific Methods (IJARESM). Volume 12, Issue 2, February-2024, Pg No:1068-1079, ISSN 2455-6211.
6. B.Ramakrishna, M.V.S Murali Krishna, P Usha Sri “Control exhaust emissions of insulated diesel engine fuelled with biogas and cottonseed biodiesel” Ecology, Environment and Conservation,29, 2023,S424-S431.
7. B Rama Krishna, M.V.S. Murali Krishna, P. Usha Sri “Influence of injection timing on insulated diesel engine fuelled with biogas” Gradiva Review Journal, Volume 8, Issue , May 2022, ISSN 0363-8057.
8. B.Rama Krishna, M.V.S. Murali Krishna, P. Usha Sri “Effect of Injection Pressure on Exhaust Emissions of Diesel Engine Fuelled with Biogas and Biodiesel” Natural Volatiles and Essential Oils (NVEO), Volume VIII, Issue IV, November 2021, ISSN 2148-9637.
9. D Kameshwara Rao, B Ramakrishna, “Electricity Generation from thermoacoustic engine” Journal of Shanghai Jiaotong University, Volume 17, Issue 9, September 2021, ISSN 1007-1172.
10. B.Ramakrishna, M.V.S Murali Krishna, P Usha Sri “Comparative investigations on exhaust emissions of insulated diesel engine and conventional diesel engine with biogas” Journal of Emerging Technologies and Innovative Research, August-2021, ISSN : 2349-5162.
11. B.Ramakrishna, M.V.S Murali Krishna, P Usha Sri “Comparative investigations on performance parameters of insulated diesel engine and conventional diesel engine with biogas” Science, Technology and Development, Volume X Issue VIII August 2021, ISSN 0950-0707.
12. B.Ramakrishna, D Kameshwara Rao “Pneumatically Controlled Wheel for Angular Rotation of Vehicle” Journal of Shanghai Jiaotong University, Volume 17, Issue 8, August -2021, ISSN 1007-1172.
13. B.Ramakrishna, M.V.S Murali Krishna, P Usha Sri “Experimental investigations on exhaust emissions of diesel engine fueled with biogas” International Journal of Mechanical Engineering and Technology (IJMET), Volume 12, Issue 7, July 2021, Page No:1-9, ISSN: 0976-6359.
14. B Ramakrishna, M.V.S Murali Krishna, P Usha Sri “Influence of injection pressure on exhaust emissions of insulated diesel engine fuelled with biogas and biodiesel” International Journal of Mechanical Engineering and Technology (IJMET), Volume 12, Issue 7, July 2021, Page No 23-32. ISSN 0976-6359.



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15. J.Pavan kumar, K.Sudhakar Reddy, B.RamaKrishna “Analysis of Power Generation from Vertical Axis Wind Turbine”, GIS Science Journal, Volume 8, Issue 6, June – 2021, ISSN NO 1869-9391.
16. B Ramakrishna, K Sudheer Kumar, D Kameshwara Rao “Design and Fabrication of Hybrid Vehicle” STD- Science, Technology and Development, Volume IX, Issue III, March 2020, Page No 554- 561, ISSN 0950-0707.
17. K Sudheer Kumar, B Ramakrishna, B Ramu “Analysis of Various Methods of Diffuser Wall Cooling in High Altitude Test Facility” Science, Technology and Development, Volume IX, Issue V, May 2020, Page No 294-299.ISSN 0950-0707.
18. B. Ramakrishna, J Pavan kumar , M Yadi Reddy, K Sudheer kumar “Thermal Analysis of Double Pipe Heat Exchanger with Different Mass Flowrates” IJCER - International Journal of Computational Engineering Research, Volume, 08, Issue, 2, 2018, Page No 50-55, ISSN 2250 – 3005.
19. B Ramakrishna, J Pavan kumar, B Ramu “Analysis of Counter flow Heat Exchanger using copper as a material” IJRASET-International Journal for Research in Applied Science & Engineering Technology, Volume 5, Issue VI, June 2017, pp 2298-2302. ISSN: 2321-9653.
20. J Pavan kumar, B. RamaKrishna, J Venkatesh, “Analysis of Davis steering gear mechanism for four wheels and six wheels” IJRST International Journal for Innovative Research in Science & Technology, Volume 3, Issue 08, January 2017, pp 112-116. ISSN 2349-6010.
21. B RamaKrishna, J. Pavan kumar “Experimental study on double pipe heat exchanger with fin” IJSRD- International Journal for Scientific Research & Development, Volume 4, Issue 09, Nov 2016 , pp 504-506, ISSN 2321-0613.
22. B RamaKrishna, J. Pavan kumar, D. Srikanth “Design of Counter Flow Heat Exchanger using Steel as a Material by CFD Analysis” IJSTE - International Journal of Science Technology & Engineering, Volume 3, Issue 01, July 2016, pp 215-219. ISSN 2349-784X.

**National Journals -01**

1. K.Sudheer Kumar, K.Sudhakar Reddy, B Ramakrishna, D.Kameshwara Rao “Fabrication of glass-polymer composite laminate with different angle ply orientation” NJMRD-National Journal of Multidisciplinary Research and Development, Volume 51, issue 4, 2020, Page No. 23-27. ISSN: 2455-9040.

**INTERNATIONAL CONFERENCES : 06**

1. Participated and presented in the 4<sup>th</sup> International Conference on recent trends in Engineering and Technology on “Performance Analysis of Solar PV Systems Integrated Nano-Enhanced Phase



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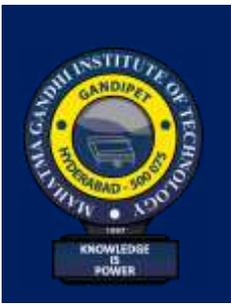
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Change Materials and Heat sinks” Hirasugar Institute of Technology, Nidasoshi, Karnataka on 7<sup>th</sup> and 8<sup>th</sup> March 2025.

2. Participated and presented in the 1<sup>st</sup> International Conference on Materials, Energy, and Mechanical Engineering (ICME2-2021), on " Effect of injection timing on exhaust emissions of insulated diesel engine with biogas” at Department of Mechanical Engineering, Madanapalle Institute of Technology & Science, Madanapalle, India on 17<sup>th</sup> and 18<sup>th</sup> December 2021.
3. Participated and presented in the Virtual International Conference on Recent Advancements in Mechanical Engineering (ICRAME 2021) “Variation of Mechanical Properties of Polyester Fiber Composite Laminate by Using Different Angle Ply Orientations” at Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli, TamilNadu on 30<sup>th</sup> March, 2021.
4. Participated and presented in the International Conference on Recent Trends on Engineering and Technology-2020 on “ A Comparative Study on the Performance and Emission characteristics of a Diesel Engine Operated by using Pongamia and Mahua Oil Blends - A Review ”at Vundavalli Satyanarayana Murthy College of Engineering, Ramchandrapuram, AP on 25th July 2020.
5. Participated and presented in the 2nd International Conference on Advancements in AeroMechanical Materials for Manufacturing (ICAAMM 2018) on “Formability of sheet Metals - A Review “ at MLR Institute of Technology, Hyderabad on 13th &14th July 2018.
6. Participated and presented in the International Conference on Research in Engineering, Technology and Management -2018 on “Design and analysis of Inclination Angle on Davis steering gear mechanism ” at Mother Theresa College of Engineering and Technology, Peddapalli., Telangana on 20th February 2018

**National Conferences : 03**

1. Participated and presented in the First National Level Virtual Conference on "Advances in Materials and Manufacturing Systems-2020" on "Evaluation of Mechanical Properties of a Hybrid composite" at Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore, Tamilnadu on 3<sup>rd</sup> July 2020.
2. Participated and presented in the National Conference on Optimization Techniques and Recent Innovations in Design, Manufacturing and Thermal Engineering- NCRIDMT 2020 on "Emission Characteristics Of Four Stroke Single Cylinder Diesel



Engine by Using Pongamia Blends" at Department of Mechanical Engineering, Santhiram Engineering College, Nandyal, Kurnool, A.P. in association with Indian Servers and Brain O Vision, Hyderabad on 13<sup>th</sup> June 2020.

3. Participated and Presented paper in National conference on "Innovative research in Engineering and Technology" on 8<sup>th</sup> and 9<sup>th</sup> May 2015 at Vaageswari college of Engineering, karimnagar.

#### Events Organized:

##### FDPs/STTPs:

1. Co Convener for five days online faculty development program on "Recent Advances in Mechanical Engineering: A Research Perspective" Conducted by department of Mechanical engineering, MGIT, Hyderabad from 6<sup>th</sup> to 10<sup>th</sup> July 2020.
2. Member for One week Online Short Term Training Programme (STTP) on "Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and their Applications for Future Challenges" Conducted by department of Mechanical engineering, MGIT, Hyderabad from 2<sup>nd</sup> to 7<sup>th</sup> November 2020.

##### Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. One day workshop of India Design Week 2025 by Autodesk on FUSION 360 software, in collaboration with ICT Academy and Department of mechanical Engineering, MGIT Hyderabad on 12-2-2025.
2. One day online workshop on "Design Now Workshop" conducted by ICT Academy and Department of mechanical Engineering, MGIT Hyderabad on 19-10-2020.
3. One day online workshop on "Design Now workshop" conducted by ICT Academy and Department of mechanical Engineering, MGIT Hyderabad on 05-12-2020.
4. One day online workshop on "Design Now workshop" conducted by ICT Academy and Department of mechanical Engineering, MGIT, Hyderabad on 18 -01-2021.

#### Events Attended:

##### FDPs/STTPs:

1. Participated in Two Week Online Refresher Course on "Advances in Thermal Engineering and their Applications" organized by Malaviya Mission Teacher Training Centre (UGC-MMTTC) and Jawaharlal Nehru Technological University Hyderabad from 20th January 2025 to 1<sup>st</sup> February 2025.
2. Participated in AICTE Training and Learning (ATAL) Academy FDP on " Optimizing Renewable Energy Systems with Smart Materials and Storage Solutions" Organized by University College of Engineering Kakinada from 20th January 2025 to 25th

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January 2025.

3. Participated in Five Day FDP on “Advanced ANSYS Mechanical Software” Jointly organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad and Ark Infosolutions Pvt Ltd from 25.11.2024 to 29.11.2024
4. Participated in Five Day FDP on "Technological Advancement in Synthesis of Novel Materials" organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad from 5.8.2024 to 10.08.2024.
5. Participated in FDP on “Recent advancements in heat exchanger technologies: Experimentation & Simulation “organized by Department of Mechanical Engineering, OP Jindal University, Haryana from 13.03.2023 to 17.03.2023.
6. Participated in Five Day National SPARC Workshop on " Combustion Analysis and Modern Trends in IC Engine " Organised by Department of Mechanical Engineering , NIT Warangal in Association with National Taiwan University, Taiwan from 07th to 11th February 2022.
7. Participated in FDP on “Robotics and Drones “ Organized by Departments of Electrical and Electronics Engineering, and Electronics and Communications Engineering, Information Technology, IEEE CBIT-RAS society, from 05.09.2022 to 17.09.2022.
8. Participated in Five Day Faculty Development Program on “ Recent Trends in Thermal Engineering” organized by Department of Of mechanical Engineering , Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru , AP from 6th to 10th September 2021.
9. Participated in FDP on “Emerging Technologies in Automotive Industry” organized by department of Automobile Engineering, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 16th to 20th August 2021.
10. Participated in ATAL FDP on "Applications of Artificial Intelligence in Mechanical Engineering" organised by Department of Mechanical Engineering , K.Ramakrishnan College Of Engineering, Tamil Nadu from 2nd to 6th August 2021.
11. Participated in AICTE Sponsored One Week Online STTP on " “Innovations and Challenges in Industry 4.0 Automation and Smart Manufacturing" organized by Department of Mechanical Engineering, Kallam Haranadha Reddy Institute of Technology , Guntur , AP from 26th – 31st July 2021.
12. Participated in three days faculty development program on “Advances of Finite Element Method” Under TEQIP – III Jawaharlal Nehru Technological University Hyderabad.orgnized by Departments of Civil & Mechanical Engineering , Vidya Jyothi



Institute of Technology , Hyderabad, during 18th to 20th February 2021.

13. Participated in three days FDP on “Laws of Thermodynamics & their Applications” organized by the Department of Mechanical Engineering, JNTUH College of Engineering, Hyderabad during 8th Feb to 10th February 2021.

**Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:**

1. Attended the Webinar on “National Intellectual Property Awareness Mission” Jointly organised by Intellectual Property Office and MoE's Innovation Cell, India on 13.03.2023
2. Attended the Workshop on “Autodesk - Fusion Fundamentals” organized by Design Labs, Autodesk Authorized Academic Partner on 30th October 2024 in MGIT.
- 3 Attended the Webinar on "Automotive Product Manufacturing Process & It's QMS Requirements" Organised by Department of Mechanical and Automobile Engineering, Arasu Engineering College , Kumbakonam on 6<sup>th</sup> June 2021.
- 4 Participated in Three days National workshop on “ NAAC Assessment and Accreditation: A Step by Step process” IQAC , Chadalawada Ramanamma Engineering College , (autonomous), Tirupati, AP on 27th to 29th May 2021.
- 5 Attended the Webinar on "Automotive Product Manufacturing Process & It's QMS Requirements" Organised by Department of Mechanical and Automobile Engineering, Arasu Engineering College , Kumbakonam on 6<sup>th</sup> June 2021.
- 6 Participated in Three days National workshop on “ NAAC Assessment and Accreditation: A Step by Step process” IQAC, Chadalawada Ramanamma Engineering College, (autonomous), Tirupati, AP on 27th to 29th May 2021.
- 7 Attended the One Day National Level Online Webinar on “Lean Startup and Business Product” organised by MVSR- Institution Innovation Council (IIC), Hyderabad, on 21st May 2021.
- 8 Attended the One Day seminar on “ Recent Advances in Automobile Engineering” by Department of Mechanical Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada under AICTE Margadarshan on 28th April 2021.

**Online Certifications:**

1. Completed Coursera Subjects in
  - i) "Introduction to thermodynamics: moving energy from here to there"
  - ii) "Digital Manufacturing & Design" .
  - iii) "Mechanics of Materials I: Fundamentals of stress & strain and Axial loading"
  - iv) "Material Science: 10 things every engineer should know"

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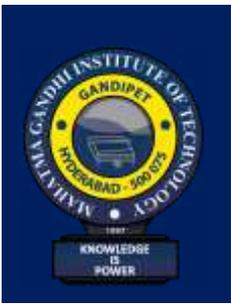
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v) Mechanics of Materials II:Thin-Walled Pressure Vessels and Torision

2. Completed NPTEL Online Certification Course in “Conduction and Convection Heat Transfer

**Any Other Contribution:**

- 1.No. of online webinar’s attended : 38**
- 2. No. of online FDP’s attended : 29**
- 3. No. of online STTP’s attended : 12**
- 4. No. of online workshop’s attended : 09**

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