

Name of Faculty Dr V V R SESHAGIRI RAO  
 Designation Associate Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 24-05-2005  
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Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Mechanical Engineering)	Completed
PG	Ms. Tech (Thermal & Fluids Engineering) from IITB	Distinction
UG	BE (Mechanical Engineering) (Chemical Engineering)	Distinction

**Work Experience**

Teaching	30 Years (Includes research experience)
Research	14 years
Industry	--
Others	--

Area of Specialization Internal Combustion Engines, Alternative Fuels

Professional Memberships Life Member of Indian Society of Technical Education (ISTE) (LM2348)

Responsibilities held at Institution Level  
 1. Assistant Controller of Examinations (Evaluation) since January 2019.  
 2. ISO coordinator for Mechanical Engineering Department.

Responsibilities held at Department Level  
 1. Member – Board of Studies  
 2. Coordinator - Course Expert Group - Thermal Engineering Stream.

Research Guidance --

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Thermodynamics; Applied Thermodynamics; Applied Thermodynamics and Heat Transfer; Refrigeration and Air-conditioning; Thermal Turbo Machines; Advanced Thermodynamics;

No. of Papers Published National Journals – 08 International Journals – 22

National Conference – 02 International Conference – 01

Projects Carried out --

Patents  
 1. Dr. M.V.S. Murali Krishna, Dr. N.Janardhan, Dr. R.P. Chowdary, Dr. V.V. R. Seshagiri Rao, A process Patent published with File No.: 202141044970 A, date of filing of application 04/10/2021 and Publication date: 05/11/2021 with title of Invention as Reduction of pollution levels in insulated partially adiabatic Diesel Engine operated with Methanol And vegetable oil.  
 2. Dr. M.V.S. Murali Krishna, Dr. T.Ratna Reddy, Dr. R.P. Chowdary, Dr. V.V. R. Seshagiri Rao, A process Patent published with File No.: 202241039528 A, date of filing of application 06/07/2022 and Publication date: 15/07/2022 with title of invention as Control of Aldehydes in medium grade insulated Diesel engine with Inexpensive catalytic converter.

3. M.V.S. Murali Krishna, R.P. Chowdary, V.V. R. Seshagiri Rao, N.Janardhan, A process Patent published with File No.: 202241038961, date of filing of application 06/07/2022 and Publication date: 15/07/2022 with title of Invention as Diesel engine with different levels of insulation for controlling pollution levels.

Technology Transfer --

Invited Speaker --

- No. of Books/Chapter Published with details
1. Book published by National Level publishers, with ISBN/ISSN number: "Proceedings of National workshop programme on Alternate Liquids fuels in IC engines, ISBN 978-93-85518-11-9".
  1. Coordinator for the TEQIP-II sponsored "A Two-Day National Workshop Programme on Alternative Liquid Fuels in I.C.Engines conducted at CBIT, Hyderabad during 17-18, February 2017.
  2. 1-week STTP on "CNC & Robotics Programming in Manufacturing Industries" organized by Department of Mechanical Engineering, JNTU, Kakinada during 2nd -7th July 2018 (Sponsoring Agency: TEQIP)

Details of Journal Publications/  
Conferences (National and  
International)

**International/National Journals from the year 2017**

1. S.Narasimha Kumar, V.V.R.Seshagiri Rao, "Experimental Investigation On Performance Characteristics of Four Stroke Ceramic Coated Diesel Engine Operatinig on Linseed Oil Biodiesel", Gradiva Review Journal, ISSN No.0363-8057, Volume 8, Issue 5, 875-895, May 2022.
2. V.V.R.Seshagiri Rao, M.V.S.Murali Krishna, R.P.Chowdary 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, 428-446, May 2022.
3. D.S.Madhuri, V.V.R.Seshagiri Rao, "A Review on Electric Vehicles with respect to Range, Maximum Power and Charging Timet", GIS Science Journal, ISSN No. 1869-9391, Volume 9, Issue 4, 610-616, April 2022.
4. V.V.R.Seshagiri Rao, Bairi Levi Rakshith, "Analysis of Failure, Die Temperatures and Pressure Field of Casting Die Using Ansys Software", International Journal of Innovative Science and Research Technology, ISSN No. 2456-2165, Volume 6, Issue 8, August 2021.
5. V.V.R.Seshagiri Rao, Bairi Levi Rakshith, "Evaporative Condenser Performance Analysis in VCRS with R-134A as Refrigerant", International Journal of Engineering Applied Sciences and Technology, ISSN No. 2455-2143, Volume 6, Issue 3, 204-206, July 2021.
6. V.V.R.Seshagiri Rao, Ch.Indira Priyadarshini, B.Levi Rakshith, "Laminar Free Convection From a Heated Square Cylinder in Bingham Plastic Fluids", The International Journal of Analytical and Experimental Modal Analysis, ISSN:0886-9367, Volume XIII, Issue VI, 754-761, June 2021.
7. V.V.R.Seshagiri Rao, P.V.R.Ravindra Reddy, "Regression Analysis for Estimation of Outer Surface Finish with the Variation of Feed Rate and Stagger of a Flow Formed Component", GIS Science Journal, ISSN:1869-9391, Volume 8, Issue 6, 1842-1847, June 2021.
8. S.Narasimha Kumar, V.V.R.Seshagiri Rao, "Experimental study on Performance characteristics of catalytic coated Spark Ignition engine with alcohol fuels with catalytic converter", Pensee Journal, ISSN:0031-4773, Volume 51, Issue 6, 850-856, June 2021.
9. V.V.R.Seshagiri Rao, S.Narasimha Kumar, "Emission Characteristics of Diesel Engine with Dual Fuel Operation", The International Journal of Analytical and Experimental Modal Analysis, ISSN:0886-9367, Volume XIII, Issue VI, 2301-2307, June 2021.
10. Dr V.V.R. Seshagiri Rao, P. Anjani Devi, "Design And Numerical Study of Piston for Different Aluminum Alloys", NOVIY MIR Research Journal, ISSN 0130-7673, Volume 6, issue 6, 252 to 257, June-2021.
11. P Anjani Devi, Dr G Laxmaiah ,K Y Sreeram, Dr V V Seshagiri Rao, "Fatigue and Dynamic Analysis of Control Arm", NOVIY MIR Research Journal, ISSN 0130-7673, Volume 6, issue 6, 123-130, June-2021.
12. V.V.R.Seshagiri Rao, "Performance Parameters of Diesel Engine with Jaropha-Methanol Operation at Different Injection Timings and Injector Opening Pressures", Alochana Chakra Journal. ISSN : 2231-3990,Volume IX, Issue VI, 6427-6433, June 2020.
13. V.V.R.Seshagiri Rao, R.P.Chowdary, "Pollution Levels of Diesel Engine With Vegetable Oil-Alcohol Operation at Different Injection Timings", The International Journal of Analytical and Experimental Modal Analysis, ISSN:0886-9367, Volume XII, Issue VI, 1424-1428, June 2020.
14. K.Kishor, V.V.R.Seshagiri Rao, "FE Thermal Analysis of Liner of a 2-Stroke Copper Coated SI Engine", Alochana Chakra Journal. ISSN : 2231-3990,Volume IX, Issue VI, 6400-6406, June 2020.

15. V.V.R.Seshagiri Rao, K.Kishor, "Emissions Characteristics of Diesel Engine With Jaropha-Methanol Operation at Different Injector Opening Pressures", Alochana Chakra Journal. ISSN : 2231-3990, Volume IX, Issue VI, 5907- 5912, June 2020.
16. R.P.Chowdary, V.V.R.Seshagiri Rao, "Performance of Used Cooking Oil Based Biodiesel in a Low Heat Rejection Diesel Engine", International Journal of New Innovations in Engineering and Technology, Volume 13, Issue 3, 19-25, April 2020.
17. V.V.R.Seshagiri Rao, "Evaluation of Performance Parameters And Combustion Characteristics Of A Diesel Engine With Vegetable Oil Operation", Journal Of Emerging Technologies and Innovation Research, ISSN: 2349-5162, Volume 6, Issue 6, 234-242, June 2019.
18. V.V.R.Seshagiri Rao, "Comparative Analysis of Crude Jatropha Oil-Methanol operation in DI Diesel Engine", International Journal of Recent Innovation in Engineering and Research, ISSN:2456-2084, Volume 3, Issue 6, 26-33, June 2018.
19. V.V.R.Seshagiri Rao, "Effects Of Preheated Crude Jatropha Oil On Performance And Emissions Of DI Diesel Engine", International Journal of latest Trends in Engineering and Technology, ISSN:2319-3778, Volume 10, Issue 2, 071-076, April 2018.
20. V.V.R. Seshagiri Rao, "Experimental investigations on performance evaluation of DI diesel engine with crude jatropha oil with varying injection timings and injection pressures", Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Volume 5, Issue 4, 305-312, April 2018.
21. V.V.R. Seshagiri Rao, "Experimental investigations on performance, emissions and combustion characteristics of conventional diesel engine with non-edible vegetable oil operation at varying injection timings", International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 6, Issue 1, 420- 429, March 2018.
22. 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:1075-1079, Volume 37, Issue 4, 1075-1079, December 2018.

