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| 1 | Name of Faculty | Dr V V R Seshagiri Rao | |  |
| 2 | Designation | Associate Professor | | |
| 3 | Nature of Job/Appointment | Regular | | |
| 4 | Date of Joining | 24-05-2005 | | |
| 5 | E-mail | seshagirirao_mech@cbit.ac.in | | |
| 6 | Education Qualifications | Name of the Degree | Class | |
| | Ph. D | Doctor of Philosophy (Mechanical Engineering) | Awarded | |
| | PG | M. Tech (Thermal & Fluids Engg) from IITB | CGPA of 8.02 | |
| | UG | B. Tech (Mechanical Engg.) | First Class | |
| 7 | Work Experience | | | |
| | Teaching | 28 Years | | |
| | Research | 12 years | | |
| | Industry | -- | | |
| | Others | -- | | |
| 8 | Area of Specialization | Internal Combustion Engines, Alternative Fuels | | |
| 9 | Professional Memberships | Life Member of Indian Society of Technical Education (ISTE) (LM23480) | | |
| 10 | Responsibilities held at Institution Level | 1. Assistant Controller of Examinations since January 2019 for a tenure of 2 years. 2. ISO coordinator for Mechanical Engineering Department. | | |
| 11 | Responsibilities held at Department Level | 1. Member – Board of Studies 2. Coordinator - Course Expert Group - Thermal Engineering Stream. | | |
| 12 | Research Guidance | --- | | |
| 13 | Awards Received | --- | | |
| 14 | Courses Handled at Under Graduate / Post Graduate Level. | UG | 1. Thermodynamics; 2. Applied Thermodynamics; 3. Applied Thermodynamics and Heat Transfer; 4. Refrigeration and Air-conditioning; 5. Thermal Turbo Machines; 6. Applied Thermodynamics Lab; 7. Applied Thermodynamics & Heat Transfer Lab; 8. Thermal Engineering Lab. | |
| | | PG | 1. Advanced Thermodynamics; 2. Thermal Systems Lab | |
| 15 | No. of Papers Published | National Journals – 08 | International Journals – 22 | |
| | | National Conference – 02 | International Conference – 01 | |
| 16 | Projects Carried out | ---- | | |
| 17 | Patents | ---- | | |
| 18 | Technology Transfer | ---- | | |
| 19 | Invited Speaker | <ol style="list-style-type: none"> Resource person for the DRDO Scientists during a special course on 'Basics of Mechanical Engineering for non-mechanical Personnel' and delivered lecture on 'Basics of I.C. Engines and Reciprocating Air Compressors', during 30th November – 4th December 2015 at RCI, Hyderabad. 'A Guest Lecture on Thermodynamics' on 14th October 2015 at Guru Nanak Institute of Technology, Hyderabad. Resource person for the DRDO Scientists during a special course on 'Basics of Mechanical Engineering for non-mechanical Personnel' and delivered lecture on 'Basics of I.C. Engines and Reciprocating Air Compressors', during 14-18th Nov 2011 at RCI, Hyderabad. Resource person for the DRDO Scientists during a special course on 'Basics of Mechanical Engineering for non-mechanical Personnel' and delivered lecture on 'Basics of I.C. Engines, Reciprocating Air Compressors and Basics of Refrigeration', during 22nd & 23rd Feb 2010 at RCI, Hyderabad. | | |
| 20 | 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". | | |

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| 21 | <p>Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).</p> | <p>Workshops Organized:</p> <ol style="list-style-type: none"> 1. Worked as a 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. Worked as a Coordinator for the TEQIP-II sponsored “A Two-Day National Workshop on Advances in Thermal Engineering (ATE-2014)” at CBIT, Hyderabad during 28-29th November 2014. <p>Workshops/Seminars Attended:</p> <ol style="list-style-type: none"> 3. One day Workshop on IOT, Offered by Kernel Sphere Technologies Pvt. Ltd., conducted at CBIT, Hyderabad, 20 Feb 2016. 4. One Day National Workshop on “Advanced trends in IC engines and combustion”, Organised by the Department of Mechanical Engineering, JNTUH College of Engineering, 28th February 2013. 5. Two Day workshop on “Nano Technology And Its Applications (NANO)-2012”, conducted by the Department of Mechanical Engineering, CBIT, Hyderabad (Sponsoring Agency: TEQIP), 27th and 28th February 2012. 6. A 2-week MHRD sponsored ISTE Workshop on “Heat Transfer”, conducted by IIT Bombay with MJCET, Hyderabad as the Nodal Centre during 29th November to 10th December 2011. 7. C.D.Cell Workshop On “Heat Exchangers Design And Optimization”, Organised by Department of Mechanical Engineering, Indian Institute of Technology, Delhi (Sponsoring Agency : AICTE), 26th March 2004. 8. Three Day Workshop on ‘Emerging Trends In Thermal Power Plant Design’, Department of Mechanical Engineering, Shanmugha College Of Engineering, Thanjavur, Tamilnadu (Sponsoring Agency: AICTE), 27-29 January 2000. <p>Orientation Course Attended:</p> <ol style="list-style-type: none"> 9. A 4-week UGC sponsored Orientation Course at Academic Staff College, Osmania University during 20.04.2009 to 15.05.2009. <p>Refresher Courses/FDPs / STTPs Attended :</p> <ol style="list-style-type: none"> 10. A 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). 11. A 2-day STTP on “Measurement Techniques in Thermal Engineering: Recent Advances” organized by Mechanical Engineering Department of IIT, Indore during 30-31 May 2014. 12. A 2-week AICTE sponsored FDP on “Finite Element Analysis And Practices Through ANSYS (FEAAPT-2014) organized by the Department of Mechanical Engineering, CBIT, Hyderabad during 17th to 29th March 2014. 13. A 3-week UGC sponsored Refresher Course on “Recent Advances in Thermal Engineering and their Applications”, organized by Academic Staff College, JNTUH, Hyderabad during 04-11-2013 to 25-11-2013. 14. A 1-day Short course on ‘Computational Fluid Dynamics on Graphics Processing Units (GPU) organized by IIT, Hyderabad on 8th October 2010. |
| 22 | <p>Details of Journal Publications/Conferences (National and International)</p> | |
| | <p>National Journals</p> <ol style="list-style-type: none"> 1. 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. 2. M. V.S. Murali Krishna, V. V. R. Seshagiri Rao, P. V. K. Murthy and T.K.K. Reddy, “Performance evaluation of low heat rejection diesel engine with carbureted ethanol and crude jatropha oil”, Indian Journal of Engineering and Material Sciences (CSIR), ISSN: 0975–4588, 18, 293–302, August, 2011. 3. M. V. S. Murali Krishna, T.K.K.Reddy, V.V.R. Seshagiri Rao and R.P. Chowdary, “Comparative studies of pollution levels of high grade insulated engine with jatropha oil and pongamia oil based bio-diesel”, Environment, Ecology and Conservation, ISSN: 0971–765X, 17(3), 575–579, 2011. 4. M.V.S. Murali Krishna, G.Sarita, V.V.R.Seshagiri Rao, R.P.Chowdary and Ch.V.Ramana Reddy, “Performance and emission characteristics of a low heat rejection engine with different air gap thicknesses with jatropha oil based bio-diesel”, Indian Journal of Environmental Science and Engineering, ISSN, 0367–827X, 52(2), 97–102, 2010. 5. M. V. S Murali Krishna, P.V. Krishna Murthy, R.P.Chowdary and V.V.R.Seshagiri Rao, “Matching of injection timing in high grade low heat rejection engine for improved performance with pongamia oil based bio-diesel”, Pollution Research, ISSN: 0257–8050, 28(2),171–180, 2009. | |

6. M. V. S Murali Krishna, P.V. Krishna Murthy, V.V.R.Seshagiri Rao and R.P.Chowdary, "Matching of injection timing in high grade low heat rejection engine for improved performance with jatropha oil based bio-diesel", Indian Journal of Environmental Protection, ISSN: 0972-6101, 29(1), 69-80, 2009.
7. M. V. S. Murali Krishna, S.Naga Sarada, G.Sudha Rani, K.Kalyani Radha and V.V.R.Seshagiri Rao, "A comparative study on exhaust emissions of a low heat rejection diesel engine with two different levels of insulation with carbureted methanol and crude pongamia oil", Pollution Research, ISSN: 02578050, 28(1), 93-96, 2009.
8. M. V. S. Murali Krishna, T.K.K.Reddy, V.V.R.Seshagiri Rao and R.P.Chowdary, "Performance and emission characteristics of a low heat rejection engine with different air gap thicknesses with pongamia oil based bio-diesel", Engineering Today, ISSN:0974-8377, 10(10), 17-27, 2008.

International Journals

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. M.V.S.Murali Krishna, V.V.R.Seshagiri Rao, T.Kishan Kumar Reddy and P.V.K. Murthy, "Performance evaluation of high grade low heat rejection diesel engine with carbureted alcohol and crude jatropha oil", Renewable and Sustainable Energy Reviews, ISSN: 1364-0321, ELSEVIER Publications, 36, 1-19, 2014.
12. M.V.S.Murali Krishna, V.V.R.Seshagiri Rao, T.Kishan Kumar Reddy and P.V.K. Murthy, "Performance evaluation of medium grade low heat rejection diesel engine with carbureted methanol and crude jatropha oil", Renewable and Sustainable Energy Reviews, ISSN: 1364-0321, ELSEVIER Publications, 34, 122-135, 2014.
13. V.V.R.Seshagiri Rao, T. Kishan Kumar Reddy, M.V.S.Murali Krishna, P.V.Krishna Murthy, "Comparative Studies on Exhaust Emissions from a High Grade Low Heat Rejection Diesel Engine with Carbureted Alcohol and Crude Jatropha Oil", International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, Volume 3, Issue-2, 22-30, May 2013.
14. M.V.S.Murali Krishna, P.V.Krishna Murthy and V.V.R.Seshagiri Rao, "Performance and combustion characteristics of a low heat rejection diesel engine with carbureted ethanol and jatropha oil", International Journal of Automobile Engineering Research and Development (IJAuERD), ISSN: 2277-4785, 2(3), 1-14, 2012.
15. V.V.R. Seshagiri Rao, M.V.S. Murali Krishna, T. Kishan Kumar Reddy and P.V.K. Murthy, "Comparative Performance evaluation of a high grade low heat rejection diesel engine with carbureted alcohol and crude jatropha oil", International Journal of Renewable Energy Research, ISSN: 1309-0127, 2(3), 516-527, 2012.
16. V.V.R. Seshagiri Rao, T. Kishan Kumar Reddy, M.V.S. Murali Krishna and P.V.K. Murthy, "Comparative studies on exhaust emissions from a low heat rejection diesel engine with carbureted methanol and jatropha oil", International Journal of Engineering Innovations and Research, ISSN; 2277-5668, 1(5), 431-439, 2012.
17. M.V.S.Murali Krishna, V.V.R. Seshagiri Rao, P.V.K. Murthy and T. K. K. Reddy, "Performance evaluation of a low heat rejection diesel engine with carbureted ethanol and jatropha oil", Journal of Computational and Applied Research in Mechanical Engineering (JCARME), ISSN; 2228-7922, 1(2), 99-110, March, 2012.
18. S. Narasimha Kumar, M.V.S.Murali Krishna, P.V.K.Murthy, V.V.R.Seshagiri Rao and D.N.Reddy, "Performance of copper coated two stroke spark ignition engine with gasohol with catalytic converter", International Journal on Mechanical & Automobile Engineering (IJMAE), ISSN: 0974 -231X, 12(1), 36-43, 2011.
19. V.V.R. Seshagiri Rao, T.K.K, Reddy, M.V.S. Murali Krishna and P.V.K. Murthy, "Performance evaluation of high grade low heat rejection diesel engine with carbureted methanol and crude jatropha oil", International Journal of Advanced Engineering Sciences & Technologies (IAEST), ISSN: 2230-7818,

10(2), 368–387, 2011.

20. S.Narasimha Kumar, M.V.S.Murali Krishna, P.V. Krishna Murthy, V.V.R.Seshagiri Rao and D.N.Reddy., "Emissions from copper coated two-stroke spark ignition engine with gasohol with catalytic converter", International Journal of Mechanical Engineering, ISSN: 0974–5823, (Tokyo), 3(2), July-December,163–167, 2010.
21. P.V.K. Murthy, S. Narasimha Kumar, M.V.S.Murali Krishna, V.V. Seshagiri Rao, D.N.Reddy, "Aldehyde emissions from two-stroke and four-stroke spark ignition engines with methanol blended gasoline with catalytic converter", International Journal of Engineering Research and Technology, ISSN: 0974–3154, 3(3),793–802, 2010.
22. M.V.S. Murali Krishna, Ch.V.Ramana Reddy and V.V.R.Seshagiri Rao, "Control of nitrogen oxides in high grade low heat rejection diesel engine by selective catalytic reduction technique", Asian Journal of Chemical and Environmental Research, ISSN: 0974–3049, 3(1), 29–32, 2010.

National Conferences:

1. V.V.R.Seshagiri Rao, M. V. S. Murali Krishna, T.Kishen Kumar Reddy, B.Sudheer Prem Kumar and K.Ravi Kumar, "Comparative Studies On Exhaust Emissions Of Carbureted Methanol And Crude Jatropa Oil Of High Grade Semi Adiabatic Diesel Engine And Conventional Engine" , Pages : 552-562, 2016, Proceedings of International Conference on Current Research topics in Power, Nuclear and Fuel Energy (PNFE) – 2016, organized by St. Peter's Engineering College, Hyderabad, during 25th to 27th October 2016.
2. V.V.R.Seshagiri Rao, N.Janardhan, R.P.Chowdary, T.Ratna Reddy, V.Anusha, K.Ravali, "Performance Parameters of Ceramic Coated Diesel Engine With Carbureted Alcohol and Cotton Seed Oil", Proceedings of National Conference On Advances In Mechanical Engineering & Renewable Energy (AMERE-2013),CBIT, during 25-26 March 2013.

International Conferences:

1. V.V.R.Seshagiri Rao, M. V. S. Murali Krishna, T.Kishen Kumar Reddy, D.Srikanth and P.V.Krishna Murthy, "Experimental investigations on DI diesel engine with low heat rejection combustion chamber with carbureted ethanol and crude jatropa oil", Pages : 1-14, 2015, Proceedings of ASME International Mechanical Engineering Congress and Exposition, MECE2015, Houston, Texas, USA.