Name of Faculty Dr. N JANARDHAN Designation Assistant Professor Nature of Job/Appointment Regular Date of Joining 02-12-2010 E-mail njanardhan mech@cbit.ac.in **Education Qualifications** Name of the Degree Ph. D Doctor of Philosophy (Mechanical) PG M. Tech. (Thermal) UG B. E. (Mechanical) Work Experience Teaching 18 Research 06 years 5 Industry Others 04 Months Area of Specialization Thermal Engineering Professional Memberships Member, IEEE membership, 99912769 Responsibilities held at Institution Level Responsibilities held at Member, Course Expert Group Department Level Heat Transfer Lab In charge Research Guidance Awards Received Thermodynamics, ATDHT, Refrigeration & Air conditioning, Artificial Courses Handled at Under Intelligence, Finite Element Analysis, Fluid Mechanics & Hydraulic Graduate / Post Graduate Level. Machines, CAD & D, Applied Thermodynamics, Heat Transfer, Failure Analysis and Design International Journals - 55 National Journals -No. of Papers Published National Conference - 01 International Conference - 2 **Consultancy Project-DRDO** 1. Thermo-Structural Stability of a RCC Tunnel, worh of 9.89

lakhs

Projects Carried out

Control of aldehydes in high grade insulated diesel engine with low cost catalytic converter

Camouflaging Of Various Terrains / Assets Of Sites, worh of 9.50

Class

Awarded

Distinction

First

M.V.S.Murali Krishna, K.Kishor, Y.Nagini, N.Janardhan,

2. Development of Image Matching Techniques For

Date of filing application 06/07/2022,

Date of publishing- 15/07/2022,

Application No. 202241039527

Spark ignition engine with copper coated piston, copper coated liner and copper coated cylinder head

M.V.S.MuraliKrishna,K.Kishor,N.Janardhan,K.N.V.Sreedevi

Date of filing Application 06/07/2022

Date of publishing 15/07/2022

Application No 202241039530

- Diesel engine with different levels of Insulation for controlling pollution levels
 - M.V.S.Murali Krishna, R.P.Chowdary, V.V.R.Seshagiri Rao, N.Janardhanan

Date of filing Application 06/07/2022

Patents

Technology Transfer

Invited Speaker

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- Invited guest lecture for a talk on 'Advanced Thermodynamics' on 5th April, 2017 in GURU NANAK INSTITUTIONS TECHNICAL CAMPUS.
- Invited guest lecture on 'Basics of Mechanical Engineering for Non Mechanical Personnel' from 30th November to 4th December, 2018.
- Delivered lecture on 'Thermodynamics Refrigeration' for the employees of Dr. Reddy's Laboratories from 12-02-2014 to 06-05-2014.
- Invited guest lecture for a talk on 'Basics of Finite Elemental Techniques' on 7th April, 2019 in GURU NANAK INSTITUTIONS TECHNICAL CAMPUS

No. of Books/Chapter Published with details

Particiaped one week Faculty Development Programme on"Out come Based Education and NBA Accreditation Process",during

28-may-2020 into 01-06-2020.

 Participated oneweek Programme of online Faculty Development Programme on INDUSTRY 4.0- A VISION OF DESIGN AND MANFACTURING", conducted by the Department of Mechanical Engineering during 16th-20th June, 2020.

3. Participated one week online programme on "ADVANCED MATERIALS AND MANUFACTURING" from 29th/06/2020 to

03/07/2020 in KITS warangal

- 4. Participated one week faculty Development program me on "Finite Element Applications in Mechanical & Civil Engineering" Organized by the Department of Mechanical Engineering, CBIT, Hyderabad.23-28, 2017.
- Organized STTP on "IoT, IIoT and Applications" 10 15 July, 2023, in association with LETFLIX Technologies.

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.O ther Trainings (Attended and/or Organized).

Details of Journal Publications/ Conferences (National and International)

International Journal

- Mudasar Basha 1,2, Munuswamy Siva Kumar 1,Mangali Chinna Chinnaiah 2,3,*, Siew-Kei Lam 3,Thambipillai Srikanthan 4, Narambhatla Janardhan 5,Dodde Hari Krishna 6 and Sanjay Dubey 7, "A Versatile Approach to Polygonal Object Avoidance in IndoorEnvironments with Hardware Schemes Using an FPGA-Based Multi-Robot" (MDPI), https://doi.org/10.3390/s23239480, Published: 28 November 2023,
- Chinnaiah M C, Member, IEEE, G. Divya Vani, Srinivasa Rao Karumuri, Member, IEEE, Thambipillai Srikanthan, Senior Member, IEEE, Siew-kei Lam, Senior Member, IEEE, Janardhan Narambhatla, D HariKrishna and Sanjay Dubey," Geometry-based Parking Assistance using Sensor Fusion for Robots with Hardware Schemes", IEEE SENSORS JOURNAL, VOL. XX, NO. XX, XXXX 2023
- M C Chinnaiah1, Sanjay Dubey2, N Janardhan3, Venkata Pathi4, Nandan K1, AnushaM1, "Analysis of Pitta Imbalance in young Indian adult using Machine Learning Algorithm", 2022
 2nd International Conference on Intelligent Technologies (CONIT), Karnataka, India. June 24-26, 2022(IEEE)
- Divya Vani G 1,2, Srinivasa Rao Karumuri 1,*, Chinnaiah M C 2,3,*, Siew-Kei Lam 3, Janardhan Narambhatlu 4, and Sanjay Dubey 2 "Hardware-Efficient Scheme for Trailer Robot Parking by Truck Robot in an Indoor Environment with Rendezvous", Rendezvous. Sensors 2023, 23, 5097.https://doi.org/10.3390/s23115097(MDPI)
- N. Janardhan , N. V. Sreenivasulu, Y. Nagini, Experimental Investigations on Bio-Diesel with Nano Additive on High Grade Insulated Combustion Chamber at their recommended and Optimum Timings GRADIVA REVIEW JOURNAL, ISSN NO: 0363-8057, VOLUME 8 ISSUE 5 2022, Page 508
- 6. Dr. N Janardhan, MVS Muralikrishna Comparative Investigations On The Performance Parameters Of Tobacco Seed Oil Biodiesel In A Low Heat Rejection Diesel Engine, ISSN Print: 0976-6340, Volume 13, Issue 2, pp. 6-22, February 2022.
- 7. Dr. N. Janardhan , Dr. M V S. Mural krishna, Testing of spark Ignition Engine with Alcohol, International Journal of Mechanical and Production Engineering Research and Development, ISSN: 2249-6890, vol 11, issue 3, Jun 2021
- Dr. N Janardhan, Reduction Of Exhaust Emissions Of Semi Adiabatic Diesel Engine With Alternative Fuels, International Journal of Mechanical Engineering and Technology, ISSN: 0976-6359, Volume 12, Issue 3, pp:9-19, March, 2021(scopus)

- R.P. Chowdary, N.Janardhan, Performance of Waste Fried Oil based Biodiesel in a Stationary Diesel Engine, International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Volume-9 Issue-6, April, 2020
- N. Janardhan, R. P. Chowdary, Performance of Semi Adiabatic DI Diesel Engine with Supercharged air using Crude Jatropha Oil, International Journal of Soft Computing and Engineering, ISSN: 2231-2307, Volume-9 Issue-5, Jan, 2020
- 11. N.Venkateswara Rao, M.V.S.Murali Krishna, R.Peraiah Chowdary, N.Janardhan, V.V.R.Seshagiri Rao and T.Ratna Reddy, Experimental investigations on pollution levels from supercharged partially adiabatic diesel engine with tamarind biodiesel blended with diethyl ether, Pollution Research, ISSN: : 0257-8050, 37(4),235-240, December,2019
- 12. Dr. N Janardhan, Dr.R.P Chowdary "Performance of Semi Adiabatic DI Diesel Engine with Supercharged air using Crude Jatropha Oil" International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-9 Issue-5, January 2020.
- 13. Dr. R.P Chowdary, Dr.N Janardhan," Performance of waste fried Oil Based Bio Diesel in a Stationary Diesel Engine" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-6, April 2020
- 14. N. Janardhan , N. V. Sreenivasulu, Y. Nagini, Experimental Investigations on Bio-Diesel with Nano Additive on High Grade Insulated Combustion Chamber at their recommended and Optimum Timings GRADIVA REVIEW JOURNAL, ISSN NO: 0363-8057, VOLUME 8 ISSUE 5 2022, Page 508
- 15. V.V.R.Seshagiri Rao1, M.V.S. Murali Krishna2*, R.P.Chowdary3 and N.Janardhan Investigations on exhaust emissions of insulated engine fueled with rice brawn biodiesel, Gradiva Review Journal, ISSN NO: 0363-8057, VOLUME 8 ISSUE 5 2022
- **16.** Dr. N Janardhan, MVS Muralikrishna Comparative Investigations On The Performance Parameters Of Tobacco Seed Oil Biodiesel In A Low Heat Rejection Diesel Engine, ISSN Print: 0976-6340, Volume 13, Issue 2, pp. 6-22, February 2022
- 17. Dr. N. Janardhan , Dr. M V S.mural krishna, Testing of spark Ignition Engine with Alcohol, International Journal of Mechanical and Production Engineering Research and Development, ISSN: 2249-6890, vol 11, issue 3, Jun 2021
- 18. Dr. N Janardhan, Reduction Of Exhaust Emissions Of Semi Adiabatic Diesel Engine With Alternative Fuels, International Journal of Mechanical Engineering and Technology, ISSN: 0976-6359, Volume 12, Issue 3, pp:9-19, March, 2021(scopus)
- R.P. Chowdary, N.Janardhan, Performance of Waste Fried Oil based Biodiesel in a Stationary Diesel Engine, International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Volume-9 Issue-6, April, 2020
- 20. N. Janardhan, R. P. Chowdary, Performance of Semi Adiabatic DI Diesel Engine with Supercharged air using Crude Jatropha Oil, International Journal of Soft Computing and Engineering, ISSN: 2231-2307, Volume-9 Issue-5, Jan, 2020
- 21. N.Venkateswara Rao, M.V.S.Murali Krishna, R.Peraiah Chowdary, N.Janardhan, V.V.R.Seshagiri Rao and T.Ratna Reddy, Experimental investigations on pollution levels from supercharged partially adiabatic diesel engine with tamarind biodiesel blended with diethyl ether, Pollution Research, ISSN:: 0257-8050, 37(4),235-240, December,2019
- 22. Dr. N. Janardhan, Study of Smoke Levels Using crude Jatropha Oil with Preheated Condition and at Normal Condition Injection in High Grade Low Heat Rejection Combustion Chamber of Diesel Engine at Different Operating Pressures , International Journal of Application or Innovation in Engineering & Management (IJAIEM), ISSN 2319 – 4847, Volume 8, Issue 6, June 2019, ISSN 2319 – 4847, Volume 8, Issue 6, June 2019
- 23. N.Venkateswara Rao, M.V.S.Murali Krishna, R.Peraiah Chowdary, N.Janardhan, V.V.R.Seshagiri Rao and T.Ratna Reddy (2018), Experimental investigations on pollution levels from supercharged partially adiabatic diesel engine with tamarind biodiesel blended with diethyl ether, Pollution Research, ISSN: : 0257-8050, December, 37(4),235-240. (Scopus index journal)
- 24. N.Venkateswara Rao, M.V.S.Murali Krishna, R.Peraiah Chowdary, N.Janardhan, V.V.R.Seshagiri Rao and T.Ratna Reddy (2018), Experimental investigations on pollution levels from supercharged partially adiabatic diesel engine with tamarind biodiesel blended with diethyl ether, Pollution Research, ISSN: : 0257-8050, December, 37(4),235-240. (Scopus index journal) (Impact factor-4.8)
- Dr. N Janardhan, Reduction Of Nox Levels In Diesel Engine With Jatropha Oil Using Selective Catalytic Technique, International Journal Of Engineering Sciences & Research Technology, ISSN: 2277-9655, DOI: 10.5281/zenodo.1135985 January, 2018
- Dr. N Janardhan, Influence Of Varied Injection Timing On Exhaust Emissions With Crude Jatroph Oil On Di Diesel Engine With High Grade Insulated Combustion, IRE Journals, ISSN: 2456-8880, Volume 1 Issue 6, Dec 2017
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 Of Diesel Engine With Medium Grade Insulated Combustion Chamber With Crude Jatropha Oil
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 Volume 5, Issue 6, November-December, 2017
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- M.V.S. Murali Krishna, T.Ohm Prakash, P.Usha Sri, N.Janardhan and P.V. Krishna Murthy. (2015). Experimental Investigations on direct injection diesel engine with ceramic coated combustion chamber with carbureted alcohols and crude jatropha oil, Renewable and Sustainable Energy Reviews, ISSN: 1364–0321, http://dx.doi.org/10.1016/j.rser.2015.09.011, September, 53, 606–628, Elsevier Publications, (Impact factor= 5.9, Five year Impact factor=6.7).
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- 37. N. Janardhan, M.V.S. Murali Krishna and P.Usha Sri. (2015), Studies on influence of injection pressure on exhaust emissions of diesel engine with high grade insulated combustion chamber with crude jatropha oil operation, International Journal of Current Engineering Technology, ISSN: 2347–5161, June, 5(3), 966–973 (Impact factor= 3.2)
- 38. N. Janardhan, M.V.S. Murali Krishna and P.Usha Sri. (2015), Studies on influence of injection pressure on performance parameters of diesel engine with medium grade low heat rejection combustion chamber, International Journal of Application or Innovation in Engineering and Management, ISSN: 2319–487, June, 4(5), 362–375.(Impact factor= 3.2)
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- 45. N. Janardhan, M.V.S. Murali Krishna and P.Ushasri. (2014).Influence of injector opening pressure on exhaust emissions in DI diesel engine with three levels of insulation with diesel operation, International Journal of Mechanical Engineering and Technology, ISSN: 0976–6340, May, 5(5),54–61 (Impact factor= 7.53).(Scopus Journal)
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- 47. N. Janardhan, M.V.S Murali Krishna, P. Ushasri and P.V.K. Murthy. (2013). Performance of evaluation of a low heat rejection diesel engine with jatropha oil. International Journal of

- Engineering Research in Africa. ISSN: 1663–4144, doi.10.4028/www.scientific.net/JERA.11.27, October, 11,27–44. (Scopus) (Switzerland)
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- 55. N.Venkateswara Rao, M.V.S.Murali Krishna, R.Peraiah Chowdary, N.Janardhan, V.V.R.Seshagiri Rao and T.Ratna Reddy (2018), Experimental investigations on pollution levels from supercharged partially adiabatic diesel engine with tamarind biodiesel blended with diethyl ether, Pollution Research, ISSN: : 0257-8050, December, 37(4),235-240. (Scopus index journal)

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