



K.L.E.S.

K. L. E. Society's
K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI
(AICTE approved, Affiliated to VTU and ISO 9001:2015 Certified)
DEPARTMENT OF MECHANICAL ENGINEERING

(NBA Accredited Program)

Opposite Airport, Gokul, Hubballi-580027

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Faculty achievements 2021-22

1. Dr. V.R. Hiremath, Principal Investigator in the project “ Synthesis and Characterization of Epoxy- Alumina Nanocomposite: A Study on Effect of Particle Morphology and Post Curing Temperature on Mechanical Properties” sanctioned by VTU Research Grants scheme-2021 with funding of Rs. 11.88 lakhs (February -2022)

Faculty Publications in journals and Paper Presentations in Conferences

2021-2022

2. S.S. Halewadimath , N.R. Banapurmath , V.S Yaliwal and M.G Prasad “ Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine” Science Direct Elsevier International Journal of Hydrogen Energy <https://doi.org/10.1016/j.ijhydene2022.02.135>.
3. S.S. Halewadimath , N.R. Banapurmath, S.S. Jalihal, B.R. Akarsh , S.B. Rampur , V.V. Yaliwal , V.S. Savadatti. 3 December 2021 “Impact of injection timing (IT) on dual fuel engine fuelled with waste cooking oil methyl ester and producer gas” Elsevier . <https://doi.org/10.1016/j.matpr.2021.11.041>
4. Vivekanand Yaliwal, Prajwal Gaddigoudar, Sampatkumar Akki a , Vaibhavi Devadas a , S.S. Jalihal , M.G. Prasad, S.N. Timmanagoudar, S.S. Halewadimath, N.R. Banapurmath. 7 October 2021. “Influence of piston bowl geometry on the performance and emission characteristics of a diesel engine operated on single fuel mode using dairy scum oil biodiesel” Elsevier. <https://doi.org/10.1016/j.matpr.2021.09.108>
5. S.S. Halewadimath, N.R. Banapurmath, V.S. Yaliwal, M.G. Prasad, S.S. Jalihal, Manzoore Elahi M. Soudagar, Haseeb Yaqoob , M.A. Mujtaba, Kiran Shahapurkar , Mohammad Reza Safaei. 15 March 2022. “Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine”. International journal of Hydrogen Energy. DOI. <https://doi.org/10.1016/j.ijhydene.2022.02.135>.



Faculty Publications in journals and Paper Presentations in Conferences

2020-2021

1. Patil Shrinivas Kiran , Sharanabasappa C. Sajjan “Finalization of minimum Autofrettage pressure for steel made hydraulic cylinder used in industrial power pack applications”
Science Direct Elsevier Materials Today: Proceedings,
<https://doi.org/10.1016/j.matpr.2021.04.558>.
2. S. C. Sajjan ShajidAli Nadaf, Suhas Despande, Mahammed Malik Rehan N, and Sushma N.R “Mechanical ox-Replacement of tractors and farm animals for agriculture practices”
Science Direct Elsevier Materials Today: Proceedings, Volume:47P10,2021.
3. Veerabhadrayya Hiremath and Dharmendra Kumar Shukla (2020). “Rheological Properties and Curing Behaviour of Epoxy-Alumina Nanocomposites”. Materials Today: Proceedings, Elsevier Publishers, 22, P 2732-2740.
4. Shridhar H. B., S. B. Mallur and Sandeep C. D. (2020), “A Study on Certain Mechanical Properties of Aluminum 7075 Reinforced with Silicon and Boron Carbide”, International Journal of Advanced Science & Engg., Vol. 7, Issue 1, pp. 1594-1599.
<https://doi.org/10.29294/IJASE.7.1.2020.1594-1599>
5. **Pradeep S.G.**, Banapurmath N.R., Basavarajappa Y.H. 2020. “Effects of piston and cylinder swirl generation on the performance of ceiba pentandra and nigella sativa B20 biodiesel blended diesel engine operation”. IOP conf.series material science and engineering, doi:10.1088/1757-899X/1070/1/012132.
6. S. S. Halewadimath, V.S. Yaliwal, N.R.Banapurmath, A.M.Sajjan (2020) . “Influence of hydrogen enriched producer gas (HPG) on the combustion characteristics of a CRDI diesel engine operated on dual-fuel mode using renewable and sustainable fuels”. Fuel Volume 270, 15 June 2020, 11757DOI link: <https://doi.org/10.1016/J.FUEL.2020.117575>.



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Faculty Publications in journals and Paper Presentations in Conferences

2019-2020

1. S. C Sajjan and S. Surendran “ Experimental investigation of moonpool Shapes on a ship with forward speed” Sciendo DOI:10.1515/aon-2019-0015.
2. Sushurt S. Halewadimath, Banapurmath N. R., Yaliwal V. S., 2019. “Effect of engine variables on combustion characteristics of a dual fuel engine powered by Neem Oil Methyl Ester (NeOME) and producer gas (PG)”. International Journal of Ambient Energy. DOI: <https://doi.org/10.1080/01430750.2019.1696889>
3. Sushurt S. Halewadimath, Yaliwal V. S., Banapurmath N. R. 2019. “Fuel efficiency enhancement of modified diesel engine operated in dual fuel mode using renewable and sustainable fuels”. International Journal of Sustainable Engineering, DOI:10.1080/19397038.2019.1608331: 1-14.
4. Sandeep C. Dhaduti & S. G. Sarganachari & Arun Y. Patil & T. M. Yunus Khan,"Prediction of injection molding parameters for symmetric spur gear", Journal of Molecular Modeling (2020) 26: 302, 15 October 2020.
5. Reddy, A. S., Agarwal, P. K., and Chand S. (2019), “An adaptive multi-population genetic algorithm for the optimization of active magnetic bearings” IOP Conf. Series: Materials Science and Engineering, Vol. 691, Issue 12. doi:10.1088/1757-899X/691/1/012009.
6. Hanumesha Pujar, Prashant D. Banakar and S. C. Sajjan (2020), “Design and Fabrication of Multipurpose Agricultural Mini Farm Vehicle using Scooter Engine”, Journal of Automation and Automobile Engineering, Vol. 2, Issue 2, pp. 7-15.
7. Prashant D. Banakar, Prashantakumar N. K. and Hanumesha Pujar (2020), “Design and Fabrication of Inbuilt Hydraulic Jack for Four Wheelers”, Recent Trends in Automation and Automobile Engineering, HBRP Publications, Vol. 3, Issue 2, pp. 1-10.
8. Vinay V. N. and Manjunatha T. S. (2020), “A Review on Experimental Approach for Magneto Rheological Damper”, International Journal of Science, Engineering and Technology, Vol. 8, Issue 2, ISSN (Online): 2348-4098 ISSN (Print): 2395-4752.
9. Banapurmath N. R., Yaliwal V. S., Adaganti S. Y. and Sushrut S. Halewadimath (2019), “Power Generation from Renewable Energy Sources derived from Biodiesel and Low Energy Content Producer Gas for Rural Electrification”, Energy from Toxic Organic Waste for Heat and Power Generation, Book Chapter, Elsevier Publication, pp. 151-194.



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10. Hanumesha Pujar, Sharanabasappa C. Sajjan, Shreyans S. Chordia, Prajwal S. Kalyankar, Siddharth R. Paschapur and Vinayak M. Ganiger (2020), “Development of Non-Electric Washing Machine”, Journal of Mechanics and Machines, Vol. 2, , Issue 1, pp 1-7.
11. P.S Gaddigoudar, N.R. Banapurmath, Y.H. Basavarajappa, V.S.Yaliwal, P.A Harari and K.M. Nataraja “ Effect of injection timing on the performance of Ceiba Pentandra biodiesel dual fuel engine” Science Direct Elsevier Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2021.08.009>.

Faculty Publications in journals and Paper Presentations in Conferences

2018-2019

1. Reddy, A. S., Agarwal, P. K., and Chand S., “Application of artificial neural networks for the fault detection and diagnosis of active magnetic bearings” International Journal of Mechatronics and Automation, Vol. 6, 2/3 (2018).
2. Shrinivas N. T., Praveen Chitins, Manjunath Gudasalamani, Prashant Paradesi and Preeti Jatti (2019), “Design and Fabrication of Automated Scissor Jack”, International Journal of Engineering Research & Technology, Vol. 8, Issue 11, pp. 849-851, ISSN: 2278-0181.
3. Shrinivas N. T. (2019), “Design and Fabrication of Semi-Automated Solar Powered Sand Sieving Machine”, International Journal of Engineering Research & Technology, Vol. 8, Issue 11, pp.856-858.
4. Sandeep C. Dhaduti, Shridhar H. B. and S. N. Mathad (2019), “Preparation and analysis of Mechanical properties of short sisal and glass fiber reinforced composites”, International Journal of Advanced Science and Engineering, Vol. 05, Issue 03, pp. 1009- 1016.
5. Sushurt S. Halewadimath, Banapurmath N. R. and Yaliwal V. S. (2019), “Effect of engine variables on combustion characteristics of a dual fuel engine powered by Neem Oil Methyl Ester (NeOME) and producer gas (PG)”, International Journal of Ambient Energy, Vol.40, Issue 8, pp. 232–251.
6. Sushurt S. Halewadimath, Yaliwal V. S. and Banapurmath N. R. (2019), “Fuel efficiency enhancement of modified diesel engine operated in dual fuel mode using renewable and sustainable fuels”, International Journal of Sustainable Engineering, Vol. 12, Issue4, pp.248-261.



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