

**DEPARTMENT OF MECHANICAL ENGINEERING::VRSEC**

**FACULTY PUBLICATIONS**

**AY2017-18**

**International Journals**

1. M Balaji ,K Venkata rao,N.Mohan Rao,B.S.N.Murthy,“Optimization of drilling parameters for drilling of TI-6AL-4V based on surface roughness,flank wear and drill vibration” Measurement 114,September 2017,issn : 0263-2241, pp 332-339 , Scopus, Web of science, pubmed. Impact factor 2.359, **SCI**
2. Ch . Hari Krishna, MJ. Davidson, Ch. Naga Raju, G. Srinivasa Rao and P.Srinivasa Raju, “Modeling of anisotropic behavior to investigate the effect of hardness on AA2014 aluminum alloys under upsetting”, Proceedings of the institution of mechanical engineers PartC : Journal of mechanical Engineering Science, 24th November 2017. ISSN :0954-4062, **SCI, IF 1.015.**
3. P.Kishore Kumar, N.Vijaya Sai, A.Gopala Krishna, “ Influence of sintering conditions on microstructure and mechanical properties of Alloy 218 steels by powder metallurgy route”, Arabian journal for science and Engineering, 16th December, 2017, ISSN :2193-567X, Scopus, **SCI ,IF 0.865**
4. B. Supraja Reddy, B. Ram Gopal Reddy, “The Effect Of Tool Geometry And Process Parameters On Mechanical Properties And Microstructure Of Friction Stir Welded Dissimilar Joints Of AA7075 Aluminium Alloy And Pure Copper” International Journal of Mechanical Engineering and technology, volume 9, issue 6, June 2018, ISSN 0976-6359, PP 840-848. **SCOPUS.**
5. G.Jamuna Rani, Dr. Y.V. Hanumantha Rao, Dr.B. Balakrishna, “ Investigation of fuel injection pressure impact on CI Engine Performance And Emissions Using Biodiesel Blend With Alumina Nano Additives”, International Journal of Mechanical Engineering and Technology, volume 9, issue 6, June 2018, ISSN 0976-6359, PP 922-928. **SCOPUS.**
6. Srinivas Prasad Sanka, Amaraiah Mogili, “ Experimental Investigation on VCR Engine by Using dual Biodiesel”, International Journal of Mechanical Engineering and technology, volume 9, issue 6, June 2018, ISSN 0976-6359, PP 367-376. **SCOPUS.**

7. B.Sreenivasa Rao, G.Sambasiva Rao, J.Suresh Kumar, "Prediction of Failure mode of thin FRP laminate under Thermal Loading", Materials Today proceedings, Volume 5, 2018, ISSN 2214-7853, PP 12803-12813. **SCOPUS**.
8. K.Prakash Babu, V.Vijaya Babu, Nageswara Rao.M, "Implementation of heuristic algorithms to synchronized planning of machine and AGVs in FMS", Management science letters, Volume 8, 2018, ISSN 1923-9343, PP 543-554. **SCOPUS**.
9. V.Sridhar, Ch.Ratnam, "Enhancement of specific heat in nanomaterials by reinforcing nano alumina (Al<sub>2</sub>O<sub>3</sub>) particulates to Magnesium", International Journal of Mechanical Engineering and technology, Vol 9, issue 5, May 2018, ISSN 0976-6359, pp 633-639. **SCOPUS**.
10. Y.V.Hanumantha Rao, G.Jamuna Rani, B.Sri Krishna Kalyan, V.Avinash, Ch. Narendra and I.Ravi Kiran, "Experimental Investigations On Performance And Emission Characteristics Of A Direct Injection Diesel Engine Using Canola Oil Biodiesel With Exhaust Gas Recirculation (EGR)", International journal of Mechanical Engineering and Technology Volume 9, issue 4, April 2018, ISSN 0976-6359, pp 192-200. **SCOPUS**.
11. G.V.N.B Prabhakar, N.Ravi Kumar, B.Ratna Sunil, " Surface metal matrix composites of Al5083-fly ash produced by friction stir processing", Material Today Proceedings, 5, 2018, ISSN 2214-7853, pp 8391-8397. **SCOPUS**.
12. V.V.VenuMadhav, A.V.S.S.K.Gupta and V.Balakrishna Murthy, "Thermo Elastic Fracture Analysis of Angle-ply laminates", Material Today Proceedings, 5, 2018, ISSN 2214-7853, pp 6045-6052. **SCOPUS**.
13. Ramanjaneyulu V, Naga Raju, Ch.Chandra Mohan R., Balakrishna Murthy V., "Analysis of Composite Rocket Motor Case Using Finite Element Method", Material Today Proceedings, 5, 2018, ISSN 2214-7853, pp 4920-4929. **SCOPUS**
14. V. Sudheer Kumar, Dr.Ch.Nagaraju, Dr. K.Venkatrao, " Modelling and characterization of crack depth on rotor bearing using Artificial neural Networks", International journal of Mechanical Engineering and Technology Volume 9, issue 3, March 2018, ISSN 0976-6359, pp 813-827. **SCOPUS**
15. M.Satish kumar, M.V.Raju, M.Balaji, Bachina harish babu, "An experimental approach of environmental management plan for designing asbestos cement pipes –A model study," International Journal of mechanical engineering and technology, ISSN Print; 0976-6340 volume 8, issue 9, September 2017, pp.363-368, **SCOPUS**.

16. A.Mallikarjuna Rao, K.Ramji and K.Sundara Siva Rao, "Experimental Investigation of Mobile Robot Using Ant Colony Optimization", Smart Innovation, Systems and Technologies, December 2017, ISSN 2190-3018, PP 123-132, **SCOPUS**.
17. A.Venkateswarlu, A.Adi Lakshmi, Shaik Mohammad Azeez, "Design and analysis of ejector refrigeration system", Journal of Advance Research in Dynamical & Control Systems, vol 10, special issue 5, 2018, ISSN 1943-023X, PP 993-999.
18. N.Vijaya sai, P.S.Srinivas, T.Hari Krishna, "Modeling and Optimization of Overall Performance of Indian Public Sector Banks- A Case Study", Journal of Advanced Research in Dynamical and Control Systems, 11-special issue, July 2017,ISSN:1943-023X, PP 521-535.
19. M.Ramagopal, K.Ramanaiah, " Effect of Inbuilt Cooling System in Work Rolls", International Research Journal of Engineering and Technology, Vol 5, issue 6, June 2018, ISSN 2395-0056, PP 2838-2842.
20. P.S.Srinivas, T.Hari Krishna, N.Vijaya Sai, "Optimal Strategies in Allocation of Land in Krishna District Considering by Major Crops in Agriculture Planning", Journal of Advanced Research in Dynamical and Control Systems, 11-special issue, July 2017,ISSN:1943-023X, PP 63-71.
21. B. Shalem Raju, K.Ravi Kumar, "Performance Study on Variable Compression Ratio (VCR) Engine Using Different Blends of Neem Biodiesel as Alternative Fuel", International Research Journal of Engineering and Technology, Vol 5, issue 6, June 2018, ISSN 2395-0056, PP 2349-2353.
22. Ala Venkata Rao, Srivalli Gollamudi, " Numerical Analysis of Double Pipe Heat Exchanger with and without Strip", International Journal for Research in Applied Science & Engineering Technology, Volume 6, Issue IV, June 2018, ISSN 2321-9653, PP 855- 863.
23. Bapi Raju.V, Phanindra.Y.B.S., "Optimization of Internal Combustion Engine Piston", International Journal for Research in Applied Science & Engineering Technology, Vol 6, issue, VI, June 2018, ISSN 2321-9653, PP 169-170.
24. M.Balaji, CH. Nagaraju, VUS Vara Prasad, R. Kalyani, B. Avinash, "Evaluation of process Parameters in Machining of AA6063 Alloy", Advanced Materials Research, vol 1148, June 22, ISSN 1662-8985, PP 109-114.
25. Ch. Nagarjuna, M.Rajesh, "Experimental Investigation on mixing of biodiesel blends on VCR engine with Al<sub>2</sub>O<sub>3</sub> nano particles", International Research Journal of

- Engineering and Technology, Vol 5, issue 6, June 2018, ISSN 2395-0056, PP 2371-2375.
26. V.Sudheer Kumar, GS Pavan Kumar, K.Ravi Teja, K.Chaitanya Krishna, “ Design and Analysis of Grinding Roller in Bowl Mills”, Scholars Journal of Engineering and Technology (SJET), vol6, issue 6, June 2018, PP 187-197.
  27. K. Prakash Babu, M. Sai Chand, K. Supriya Devi, “Analysis and Fabrication of Electromagnetic braking system in light motor Vehicles”, International journal of science and innovative Engineering and technology, May 2018, volume 4.
  28. Shaik Mohammad azeez, Dr. Alapati Venkateswarlu, “ Design and analysis of ejector refrigeration system using R-134a refrigerant”, International research Journal of Engineering and Technology, volume 5, issue 6, June 2018, ISSN 2395-0056, PP 2160-2166.
  29. B.sreedhar Rao, G.srivalli, S.PremKumar, GB Sai Kumar, K.Samanvitha, G.Kamaneeya, “Studies on Nusselt Number for Corrugated Plate Heat Exchanger using oil”, International Journal on Recent Technologies in Mechanical and Electrical Engineering, Vol 4, issue 5, May 2018, ISSN 2349-7947, PP 72-75.
  30. T. Srinivasa Rao, Dr.B.Raghava Rao, Dr. V.Balakrishna Murthy, “Transverse Thermal Conductivity of Hollow Fiber Composites”, International Journal of Engineering Technology Science and Research, Vol 5, issue 5, May 2018, ISSN 2394-3386, PP 389-394.
  31. K.Srinivasa rao,G.Sreedhara Babu M.Rajesh, “Analysis and reduction of fuel consumption and emissions in Internal Combustion engines”, International Research Journal of Engineering and Technology, Vol 5, issue 5, May 2018, ISSN 2395-0056.
  32. K.srinivasa Rao, G.Sridhara Babu, M.Rajesh, “Alternative catalyst for catalytic converter of an automobile”, International journal of modern trends in engineering and research, Vol 5, issue 5, May 2018, ISSN 2349-9745, pp 95-103.
  33. B.Sreedhar Rao, S.Prem Kumar, B.Sharika, M.Raju, B.Prasanna, M.Shasank,G.Srivalli, “Heat Transfer Studies of Corrugated Plate Heat Exchanger Using Oil”, International Research Journal of Engineering and Technology, Volume 5, issue 3, March 2018, ISSN 2395-0056, PP 3489-3492.
  34. G.S. Pavan Kumar, “E-Aquaculture Monitoring Using Internet of Things”, International journal of Advanced Research, Ideas and innovations in Technology, ISSN: 2454-132X, Volume 4,Issue 1,2018, PP 413-418.

35. Ashok, A.Sreenivasulu, "Effect of Part Selection Decision on the Performance of Additive Manufacturing", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 15, Issue 2 Ver. II (Mar. - Apr. 2018), PP 10-14.
36. Mohan Krishna Kagita, Hari Krishna .T, Ashok Chakravarthy.M, " A Fuzzy environment strategy for Optimal agricultural land allocation in Krishna Delta", International Journal of Computer science, Vol 5, issue 2, February 2018, ISSN 2393-9842, PP 57-64.
37. K.Srinivasa Rao, M.Ashok Chakravarthy, G.Sreedhara Babu, M.Rajesh, " Modeling Simulation of Aerofoil Element", International Research Journal of engineering and Technology, volume 5, issue 2, February 2018, ISSN : 2395-0056, pp 2056-2059.
38. G.Udaya Aditya, L. Rushi Kesava Varma, M.Balji, Sk.Abzal, H.Brahma Teja, "An Efficacy of Soot Blowers in Boiler Performance", International Journal of Computer Science & Mechatronics, Volume 3, Issue 6, issn 2455-1990,2017, ICI indexed.
39. Bhanu Prakash P, Ravi Kumar.N, " Experimental Analysis of Madar and Vakka reinforced Hybrid polypropylene composite", International Journal of innovative research in science ,engineering and technology", Volume 6, issue 9, September 2017, issn 2319-8753, PP 17920-17926.
40. T.Naveen Babu, Phani Deepthi, "Alternative Catalyst For Catalytic converter of an automobile", International Journal of Scientific development and research(IJSDR), volume 2, issue 9, ISSN 2455-2631, PP132-137.
41. L.Narasinga Rao, G.Jamuna Rani, " Investigation of Performance and Emission Characteristics of DI Engine Using Madhuca Indica Biodiesel with Nano Additives", Research & Reviews: Journal of applied science and innovations, Vol 1, issue 2, july 2017, ISSN 2319- 9873, PP 1-6.
42. A.Venkateswarlu, A. Adilakshmi, "Design, Manufacturing and Analysis Of Bio-Medical Parts (3d Printed Bone And Tooth) Using Additive Manufacturing", International Journal of Latest Trends in Engineering and Technology, DOI: <http://dx.doi.org/10.21172/1.84.09>, Vol.(8), Issue(4), July 2017, e-ISSN:2278-621X, pp.065-072. Indian citation index.
43. Md. Imtiaz Sharieff, K. Ravi Kumar, " Experimental Investigation of Performance and emission Characteristics of Diesel Engine Using Jamun Seed Oil (syzygium Cumini ) Blends with diethyl ether as additive", International Journal of Innovative

Research in Science, Engineering and Technology, Vol 6, Issue 8, August 2017, ISSN 2319-8753,

44. V.Vikas, M.Rajesh, “ Experimental Investigation on Performance and emission Characteristics of Diesel Engine Using Coconut Blends with Acetone as Additive”,International Journal of Innovative Research in Science, Engineering and Technology, Vol 6, Issue 8, August 2017, ISSN 2319-8753, PP 17327-17333.
45. M.Tharun Kumar, M.Sumalatha, J. Naga Malleswara Rao, “ Experimental Investigation Of Impact strength for ABS plus F.D.M. Parts Using Taguchi”, International Research Journal of Engineering and Technology, Vol 4, issue 9, September 2017, ISSN 2395-0056, PP 456-461.
46. V Sudheer Kumar,Ch Nagarjuna and M Balaji, “An investigation of Dynamic characteristics of milling cutter for better health condition monitoring”European journal of advances in engineering and technology,2017,4[9];711-716,ISSN;2394-658X.

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#### FACULTY PUBLICATIONS

2017-18

#### International Conferences:

1. T.Srinivasa Rao, Dr.B. Raghava Rao, Dr.V.Balakrishna Murthy, “Transverse thermal conductivity of hallow fiber composites”, 2nd international conference on Innovative trends in engineering, applied science and management Osmania University centre for International Programmes, OU, Hyderabad, on 20th May 2018.
2. Shrikant Sharma, S.P. Kumar Gudapati, A.V. Ratna Prasad, “Effect Of Microcrystalline Cellulose (MCC) On The Flexural Properties Of Banana (BAST) Fiber Reinforced Polyester Composites”, 2nd International conference on Contemporary Engineering and Technology 2018 , organized by Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology (PSCMR) April 2nd -3rd 2018, Vijayawada , India, ISBN No. 978-81-923607-3-7,PP2.
3. S. P. Kumar Gudapati, K. Supraja, K. Sai Prakash., K. E. C. Bhargav. , J. E. Keerthana, Thermal Conductivity Characterization Of Areca Palm Fiber Reinforced

- Polymer Composites”, 2nd International conference on Contemporary Engineering and Technology 2018 , organized by Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology (PSCMR) April 2nd -3rd 2018, Vijayawada , India, ISBN No. 978-81-923607-3-7,PP5.
4. Dr. Alapati Venkateswarlu, Shaik mohammad azeez, “Design And Analysis Of Ejector Refregeration System”, 2nd International conference on Contemporary Engineering and Technology 2018 , organized by Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology (PSCMR) April 2nd -3rd 2018, Vijayawada , India, ISBN No. 978-81-923607-3-7,PP22.
  5. Srinivas Prasad.Sanaka, Mogili.Amaraiiah and G.Jamuna Rani, “Experimental Study On The Effect Of Compression Ratio And Injection Pressure On VCR Diesel Engine By Using Dual Biodiesel”, 2nd International conference on Contemporary Engineering and Technology 2018 , organized by Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology (PSCMR) April 2nd -3rd 2018, Vijayawada , India, ISBN No. 978-81-923607-3-7,PP15.
  6. K. Prakash Babu, M. Sai chand, K. Supriya devi, “Analysis And Fabrication Of Electromagnetic Braking System In Light Motor Vehicles”, 2nd International conference on Contemporary Engineering and Technology 2018 , organized by Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology (PSCMR) April 2nd -3rd 2018, Vijayawada , India, ISBN No. 978-81-923607-3-7,PP18.
  7. A.Mallikarjuna Rao, K.Ramji, T.Naveen Kumar, “Intelligent Navigation of mobile robot using grey wolf colony optimization”, 8th International conference on Materials Processing and Characterization (ICMPC-2018), Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Technology, Hyderabad during 16-18 March 2018.
  8. K.Siva Prasad, G.Chaitanya,” Selection of optimal process parameters by taguchi method for drilling GFRP Composites using Abrasive Water jet Machining Technique”, 8th International conference on Materials Processing and Characterization (ICMPC-2018), Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Technology, Hyderabad during 16-18 March 2018.
  9. M.Balaji, Ch. Naga raju, VUS Vara Prasad, R. Kalyani, B.Avinash, “Evaluation of process parameters in machining of AA6063 Alloy”,International conference on

advanced Materials and Manufacturing process organized by university college of Vijayanagaram, JNTU Vijayanagaram on 30th-31st March 2018.

10. K.Siva Prasad, G.Chaitanya, “ Selection of Optimal Process Parameters for Surface roughness and Circularity for Drilling GFRP Composites using Taguchi Technique”, International Conference on Innovative Techniques in Science, Engineering & Information Technology (ICITSEIT-18), held on 11th -13th March 2108 at Vivekananda Institute of Technology &Science, Karimnagar Telangana, PP 25.
11. M.Suma Latha, V.V.Kesava Rao, “Experimental Evaluation of the Best Orientation of Taper Plug to Minimize the support Material required in 3- D printing(FDM)”,1st International Conference on Innovations in Mechanical Engineering on 5th, 6th January 2018, Organized by department of Mechanical Engineering, Gurunanak Institutions, ISBN 978-93-85100-86-4, PP 147-151.
12. G.Sri Valli, K.Ravindra, B. Sreedhara rao, “A literature Review on Corugated Plate Heat Exchanger”, International Conference on Advances in Materials and Manufacturing Engineering (ICAMME-2018), organized by department of Mechanical Engineering, University College of Engineering& Technology Acharya Nagarjuna University, Guntur, AP , during 22nd-24th January 2018.
13. G.VNB Prabhakar, N.Ravi Kumar, B.Ratna Sunil, “Mechanical and corrosion behavior of AA5083-fly ash surface metal matrix composites”, International Conference on Composite Materials and Structures \_ICCMS 2017, Hyderabad 27-29th December 2017
14. M.Peeraiah, K.Nagamalleswara Rao, B.Balakrishna, “Experimental Investigation Of Heat Transfer Augmentation on Automobile Radiator operated with MWCNT Nanofluid by Axisymmetric Air Jet Impingement through Confined Channel”, 24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference(IHMTC 2017), December27th-30th , 2017 BITS Pilani, Hyderabad, India.
15. V.Bapi Raju, “ Multi Objective Optimization of Price Depenedent Perishable Product along with a Fuzzy Freshness parameter”, 4th International Conference on Industrial Engineering (ICIE 2017), organized by the department of Mechanical Engineering, SVNIT, Surat in association with Indian of Industrial Engineering (IIIE), NHQ-Mumbai, during December 21-23, 2017.ISBN:978-93-86238-39-9. PP 1065-1068.
16. M.Sumalatha, V.S. Kesava Rao, “ Experimental Evaluation of the Best Orientation of Taper Plug to Minimize the support Material Required in 3-D printing (FDM)” 2<sup>nd</sup>



International Conference on recent Innovations in Engineering and Technology, organized by Aurora's Scientific, Technological and Research Academy, Hyderabad, held on 21 & 22 December 2017, PP 2013-207.

17. Nilesh R Kolhalkar, V L Krishnan, "Use of Mechatronics and Robotics for Technology Enhanced Agricultural Tasks", International Conference on Agriculture and Human Development in India: Indigenous Practices, Scientific Views and Sustainability, organized by IGNOU, New Delhi & IIT, Guwahati, 08-09th September 2017.
18. Nagamalleswara Rao. K, Ram Gopal.M, Souvik Bhattacharya, " Development of Thermodynamic Data of Ammonia chloride salts and salt mixtures for sorption refrigeration systems, International sorption Heat Pump Conference 2017, on August 7th- 10th 2017.