

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 - 10
- Industry -7
- Others – 8

SUMMARY:

- Publications - 11
- 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).

Responsibilities Held at Department Level:

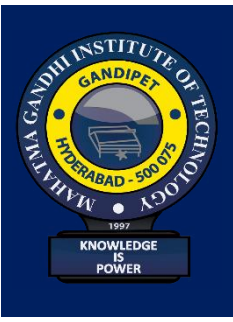
1. I/C Society of Automotive Engineers.
2. In charge for part of Department files of NBA and NAAC
3. 4/4 and 2/4 B.Tech MCT Class In charge
4. Co-convener /In charge for various committees during TECHNOVATION, IGNITO, MAGISTECH.

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 “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
2. Published the paper “Experimental study of solar thermal PV collectors and its performance efficiency towards Conventional / Modern cooling techniques” in International Journal of Research and Analytical Reviews (IJRAR, E ISSN 2348-1269) in June 2019.
3. 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.
4. 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.
5. 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.
6. Published the paper “Pneumatically Controlled Wheel for Angular Rotation of Vehicle " in “Journal of Shanghai Jiaotong University”(ISSN:1007-1172) on June- 21
7. 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



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8. Published the paper “Design and Fabrication of Hybrid Vehicle” in “Journal of Science, Technology and Development (ISSN : 0950-0707) in 2019
9. 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
10. 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.
11. D Kameshwara Rao , B Ramakrishna, “Electricity Generation from thermo-acoustic engine ” Journal of Shanghai Jiaotong University,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 (ICASEM -2020)" during 7-9th SEPTEMBER, 2020.

Patents:

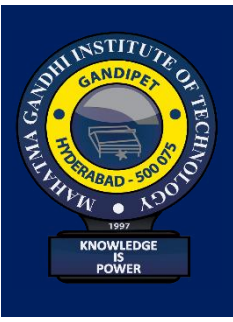
1. Helical Fluid Flow of a Comprehensive B-Oldroyd Unsteady State with Partial Derivative
2. RECYCLE OF SEA FOOD WASTE INTO MOBILE CASES BY 3D PRINTING

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 students.

Events Attended

FDPs/STTPs:



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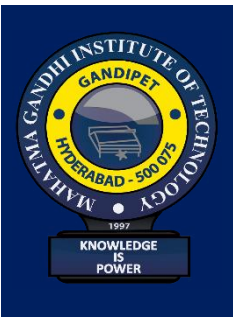
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1. Attended the international conference on “Materials for energy conservation and storage” organized by Department of Mechanical Engg. IIT Tirupathi during 24- 25th December 2019.
2. Attended FDP on “Nano material Synthesis, Process, Characterization and its Functional Applications”
3. Attended FDP AICTE Approved STTP On “Failure and Damage mechanics of High performance Engineering Materials”
4. Attended Faculty Development Program on “Electro-Mechanical Systems” under TEQIP III
5. Attended FDP On “International webinar on Pivotal role of Chemistry/Chemical Engineering in Present Scenario -2020”
6. Attended FDP on “Recent Advances in Renewable Energy & Energy Efficiency Technologies”
7. Attended AICTE approved STTP on “Nanotechnology and Functional Materials
8. Attended FDP ON “Research Innovations in Mechanical Engineering - RIME -2K20”
9. Attended FDP On “Recent Advances in Thermal science &Management”
10. Attended Short Term Training Programme (STTP) on “Nano Technology and Functional Materials
11. Attended STTP on “Recent Advances in Materials and Manufacturing
12. Attended STTP on “Industrial Internet of Things”
13. Attended a Short Term Training Programme (STTP) on “Smart Manufacturing Opportunities &Challenges
14. Attended a Short Term Training Programme (STTP) on “Recent advances in MEMS, MECHATRONICS and their applications for Future Challenges
15. Attended a FDP on “Research Methodologies in Mechanical Engineering
16. Attended a FDP on “Recent Developments In Solar Energy Recovery and Storage Technologies
17. Attended a FDP on “Advanced Welding Technologies”
18. Attended a FDP on “Advanced Optimization Techniques for Research Problem Solving”
19. **Attended a** FDP on “Innovative Product Design, Precision Engineering and Optimization
20. Participated Two week faculty Development Programme on “RECENT ADVANCES IN DESIGN AND DEVELOPMENT OF MECHATRONICS AND ROBOTIC SYSTEMS” During 4th& 16thDecember 2017 organized by MGIT, Hyderabad Sponsored by AICTE.
21. Participated One week faculty Development Programme on “ Emerging Trends In Composite materials and Industrial Applications ” During 20th -25th March 2017 organized by CBIT, Hyderabad Sponsored by TEQIP II



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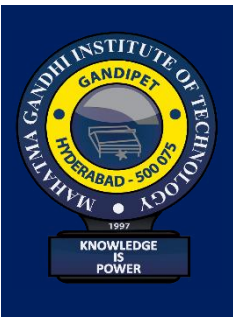
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22. Participated Two day faculty Development Programme on “Alternate Liquid fuels in IC Engines (ALFICE-17)” During 17th& 18th February 2017 organized by CBIT, Hyderabad Sponsored by TEQIP II.
23. Participated One week faculty Development Programme on “Finite Element Applications in Civil and Mechanical Engineering (FEAMCE-2017)” January 23rd -28th 2017 organized by CBIT, Hyderabad Sponsored by TEQIP II.
24. Attended the One week Faculty Development Programme on “Product design and Manufacturing” During 24th -30th October 2016 organized by TASK and Center for development of Advance Computing (CDAC), Hyderabad.
25. Attended the One week Faculty updation Programme on “Product design and Manufacturing” During 24th -30th October 2016 organized by TASK and Center for development Development of Advance Computing (CDAC), Hyderabad.
26. Participated Three day faculty Development Programme on “Fusion 360 for mechanical Engineering Faculty” During 14th to 15^h December 2016 organized by TASK AND Autodesk and MGIT.
27. Participated the One day Programme on “Engineering education and Research seminar at Hyderabad” organized by the National Instruments India on 21st April 2016.
28. Attended the Two week Audit Course on “Research Methodologies” During 1st -15th May 2015 organized by JNTU Kakinada, Andhra Pradesh.
29. Attended the Two week Audit Course on “Intellectual Property Rights and Patents” During 16th -30th May 2015 organized by JNTU Kakinada, Andhra Pradesh.
30. Participated the Two day Programme on “Advances in thermal Engineering (ATE -2014)” organized by the Department of Mechanical Engg. CBIT During 28th and 29th November 2014
31. Attended a Short Term Training Programme (STTP) on “Advanced techniques in Modelling and Analysis for structural and thermal applications
32. Attended a AICTE Training and Learning program ATAL Academy online FDP on “Alternate fuels”
33. Attended the two day National level FDP ON “Intellectual Property rights and Patent Filing”
34. Attended a AICTE Training and Learning program ATAL Academy online FDP on “Alternate fuels
35. Attended the One week ISTE- SRM STTP program on Mechatronics during 5th may to 10th may 2014.
36. Attended a Participated the Electric Solar vehicle Championship (ESVC-14) held at Lovely professional University, Jalandar, and Punjab on 29th to 31 March 2014.
37. Attended a Faculty Development Program me on “ADVANCES IN Engine Combustion and Emissions



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38. Attended a Faculty Development Program me on “Tools For Effective Research In Thermal Engineering”
39. Attended a FDP on“ Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and their Applications for Future Challenges”
40. Attended a Faculty Development Program “Digital Technologies in Design and Smart Manufacturing”
41. Attended a AICTE sponsored one week STTP Program me on “Exergy and exergoeconomic evolution of thermal Power plants”
42. Attended a IQAC and research and development cell organized FDP on “Advanced Technologies in Automotive Systems ATAS-21”
43. Attended a Three days Faculty Development Program on “Advances of Finite Element Method” Under TEQIP – III JNTUH, Hyderabad.
44. Attended a Faculty Development Program on “Emerging trends in Mechanical Engineering” organized by aEr. Perumal Manimekalai College Of Engineering
45. Attended a Faculty Development Program on “Innovations in Materials and Manufacturing Processes (IMMP-2021)”

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

1. Participated in one day work shop on Heat transfer enhancement and Energy conservation technologies (HECT 2019) on 29/11/2019 organized by Department of mechanical engineering, JNTU Hyderabad.
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