



Dr. D. Kameswara Rao

Assistant Professor



Education Qualifications: Master of Technology, Ph.D
Specialization: Energy Systems

ADDRESS:

- B -301

JNTUH ID:

49150331-192311

EMAIL:

dkameswararao_mct@mgit.ac.in

DATE OF JOINING:

14-12-2012

EXPERIENCE - 25 Years

- Teaching -12
- Industry -7
- Others – 8

SUMMARY:

- Publications - 12
- Conferences - 7
- Patents – 2

EVENTS:

- Organized - 2
- Attended - 70

Membership of Professional Bodies:

1. Life Membership of Indian Society for Technical Education (ISTE).
2. Society of Automotive Engineers (SAE).
3. Indian Yoga Association (IYA)

Responsibilities Held at Department Level:

1. I/C Society of Automotive Engineers.
2. In charge for part of Department files of NBA and NAAC
3. 4/4 and 2/4 B.Tech MCT Class In charge
4. Co-convener /In charge for various committees during TECHNOVATION, IGNITO, MAGISTECH.

Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** Engineering Graphics, Thermal Science , Automobile Engineering, Non-Conventional Energy Sources

Publications:

1. Published the paper “Influence on solar PV performance integrated with heat sinks and nano-enhanced phase change material” in Part E:Journal of Process of Mechanical Engineering (ISSN: 20413009, 09544089) volume 1- 10 , 2024 by Sage Publications
2. Published the paper “Thermal and phase change characteristics of organic phase change material enhanced by carbonaceous materials” in Journal of thermal analysis and calorimetry 12th march 2025, Springer publications
3. Published the paper “Enhancing Efficiency of PVT systems with Finned PCM technology” in i-manager’s Journal on Mechanical Engineering, (ISSN:2277-5110/2277-5250) 13(3), 21-35 July - September 2023 issue, Volume 13, issue no.3
4. Published the paper “PVT Panel efficiency enhancement with cooling methods and sun tracking ” in i-manager’s Journal on Mechanical Engineering, (ISSN:2277-5110/2277-5250) 13(3), 21-35 July - September 2023 .
5. Published the paper “Enhancement of PVT efficiency, Thermal Energy Storage with Effective PCM Selection and Cooling Techniques” " in “International Journal of Mechanical and Production Engineering Research and Development (IJMPERD ISSN (PRINT): 2249-6890; ISSN (ONLINE): 2249-8001)”on April – 21
6. Published the paper “Experimental study of solar thermal PV collectors and itsperformance efficiency towards Conventional / Modern cooling techniques” in International Journal of Research and Analytical Reviews (IJRAR, E ISSN 2348-1269) inJune 2019.
7. Published the paper “A Review on Micromachining Techniques used for Fabrication of MEMS Products” in 5th National Conference on Advances in Mechanical Engg. Under TEQIP – II on 1-2 May 2015 Organized by Vasavi College of Engineering, Hyderabad.



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8. Published the paper “PVT Cell Performance Characteristics and Efficiency with Phase Change Material” in International Journal of Engineering and Advanced Technology (Print ISSN 2249-8958) on 15th June 2020.
9. Published the paper “Enhancement of Energy Efficiency with Modeled Design of Concentrated Solar Power Technology Using Parabolic Dish and Trough” International Journal of Scientific & Technology Research (IJSTR) (Print ISSN 2277-8616) on 7th march 2020.
10. Published the paper “Pneumatically Controlled Wheel for Angular Rotation of Vehicle ” in “Journal of Shanghai JiaotongUniversity”(ISSN:1007-1172) on June-21
11. Published the paper “Enhancement of PVT efficiency, Thermal Energy Storage with Effective PCM Selection and Cooling Techniques” " in “International Journal of Mechanical and Production Engineering Research and Development (IJMPERD ISSN (PRINT): 2249-6890; ISSN (ONLINE): 2249-8001)”on April – 21
12. Published the paper “Design and Fabrication of Hybrid Vehicle" in “Journal of Science, Technology and Development (ISSN : 0950-0707) in 2019
13. Published the paper “Photovoltaic/ Thermal (pv/t) system performance effects using conventional/ modern cooling techniques with and without PCM” " in Springer Journal Lecture notes(ISSN:21954364) in Mechanical Engineering as Lecture notes
14. Published the paper “Fabrication of glass-polymer composite laminate with different angle ply orientation” in National Journal of Multidisciplinary Research and Development (ISSN: 2455-9040) on 24th September 2020.
15. D KameshwaraRao , B Ramakrishna, “Electricity Generation from thermo-acoustic engine ” Journal of Shanghai JiaotongUniversity,ISSN: 1007-1172, Volume 17, Issue 9, September - 2021.

Conferences:

1. Presented the paper “Experimental Study and Analysis of Hybrid Photovoltaic Thermal Solar Collector” in International Conference on Sustainable energy Technologies (ICSET 2014) on 11-13 December 2014 organized by PSG College of Technology ,Coimbatore.
2. Presented the paper “Characterization of Prototype Solar Hydrogen Fuel Cell System” in International Conference on Sustainable energy Technologies (ICSET 2014) on 11-13 December 2014 organized by SG College of Technology, Coimbatore.
3. Presented the paper “**Photovoltaic / Thermal (PV/T) System Performance effects using Conventional/ Modern cooling techniques with and without PCM**” in International conference on innovations in Mechanical Engineering (ICIME 2020) organized by Dept. of Mechanical engineering GNIT, Hyderabad during 11-12th January , 2020.
4. Presented the paper “**A Review of Nano particles classification, Synthesis and its application**” in International conference on "Recent advances & Innovations in Technology, Management & Applied Science (ICRAITMS-2021)" .
5. Presented the paper “**Modeled Design of Thermo-acoustic Engine to Generate Electricity Using Heat Source**” International conference on "Advances in Science, Engineering & Mathematics (ICASSEM -2020)" during 7-9thSEPTEMBER, 2020.

Patents:

1. Helical Fluid Flow of a Comprehensive B-Oldroyd Unsteady State with Partial Derivative
2. RECYCLE OF SEA FOOD WASTE INTO MOBILE CASES BY 3D PRINTING

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

1. Organized Workshop on “Gasoline / Electric Formula Race Car Design & Development” with Elite group during 10 to 17th December 2019 for UG & PG