

Name: Mr. KURUVA KRISHNA MURTHY
Designation: Assistant Professor
Department: Mechanical Engineering
Email ID: krishnamurthy_k@vnrvjiet.in



Experience (in years): Teaching: 8 years 1 months
Research: Microchannel, Others (If any, Specify): --

1. Educational / Technical qualifications:

| S.No. | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|-------|------------------------|----------------------------------|---------------------------|
| 1 | UG: B.E. | 2008 | Mechanical Engineering |
| 2 | PG: M.Tech. | 2011 | Thermal Power Engineering |
| 3 | Ph.D. | 2018 Registered (RRM2 Completed) | Mechanical engineering |

2. Teaching and Learning:

2.1. Teaching Interests:

Engineering Graphics/Drawing, Basic Thermodynamics, Heat and Mass Transfer Fluid Mechanics and Hydraulic Machines, Computational Fluid Dynamics, Engineering Mechanics, Power Plant Engineering, Design of Heat Exchanger Equipment, Fluid Mechanics Lab, Heat Transfer Lab, and Thermal Lab.

3. Co-curricular and Extra-Curricular Activities:

3.1. Interests and Hobbies:

- Reading books.
- Playing games(Indoor games)
- To promote work efficiency and good attitude towards work, in organizations.

4. Conference / Workshop / Seminar / Guest Lectures:

1.1 Conducted: 2

1.2 Attended: 26

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 2

5.2. Articles/Chapters published in Books: 2

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG: 12

b) PG: Major – 1; Mini – 1

5.5. Research Interests:

- Heat transfer analysis on Nano-particles and Nano-fluids, Heat Exchanger, Design of Heat Exchanger Equipment, convection heats transfer analysis, solar still, Hydrodynamic Behaviour of fluid in Air lift loop, Heat transfer analysis in Micorchannels.

5.6. Ph.D students: Not Applicable

- a) Enrolled:
- b) Submitted:
- c) Awarded:

5.7. Papers published in reviewed Journals:

| S.No | Title of the Paper | Journal Name Vol.No. PP | ISBN/ISSN No. | Impact Factor/ Citation Index | National/ International |
|------|---|---|------------------|-------------------------------------|----------------------------|
| 1 | Experimental Analysis on Heat Transfer Enhancement of Double Pipe Heat Exchanger Using Alumina/Water Nanofluid and Baffled Twisted Tape Inserts | Applied Mechanics and Materials, Vols. 752-753, (2015), pp 458-465. | 1662-7482 | Scopus Indexed in peer reviewed | International Journal |
| 2 | Effect of Peclet Number on the Thermo Capillary Convection and Molten Pool Shape Formation during Laser Welding by Using CFD | Advanced Materials Research, Vols. 383-390, (2012), pp 6231-6235. | 1022-6680 | Scopus Indexed in peer reviewed | International Journal |
| 3 | Experimental Investigation on Heat Transfer Enhancement of Three Tube Heat Exchanger using Aluminium Oxide (Al ₂ O ₃)/Water Nano fluid | Advances in Mechanical Engineering and Nanotechnology (AMENT2018) Volume 5, Special Issue, June 2018 | 2348-8565 | (IF: 3.478) | International Journal |
| 4 | Experimental Investigation on Pyramidal Solar Still for Indian Climate | Advances in Mechanical Engineering and Nanotechnology (AMENT2018) Volume 5, Special Issue, June 2018 | 2348-8565 | (IF: 3.478) | International Journal |
| 5 | Influence of Cavities with Staggered Configuration on Heat Transfer | International Research Journal of Engineering and Technology (IRJET), Volume 8, pp 1599-1602 | 2395-0056 | (IF: 7.529) | International Journal |

| | | | | | |
|----------------------|---|---|-----------|--|--------------------------|
| | Characteristics of a Micro-channels | | | | |
| 6 | Experimental Investigations on the Effect of Lower Aspect Ratios on Thermal Performance of a Microchannels | International Research Journal of Engineering and Technology (IRJET), Volume 8, pp 1900-1904 | 2395-0056 | (IF: 7.529) | International Journal |
| Book Chapters | | | | | |
| 1 | Experimental Investigation on Portable Refrigerating Bottle | Smart Innovation, Systems and Technologies | 2190-3018 | SJR:0.172 | Scoups index (Springer) |
| 2 | Experimental Investigation on Performance and Emission Characteristics of Mixture of Sunflower and Soybean Biodiesels | Smart Innovation, Systems and Technologies | 2190-3018 | SJR:0.172 | Scoups index (Springer) |
| Conferences | | | | | |
| 1 | Enhancement of hat transfer in microchannel heat exchanger by using C shaped cylindrical inserts | International conference on Advances in mechanical engineering, industrial informatics and Management (AEMIIM-2022) @NIT Raipur | - | AIP Publications (Scoups (Elsevier/Web of Science) indexed | International conference |
| 2 | Investigations in hydro-thermal Performance of micro channel heat exchanger using micro chambers with ribs | 3rd International Conference on Recent Advancements in Mechanical Engineering (ICRAME-2022) @NIT Silchar | - | Springer Scoups indexed | International conference |
| 3 | Experimental Investigation on Portable Refrigerating | Smart Innovation, Systems and Technologies | 2190-3018 | Springer Scoups indexed | International conference |

| | | | | | |
|---|---|--|-----------|-------------------------|--------------------------|
| | Bottle | | | | |
| 4 | Experimental Investigation on Performance and Emission Characteristics of Mixture of Sunflower and Soybean Biodiesels | Smart Innovation, Systems and Technologies | 2190-3018 | Springer Scoups indexed | International conference |
| 5 | Experimental Investigation on Heat Transfer Enhancement of Three Tube Heat Exchanger using Aluminium Oxide (Al ₂ O ₃)/Water Nano fluid | National Conference on Advances in Mechanical Engineering and Nanotechnology (AMENT-2018) Volume 5, Special Issue, June 2018 | 2348-8565 | C.Y:2018 | National Conference |
| 6 | Experimental Investigation on Pyramidal Solar Still for Indian Climate | National Conference on Advances in Mechanical Engineering and Nanotechnology (AMENT-2018) Volume 5, Special Issue, June 2018 | 2348-8565 | C.Y:2018 | National Conference |

Details of Consultancies Offered

| S.No. | Type of Consultancy | Benefited Organization | Amount |
|-------|--|-------------------------|--------|
| 1 | Performance test on VCR Engine | MLRIT, Hyderabad | 1500 |
| 2 | Emission and Performance test on CVR Engine | MLRIT, Hyderabad | 1000 |
| 3 | Performance test on VCR engine with Biodiesel blends | MLRIT, Hyderabad | 1000 |
| 4 | Performance and Emission test | Government person | 16000 |
| 5 | Performance and Emission test | MLRIT, Hyderabad | 4000 |
| 6 | Performance test on VCR engine | Anurag Group Institutes | 2360 |

| | | | |
|----|--|-------------------------|-------|
| | with Biodiesel blends | | |
| 7 | Performance and Emission test | JNUT Kakinada | 16000 |
| 8 | Performance test on VCR engine with Biodiesel blends | Government person | 4000 |
| 9 | Performance and Emission test | MLRIT, Hyderabad | 2500 |
| 10 | Performance test on VCR engine with Biodiesel blends | MLRIT, Hyderabad | 1000 |
| | Performance and Emission test | CMR Engineering college | 1000 |

Details of Administrative Positions held in the Institute & Works involved – Max. Score=40

| S.No. | Name of the Administrative Position | Work involved | Period |
|-------|-------------------------------------|---|-----------------|
| 1 | Member of IQAC | Related to IQAC work | 2018- 21 |
| 2 | Lab In charge | Establishment and maintained | 2015- till date |
| 3 | NAAC | Teachers Quality, MOU'S in institute level and Higher studies | 2017-18 |
| 4 | NBA | Result analysis and Higher studies | 2015 - Till |
| 5 | Mtp (Mentoring) | For 24 Students | 2015 - till |
| 6 | Class Coordinator | - | 2015 - till |
| | | | |