

Name of Faculty Dr M V S MURALI KRISHNA
 Designation Professor
 Nature of Job/Appointment Regular
 Date of Joining 05-08-1987
 E-mail muralikrishna_mech@cbit.ac.in
 Education Qualifications Contact No. 9885517936; 9542616316



	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Mechanical Engineering)	Awarded
PG	M, E (Production Engineering)	First
UG	B. Tech (Mechanical Engineering)	First

Work Experience

Teaching	35 Years (Includes Research Experience)
Research	22 years
Industry	2.5 years

Area of Specialization Thermal Engineering

Professional Memberships FIE (F012132), FSSE, FSPE, FSCSc, MISTE, MISME, LMCI (1082), MSES (1179/LM/2006), MIAENG (139164)

Responsibilities held at InstitutionLevel Head, Department of Mechanical Engineering from 19-10-2018 to 31-05-2020

Responsibilities held at Department Level

- 1) Worked as Member in Academic Council in CBIT from 02-03-2010 to 31.05.2020
- 2) M.E Course Coordinator Member in CBIT from inception of the course to 18-10-2018
- 3) Member, BoS from 02-03-2010 till date

Research Guidance Awarded 12; Guiding 15; Evaluated PhD Thesis under JNTUH in Feb, 2010 List of M.E. Project Guided = 20

Awards

- 1) "Engineer Award" by the Vaishu Engg. Industry in 1986.
- 'Distinguish Teacher Award' in Department of Mechanical Engineering, CBIT in 2002, with cash prize of Rs 5000/-
- 2) "Second Best Teacher Award", in CBIT in 2016, with cash prize of Rs 7,500/-

Courses Handled at Under Graduate / Post Graduate Level. All subjects related to thermal engineering-33 for undergraduate course; Four subjects for PG course in Thermal Engineering and handled laboratories concerned to Thermal Engineering independently.

No. of Papers Published National Journals - 38 International Journals - 276 National Conference - 36 International Conference - 35

Projects Carried out Research Project

- 1) AICTE project entitled "Studies on air gap insulated piston", with financial assistance of 7.7 lakhs was sanctioned in December 1995, and completed the project in 2002. Dr. M.V.S. Murali Krishna was coordinator for this project

Consultancy Project

- 1) DRDO Project entitled "Structural and Thermal Stability for War tunnels" with financial assistance sanctioned of 9.90 Lakhs. 2021

MODROB Project

- 1) Coordinator for the MODROB Project in March 2012. 8024/RIDF/MOD-53(Pvt)/Policy-III/2011-12 for 5lakhs on Applied Thermodynamics lab
- 2) Coordinator for the MODROB Project in ROB/ POLICY-I/2019-20 Letter dated 20.07.2020, on Thermal Systems Lab, Rs 9,94,725.

Patents

- 1) Control on Pollution Levels of Petrol Engine with Low Cost Catalytic Converter, Date of filing of Application :04/10/2021, Publication Date : 05/11/2021, The Patent Office Journal No. 45/2021 Dated 05/11/2021, 52288
- 2) Control of Exhaust Emissions of Auto Rickshaw Engine run with diesel fuel, Date of filing of Application :04/10/2021, Publication Date : 05/11/2021, The Patent Office Journal No. 45/2021 Dated 05/11/2021, 52289
- 3) Insulated Partially Adiabatic Diesel Engine operated with Methanol and Vegetable Oil, Date of filing of Application :04/10/2021, Publication Date : 05/11/2021, The Patent Office Journal No.45/2021 Dated 05/11/2021 52290
- 4) Control of pollutant levels of insulated diesel engine operated with CNG and ethanol. Date of filing Application 06/07/2022, Date of publishing- 15/07/2022, Application No. 202241038958.A
- 5) Control of aldehydes in high grade insulated diesel engine with low cost catalytic Converter, Date of filing application 06/07/2022, Date of publishing-15/07/2022, Application No. .202241039527.A
- 6) Control of aldehydes in medium grade insulated diesel engine with inexpensive Catalytic converter, Date of filing Application 06/07/2022, Date of publishing 15/07/2022, Application No. 202241039528.A
- 7) High degree insulated engine having optimized air gap thickness run with alternative fuel, Date of filing Application 06/07/2022, Date of publishing 15/07/2022, Application No 202241039529.A
- 8) Spark ignition engine with copper coated piston, copper coated liner and copper coated cylinder head, Date of filing Application 06/07/2022, Date of publishing 15/07/2022, Application No 202241039530.A
- 9) Insulated diesel engine fuelled with carbureted ethanol and waste plastic oil to reduce pollution levels, Date of filing Application 06/07/2022, Date of publishing 22/07/2022, Application No. 202241038957 A.
- 10) Enhancement of Transfer of heat in a corrugated heat exchanger, Date of filing Application 06/07/2022, Date of publishing 22/07/2022, Application No 202241038959 A.
- 11) Control of pollutant levels of insulated Diesel engine operated with CNG and carbureted methanol, Date of filing Application 06/07/2022, Date of publishing 22/07/2022, Application No 202241038960 A
- 12) Diesel engine with Different levels of Insulation for Controlling pollution levels, Date of filing Application 06/07/2022, Date of publishing 22/07/2022, Application No 202241038961 A

Technology Transfer

Nil

Invited Speaker

"Alcohol Engines", A two-day workshop on Alternative Liquid Fuels, Chaitanya Bharathi Institute of Technology February 17, 2017

No. of Books/Chapter Published

1) Reduction of pollutants in 2-stroke petrol engine, with details Advanced Aspects of Engineering Research Vol. 9, Print ISBN: 978-93-90888-74-0, eBook ISBN: 978-93-90888-79-5, May 2021, DOI: 10.9734/bpi/aaer/v9/2004F

2) Investigations on exhaust emissions of a low heat rejection diesel engine with alternative fuels, Challenging Issues On Environment And Earth Science, Chapter-11, Print ISBN: 978-93-91473-65-5, eBook ISBN: 978-93-91473-68-6, 2021, DOI: 10.9734/bpi/ciees/v6/11298D

3) Influence of injector opening pressure on exhaust emissions in insulated diesel engine, Current Approaches in Science, Technology and Research, Chapter-8, ISBN: 978-93-91595-94-4, eBook ISBN: 978-93-91595-99-9, Volume-13, August, 2021, DOI: 10.9734/bpi/castr/v13/1794C

4) Determining the performance parameters of carbureted butanol and plastic oil blended with diethyl ether, Novel Perspectives of Engineering Research Vol. 5, ISBN: 978-93-5547-418-6, eBook ISBN: 978-93-5547-419-3 2021, DOI: 10.9734/bpi/nper/v5/15136D

5) Evaluation of exhaust emissions of a semi-adiabatic diesel engine with plastic oil, Chapter-07, Technological Innovation in Engineering Research Vol. 1 Print ISBN: 978-93-5547-370-7, eBook ISBN: 978-93-5547-378-3, May 2022, DOI: 10.9734/bpi/tier/v1/6149F

6) Determination of performance of a semi-adiabatic diesel engine with plastic oil, Chapter-06, Technological Innovation in Engineering Research Vol 1, Print ISBN: 978-93-5547-370-7, eBook ISBN: 978-93-5547-378-3, May 2022, DOI: 10.9734/bpi/tier/v1/2122A

7) Investigations on exhaust emissions on, Chapter-05, Research Developments in Science and Technology Vol. 7 Print ISBN: 978-93-5547-745-3, eBook ISBN: 978-93-5547-746-0, May 2022, DOI: 10.9734/bpi/rdst/v7/2256A

8) Experimental investigations on performance and emissions of spark ignition engine, Chapter-03, Print ISBN: 978-93-5547-480-3, eBook ISBN: 978-93-5547-492-6, Technological Innovation in Engineering Research, Volume-04, June 2022, DOI: 10.9734/bpi/tier/v4/2837B

9) Performance of a semi-adiabatic diesel engine fuelled with jatropha based biodiesel, Chapter-11, Print ISBN: 978-93-5547-480-3, eBook ISBN: 978-93-5547-492-6, Technological Innovation in Engineering Research, Volume-04, June 2022, DOI: 10.9734/bpi/tier/v4/2463A

Books Reviewed

i) Reviewed few chapters of book titled 'Thermal Engineering' Tata McGraw Hills, New Delhi, 2011

ii) Reviewed few chapters of book titled 'Thermal Engineering' by Mahesh M Rathor, Tata McGraw Hills, New Delhi, November, 2013.

Reviewer for International Journals:

i) ASME International Journal of Mechanical Engineering Science,

ii) International Journal- Journal of Petroleum and Gas Engineering,

iii) International Journal of Engineering (Iranian),

iv) International Journal of -African Journal of environmental science & Technology,

v) International Journal of Recent Advances in Mechanical Engineering (IJMECH)

vi) Journal of Petroleum and Gas Exploration Research (JPGER),

vii) International Journal of Renewable Energy Research

viii) Renewable and Sustainable Energy Reviews (Elsevier Publication)

ix) International Journal of Computational and Applied Research in Mechanical Engineering, (Iranian),

x) International Journal of Advances in Mechanical Engineering,

- xi) International Journal of Mechanical Engineering
- xii) International Journal of Combustion
- xiii) International Journal of Energy Institute (Elsevier Publications)
- xiv) Energy, (Elsevier Publications)
- xv) Journal of Mechanical Engineering, Jordon
- xvi) Tribology International (Elsevier)international Journal of Ambient Energy (Francis and Taylor Publication)
Journal of Thermal Engineering (Elsevier Publication)

Articles reviewed in International Journals
2017 onwards

- 1) Dr M V S Murali Krishna reviewed a research article From 2017 onwards) entitled, " Impact of biodiesel B100 on a small agricultural diesel engine" for the suitability of publication in Tribology International (Elsevier Publication), March, 2018
- 2) Dr M V S Murali Krishna reviewed a research article entitled, " Studies on LHR engine with dual fuels," for suitability of publication in International Journal of Ambient Energy, (Francis and Taylor Publication), September, 2018
- 3) Dr M V S Murali Krishna reviewed a research article entitled, " Engine performance and emissions of fuel produced from kernel oil," *International Journal of Energy,(Elsevier Publications),.September, 2018*
- 4) Dr. M.V.S.Murali Krishna reviewed a research article entitled " Performance and emission properties of pre-heat and blended funnel vegetable oil in a ceramic coated diesel engine", Energy, (Elsevier Publications), November, 2018
- 5) DrM.V.S.Murali Krishna reviewed a research article "Investigation of using pump kin seed oil methyl ester as fuel in a boron coated diesel engine", *Energy (Elsevie Publications), May, 2019*
- 6) Dr M V S Murali Krishna reviewed a research article "Investigations on biodiesel", Journal of Ambient Energy (Francis and Taylor Publications) , January, 2020.
- 7) Dr M V S Murali Krishna reviewed a research article entitled, "Investigation of performance of CI engine fuelled with platic pyrolysis of operfiated under modified engine operated parameters obtained using DOE method," for the suitability of publication in International Journal of Ambient Energy (Francies and Tayor Publications), September, 2020.
- 8) Dr M V S Murali Krishna reviewed a research article entitled, Comparative experimental study on the performance and emission characteristics of ethanol - diesel blends fuelled semi-adiabatic diesel engine, "*International Journal of Ambient Energy* (Francies and Tayor Publications), Aprial 2021.
- 9)Dr. M.V.S.Murali Krishna reviewed a research article entitled," Comparative experimental study on performance and emission characteristics of ethanol-diesel blends fuelled semi-adiabatic diesel engin *International Journal of Ambient Energy* (Francies and Tayor Publications), July, 2021.
- 10)Dr. M.V.S.Murali Krishna reviewed a research article entitled," Passive way of heat transfer by conical strip inserts and nano fluids for improving the thermal *performance of forced convection system Journal of Thermal Engineering,* (Elseveir Publications), November, 2021

Editorship for Journals

- 1) Joint Editor for 'Journal of Current Sciences', Dumka, Jharkhand State
- 2) Editor for 'Journal of Experimental & Applied Mechanics', STM Journals, UP, Indi

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

- 1) Attended one week Faculty Development Program on Faculty "Emerging Research Areas in Mechanical Engineering," CMR-TC, Hyderabad, during 29.06.2020 to 03.07.2020
- 2) Attended one week Faculty Development Training Program on "Enhancing and Research and Consultancy Skills", during 22.06.2020 to 26.06.2020, Rajarambabu Institute of Technology, Sakharale, Sanli, Maharashtra.
- 3) Attended one week Faculty Development Training Program on "Industry 4.0-A Vision Of Design And Manufacturing" during 16.06.2020 to 20.06.2020, Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad.
- 4) Attended one week Faculty Development Training Program on "Outcome Based Education and NBA Accreditation Process (UG) during 28.05.2020 to 01.06.2020, Chaitanya Bharathi Institute of Technology, Hyderabad.

International/National Journals from the Year 2017

1. Vamsi Krishna Kolli, Sastry Gadepally, John Deb Barma, Murali Krishna Maddali, Sreeran Baratulla and Naresh Kumar Reddy Siddavatam, (2019), Establishment of lower exhaust emissions by using EGR coupled low heat loss diesel engine with fuel blends of micro-algae biodiesel oxygenated additive DEE antioxidant DPPD, Thermal Science and Engineering Progress, ISSN: 2451-9049, October, 13, 100401, <https://doi.org/10.1016/j.tsep.2019.100401>, (Elsevier Publications).
2. K.N.V.Sreedevi, M.V.S.Murali Krishna, Sunayana and Bhoomica (2019), Effect of EGR on performance of CI engine with diesel and cottonseed oil as fuels, International Journal of Mechanical and Production Engineering Research and Development, ISSN: 2249-80011, 9)5, 973-984
3. K.Laxmi, K.N.V.Sreedevi and M.V.S.Murali Krishna, (2019), Control of pollution levels in insulated diesel engine, International Journal of Energy, Ecology and Conservation, ISSN-0971-765X, Special Issue, November, 25, pp S 225-S231.
4. G.Sainna, M.V.S.Murali Krishna and P.Usha Sri, (2020), Experimental investigations on semi adiabatic diesel engine with exhaust gas recirculation fuelled with tamarind biodiesel, International Journal of Production Technology & Management, ISSN Print: 0976- 6383, January-June, 11(1), 8-21. (UGC Approved, Impact factor 7.2150)
5. Maddela Sai Krishna Kanth, M.V.S.Murali Krishna and Sankhe Narasimhulu, (2020) Experimental investigations on exhaust emissions with biodiesel blended with nano particles in CI engine, International Journal of Production Technology & Management, ISSN Print: 0976- 6383, January-June, 11(1), 22-31 (UGC Approved, Impact factor 7.2150)
6. B.Taraji Naik and M.V.S.Murali Krishna, (2020), Study on processing of waste plastic oil from micro plastic waste collection to prepare biodiesel, Journal of Engineering Sciences, ISSN : 0377-9254, January, 11(1), 331-335. (UGC Approved, Impact factor=6.54)
7. Ipsita Mohanti, M V S Murali Krishna, and M.Ravi Chandra, (2020, Butanol blend reduces pollutants in spark ignition engine, International Journal of Mechanical and Production Engineering Research and Development, April 10(2), 1031-1038. (Impact factor=8.87)
8. Yerramsetty Nagini, Maddali V S Murali Krishna and S.Naga Sarada (2020), Reduction of pollutants in SI engine with varied ignition timing, International Journal of Automobile Engineering Research & Development ISSN: ISSN: 2277-4785; June, 10(3), 59-66. (Impact Factor 5.8)
9. Yerramsetty Nagini, Maddali V S Murali Krishna and S.Naga Sarada (2020), Impact of spark ignition timing on pollutants of modified combustion chamber of SI engine, International Journal of Mechanical and Production Engineering Research and Development, ISSN: 2249-6890, June, 10(3), 1131-1138. (Impact factor=8.87)
10. G.Sainna, M.V.S. Murali Krishna, P.Usha Sri and M.Ravi Chandra, (2020), Experimental investigations on exhaust emissions of semi-adiabatic diesel engine with exhaust gas recirculation, International Journal of Pollution Research, ISSN:0257-8050, June, 39(3), 172-178.
11. N.Venkateswara Rao and M V S Murali Krishna (2020), Control of exhaust emissions in catalytically activated SI engine with induction of magnetism, International Journal of Mechanical and Production Engineering Research and Development, ISSN: 2249-6890, June, 10(3), 1273-1280. (Impact factor=8.87)
12. N.Janardhan, M. Ravi Chandra and M.V.S.Murali Krishna, (2017), Experimental investigations on DI diesel engine with high grade insulated combustion chamber with varied injection timing, International Journal of Current Engineering and Technology, ISSN:2347-5161, August, July 7(4), 1482-1489. (Impact factor=6.125)
13. D.Srikanth, M.V.S. Murali Krishna, P.Usha Sri and M.Ravi Chandra, (2017), Experimental investigations on pollution levels of low heat rejection diesel engine with varied air gap thickness, International Journal of Innovation in Engineering and Management, ISSN: 2319-847, July, 6(7), 218-226. (Impact factor=7.319)
14. D.S.Madhuri, M.Ravi Chandra and M.V.S. Murali Krishna, (2017), Influence of injection pressure on performance parameters of semi adiabatic diesel engine with crude vegetable oil with magnetic induction, International Journal of Research in Science, Engineering and Technology, ISSN: 2394- 739X, August, 62-71, 4(7), (Impact factor=6.209)

15. R.Chanakya, D.Srikanth, M.Ravi Chandra and M.V.S. Murali Krishna, (2017), Experimental investigations on low grade low heat rejection diesel engine with crude cottonseed oil with butanol, *International Journal of Current Engineering and Technology*, ISSN:2347-5161, August, 7(4), 1589- 1597. (Impact factor=6.125)
16. D.Srikanth, M.V.S. Murali Krishna, P.Usha Sri and M.Ravi Chandra, (2017), Experimental investigations on performance parameters with low heat rejection diesel engine with varied air gap thickness, *International Journal of Current Engineering and Technology*, ISSN:2347-5161, August, 7(4), 1598- 1604(Impact factor=6.125)
17. D.S.Madhuri, M. Ravi Chandra and M.V.S. Murali Krishna, (2017), Experimental investigations on exhaust emissions with low heat rejection diesel engine with crude vegetable oil with magnetic induction, *International Journal of Thermal Technologies*, ISSN: 2277 – 4114, September, 7(3), (Impact factor= 3.110)
18. D.Srikanth, M.Ravi Chandra and M.V.S. Murali Krishna, (2017), Control of exhaust emissions of low grade low heat rejection diesel engine with cottonseed oil blended with butanol, *International Journal for Research in Science, Engineering and Technology*, ISSN:2394-739X, October, 4(10), 1-8(Impact factor=0.833)
19. K.N.V.Sridevi, P.Radha Krishna Prasad, M.V.S. Murali Krishna and Jaswanth Nag Gangireddy, (2019), Modeling and analysis of a disc brake, *International Journal of Science and Research*, ISSN:2319-7064, February, 8(2),874-879. (Journal Impact factor-7.426)
20. Ravi Kumar Kotturi, M.V.S.Murali Krishna, B.Sudhher Prem Kumawr and M.Ravi Chandra, Control of pollutants in supercharged partially adiabatic diesel engine with carbureted methanol and crude karanja oil blended with DEE, *International Journal of Ambient Energy*, ISSN <https://doi.org/10.1080/01430750.2019.1567587> (Francis and Taylor Publications)
21. M.V.S.Murali Krishna, S.Narasimha Kumar, K.Vamsi Krishna, and Sri Ram Bharathula, (2019), Experimental investigation on SI engine emissions via EGR and catalytic converter with air injection mechanism, *Journal of Mechanical Engineering*, ISSN 1823- 5514 , April, 16(1), 33-46. (Scopus Index, Malasian Journal)
22. Y.Nagini, M.V.S.Murali Krishna and S.Naga Sarada, (2019), Thermal analysis of modified combustion chamber of spark ignition engine, *International Journal of Mechanical Engineering & Technology*, ISSN: 0976-6340, May,10(5), 75-82. (Scopus Index)
23. R.P. Chowdary, M.Ravi Chandra and M.V.S.Murali Krishna,Effect of air gap thickness on exhaust emissions of partially adiabatic diesel engine with tamarind biodiesel , *International Journal of Pollution Research*, ISSN: 0257-8050,38(2), 254-260.I
24. K. Vamsi Krishna, G Ravi Kiran Sastry, M.V.S. Murali Krishna, John Deb Barma, (2018), Investigation on performance and emission characteristics of EGR coupled semi adiabatic diesel engine fuelled by DEE blended rubber seed biodiesel, *International Journal of Engineering Science & Technology*,February, Elsevier Publications<https://doi.org/10.1016/j.jestch.2018.02.010>, 21, 122–129.
25. K.V.Krishna, G.R.K.Sastry and M.V.S.M.Krishna, (2018), Analysis of EGR coupled less heat rejection model of diesel engine with blends of jatropha biodiesel, diesel and diethyl ether: an experimental approach, *International Journal of Automotive and Mechanical Engineering*, ISSN: 2229- 8649 , March, 15(1),DOI: <https://doi.org/10.15282/ijame.15.1.2018.15.0394>, 5097-5109 (Scopus Journal) (Malaysian Journal)(Impact factor=1.6)
26. Ch.Indira Priyadarsini, M.V.S.Murali Krishna and P.Usha Sri, (2018), Effect of copper coated piston on thermal and structural stability of four stroke SI engine combustion chamber, *International Journal of Innovating Research & Studies*, ISSN: 2319-9725, May, 8(5), 4-9.(Impact Factor=5.50)
27. R.P.Chowdary and M.V.S. Murali Krishna, (2018), Experimental investigations on performance parameters on DI diesel engine with alternative fuels, *International Journal of Emerging Technologies and Innovative Research*, ISSN:2349-5162, 5(6), 287-292.(Impact Factor=5.87, UGC Approved]
28. 28) Gangaraju Srinivasa Sharma and M.V. S. Murali Krishna, (2018), Theoretical analysis of off design performance characteristics of single shaft gas turbine for power generation using biomass gasified fuel, *International Journal of Modern Engineering and Research Technology*, ISSN: 2348-8565, June,5,Special Issue, 51–58.
29. 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)
30. Ch.Indira Priyadarsini, M.V.S.Murali Krishna, Ipsita Mohanti, Y.Nagini, S.Narasimha Kumar and K.Kishor, (2018), Control of exhaust emissions from copper coated spark ignition engine with butanol blended gasoline with catalytic converter with different catalysts, *Pollution Research*, ISSN: 0257-8050, December, 37(4),278- 282, (Scopus index journal)
31. Gangaraju Srinivasa Sharma and M.V. S. Murali Krishna, (2018), Theoretical analysis of off design performance characteristics of single shaft gas turbine for power generation using biomass gasified fuel, *International Journal of Modern Engineering and Research Technology*, ISSN: 2348-8565, June,5,Special Issue, 51–58.
32. N.VenkateswaraRao, M.V.S.Murali Krishna, R.PeraiahChowdary, N.Janardhan, V.V.R.SeshagiriRao and T.Ratna Reddy (2018), Experimental investigations on pollution levels from supercharged partially adiabatic diesel engine with tamarind biodiesel blended with diethyl ether, *International Journal of Pollution Research*, ISSN: 0257-8050, December, 37(4),235-240. (Scopus index journal) (Impact factor-4.8)
33. Ch.IndiraPriyadarsini, M.V.S.Murali Krishna, IpsitaMohanti, Y.Nagini, S.Narasimha Kumar and K.Kishor, (2018), Control of exhaust emissions from copper coated spark ignition engine with butanol blended gasoline with catalytic converter with different catalysts, *International Journal of Pollution Research*, ISSN: 0257-8050, December, 37(4),278-282, (Scopus index journal) (Impact factor-4.8)
34. K.N.V.Sridevi, P.Radha Krishna Prasad, M.V.S. Murali Krishna and Jaswanth Nag Gangireddy, (2019), Modeling and analysis of a disc brake, *International Journal of Science and Research*, ISSN:2319-7064, February, 8(2),874-879.(Impact factor-7.426)

35. Ravi Kumar Kotturi, M.V.S.Murali Krishna, B.SudhherPremKumawr and M.Ravi Chandra, Control of pollutants in supercharged partially adiabatic diesel engine with carbureted methanol and crude karanja oil blended with DEE, *International Journal of Ambient Energy*, March 2019, ISSN: <https://doi.org/10.1080/01430750.2019.1567587> (Francis and Taylor Publications) (Impact factor 1.74)
36. M.V.S.Murali Krishna, S.Narasimha Kumar, K.Vamsi Krishna, and Sri Ram Bharathula, (2019), Experimental investigation on SI engine emissions via EGR and catalytic converter with air injection mechanism, *Journal of Mechanical Engineering*, ISSN 1823- 5514 , April, 16(1), 33-46. (Scopus Index, Malasian Journal) (Journal impact factor 2.667)
37. Y.Nagini, M.V.S.Murali Krishna and S.NagaSarada, (2019), Thermal analysis of modified combustion chamber of spark ignition engine, *International Journal of Mechanical Engineering & Technology*, ISSN: 0976-6340, May, 10(5), 75-82.(Scopus Index) (impact factor= 9.226)
38. R.P. Chowdary, M.Ravi Chandra and M.V.S.Murali Krishna, (2019), Effect of air gap thickness on exhaust emissions of partially adiabatic diesel engine with tamarind biodiesel , *International Journal of Pollution Research*, ISSN: 0257-8050, February, 38(2), 254-260.(Impact factor=4.87)
39. Vamsi Krishna Kolli, SastryGadepally, John Deb Barma, Murali Krishna Maddali, SreeranBaratulla and Naresh Kumar Reddy Siddavatam, (2019), *Establishment of lower exhaust emissions by using EGR coupled low heat loss diesel engine with fuel blends of micro-alge biodiesel oxygenated additive DEE antioxidant DPPD*, *Thermal Science and Engineering Progress*, ISSN: 2451-9049, October, 13, 100401, <https://doi.org/10.1016/j.tsep.2019.100401>, (Elsevier Publications). (Journal impact factor-1.1)
40. K.N.V.Sreedevi, M.V.S.Murali Krishna, Sunayana and Bhoomica (2019), Effect of EGR on performance of CI engine with diesel and cottonseed oil as fuels, *International Journal of Mechanical and Production Engineering Research and Development*, ISSN: 2249-80011, October, 9(5), 973-984 (Scopus Indexed)(Impact factor-8.8)
41. K.Laxmi, K.N.V.Sreedevi and M.V.S.Murali Krishna, (2019), Control of pollution levels in insulated diesel engine, *International Journal of Energy, Ecology and Conservation*, ISSN-0971-765X, (Scopus index), Special Issue, November, 25, S225-S231.(Impact factor=4.89)
42. G.Sainna, M.V.S.Murali Krishna and P.Usha Sri, (2020), Experimental investigations on semi adiabatic diesel engine with exhaust gas recirculation fuelled with tamarind biodiesel, *International Journal of Production Technology & Management*, ISSN Print: 0976- 6383, January-June, 11(1), 8-21.(UGC Approved, Impact factor7.2150)
43. MaddelaSai Krishna Kanth, M.V.S.Murali Krishna and SankheNarasimhulu, (2020) Experimental investigations on exhaust emissions with biodiesel blended with nano particles in CI engine, *International Journal of Production Technology & Management*, ISSN Print: 0976- 6383, January-June, 11(1), 22-31 (UGC Approved, Impact factor 7.2150)
44. B.TarajiNaik and M.V.S.Murali Krishna, (2020), Study on processing of waste plastic oil from micro plastic waste collection to prepare biodiesel, *Journal of Engineering Sciences*, ISSN : 0377-9254, January, 11(1), 331-335. (UGC Approved, Impact factor=6.54)
45. IpsitaMohanti, M V S Murali Krishna, and M.Ravi Chandra, (2020), Butanol blend reduces pollutants in spark ignition engine, *International Journal of Mechanical and Production Engineering Research and Development*, ISSN: 2249-6890, April 10(2), 1031-1038.(Impact factor=8.87)
46. YerramsettyNagini, Maddali V S Murali Krishna and S.NagaSarada (2020), Reduction of pollutants in SI engine with varied ignition timing, *International Journal of Automobile Engineering Research & Development* ISSN: ISSN: 2277-4785; June, 10(3), 59-66. (Impact Factor 5.8)
47. YerramsettyNagini, Maddali V S Murali Krishna and S.NagaSarada (2020), Impact of spark ignition timing on pollutants of modified combustion chamber of SI engine, *International Journal of Mechanical and Production Engineering Research and Development*, ISSN: 2249-6890, June, 10(3), 1131-1138. (Impact factor=8.87)
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49. N.VenkateswaraRao and M V S Murali Krishna (2020), Control of exhaust emissions in catalytically activated SI engine with induction of magnetism, *International Journal of Mechanical and Production Engineering Research and Development*, ISSN: 2249-6890, June, 10(3), 1273-1280.(Impact factor=8.87)
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