

DEPARTMENT OF MECHANICAL ENGINEERING :: VRSEC
FACULTY PUBLICATIONS
Academic Year - 2015-2016

International Journals:

- 1 M.Suma Latha , V.V.S.Kesava Rao , J.N.Mallewara Rao, “ Evaluation of productivity of the components manufactured on C N C Lathe and Conventional Lathe”, International Journal of Recent Trends in engineering & Research, Volume 2, issue 06, June 2016, ISSN :2455-1457, pp 322-325.
- 2 V.Sridhar, M.Ashok Chakravarthy, VV Venu Madhav, “Evaluation of Optimal Parameters for Machining with wire cut EDM Using Grey-Taguchi Method”, International Journal of Research in Mechanical Engineering & Technology, Vol 6, issue 2, May-Oct 2016, pp 86-90, ISSN: 249-5770.
- 3 K.Uday Kiran, Dr.K.Naga Malleswara rao, “ Exergy analysis on braysson cycle with real gases”, International journal of engineering research-online, volume 4, issue 3, pp 75-80, May-June 2016, ISSN :2321- 7758.
- 4 J.N.Malleswara rao, M.Suma Latha, V.V.S. Kesava rao , V.Anurupa, G.Srivalli, “Variation of surface roughness with feed Rate on mild steel components produced by cnc lathe”, International research journal of engineering technology, volume 3, issue 05, May 2016, ISSN:2395-0072.
- 5 G. Jamuna Rani, Dr. Y.V.Hanumantha Rao², Dr. B. Balakrishna, “ Experimental Analysis on Emissions and Back pressure of a Diesel Engine Using Catalytic Convertor with Air-box”, International journal of engineering technology, volume 3, issue 05, May 2016, ISSN:2395-0072.
- 6 T.Harikrishna, N.Vijaya Sai, “ Modelling the performance Enablers of public sector banks using Cfa and Conjoint Analysis”, International Journal Of Engineering And Computer Science, vol 5, issue 5, May 2016, Pp. 16407-16413 ISSN: 2319-7242.
- 7 K.Siva Prasad, M. Likhitha Krishna, P.Priyanka, “ Machining Analysis on Mild Steel”, International Journal of Current Engineering And Scientific Research (IJCESR), ISSN:2393-8374, Volume-3, ISSUE-6,2016, pp 89-95
- 8 K.Siva Prasad, G.Chaitanya, “The research review on abrasive Machining”, International Journal on Recent Technologies in Mecanical and Electrical Engineering (IJRMEE), ISSN: 2349-7947, Vol 3, Issue 6, June 2016, pp 20-28.

- 9 B.Supraja Reddy, Dr. B. Ram Gopal Reddy, "Review On Different Trends In Friction Stir Welding", International Journal Of Innovations In Engineering And Technology (IJJET), ISSN: 2319-1058, Volume 7 Issue 1 June 2016, pp 170-178. **Scopus indexed**
- 10 C. Mahesh, K. Govinda Rajulu, V.Bala Krihna Murthy, "Analysis of fibre waviness effect through homogenization approach for the prediction of effective thermal conductivities of FRP Composite using finite element Method", Bulletin of Material Sciences, ISSN NO: 0250-4707, Vol 39, No.3, June 2016, pp 87-855. **SCI indexed, Scopus Indexed.**
- 11 K.Srinivasa Rao, "Modelling and Design Analysis of Rotor Disc Brake" , International Research journal of Engineering and Technology (IRJET), vol 3, issue 4, April 2016, pp 1254-1268, ISSN :2395-0072.
- 12 M.Bala Chennaiah, Dr. P.Nanda Kumar, Dr. K. Prahlada Rao, "Influence of Heat Input and PWHT on the Microstructure and Mechanical properties in Dissimilar (IS2062-EN8) welded joints", Procedia Computer Science , May 2016, issn :1877-0509, pp 5-61. **Scopus indexed.**
- 13 Ch.Hari Krihna, M.J.Davidson, Ch.Nagaraju, P.S.Raju, G.S.Rao, " Effect of Adhesion and Cohesion on Ductile Fracture in Cylindrical Upseting Process", Journal of Testing and Evaluation, ISSN : 1532-7574, Vol 44, No.2, March 2016, pp 983-994, doi:10.1520/JTE20150320.ISSN0090-3973. Scopus indexed.
- 14 M. Balaji, B S N Murthy, N Mohan Rao, "Multi response optimization of cutting parameters in drilling of AISI 304 stainless steels using response surface methodology", journal of engineering manufacture, sagepub.co.uk / journalspermissions.nav, DOI: 10.1177/0954405416636507, pib.sagepub.com, March 2016. ISSN : 0954-4054, **Scopus indexed, SCI indexed, IF :1.366**
- 15 K.Prakash Babu, M.Bala Chennaiah, N.Krishna Mohan, " Optimization of Parameters Influencing Weld Deposit Area in Gas Metal Arc Welding Process", I- Managers Journal on Mechanical Engineering, Vol 6, N0.2, Febraury-April 2016, pp 23-29, ISSN:2230-9055.
- 16 P.S. Srinivas, N. Vijaya Sai, T.Harikrishna, "Optimal land Allocation in Krishna District Without circular Economy in crisp Environment", International journal of scientific & Engineering Research (IJSER), vol. 7, Issue 2, February-2016, ISSN: 2229-5518, pp 1511-1516.
- 17 P. Siva Nagaraju, B.L.V.S. Gupta, "A study on effect of operating conditions on the performance of the bubble pump of absorption-diffusion refrigeration cycles",

International journal of engineering research online, Vol.4, Issue.1, ISSN: 2321-7758.
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- 18 T. Hari Krishna, Vijayasai. N , “Performance Evaluation of Banks Through Four Phased DEA-A Case Study”, International Journal of Industrial Engineering Research and development (IJIERD), volume 7, issue 1, January-April 2016, pp 24-34, ISSN No :0976-6979
- 19 Ch. Hari Krishna, M.J.Davidson, Ch. Nagaraju, A.V.Ratna Prasad, “ Effect of Lubrication and Anisotropy on Hardness in the Upsetig Test”, IIM Metallurgy Materials Engineering, December 2015, DOI 10.1007/s12666-015-073-7. **Scopus indexed.**
- 20 T.Hari Krishna, N.Vijaya Sai, M. Ashok Chakravarthy, V.Sudheer Kumar, “Identification of Measurement items of performance dimensions in container port terminals” , International Journal of Advanced Research in Computer Engineering &Technology, ISSN NO : 2278-1323,Volume 4, Issue 12,pp 4314-4319, December 2015
- 21 K.Srinivasa rao, K.Srinivas, B.Vinay, D.Aditya, K.V. Vamsi Krishna, K. Siva Rama Krishna, "Analysis of Engine Cylinder Liners", International Research Journal of Engineering and Technology (IRJET), ISSN NO:2395-0072, Vol 2, Issue 9, pp 631-640,Dec 2015
- 22 Kommana Srinivas, Balu Naik,and Kalyani Radha.K, "Eucalyptus- Palm Kernal oil Blends : A Complete Elimination of Diesel in a 4-stroke VCR Diesel engine, "Journal of Combustion, vol 2015, [Http://dx.doi.org/10.1155/2015/182879](http://dx.doi.org/10.1155/2015/182879), November 2015. **Scopus Indexed**
- 23 N.Vijaya sai, P.Nanda Kishore, D.Suresh, “Effect of flu ash and its particle size on properties of sintered Cu-5%Sn-fly ash particulate composites”, International Journal of Engineering Science and Technology(IJEST), ISSN:0975-5462, Vol 7, No.11, November 2015.
- 24 K. Prakash Babu, A. Chandini Priyanka, K. Sahithi, K.Kavyasri, “A study of gauge repeatability and Reproducibility Chacteristics on Critical parameters of a cylinder liner”, i-manager’s journal on instrumentation & control engineering, ISSN : 2321-113X,vol.3,No.4,October 2015, pp. 36-40
- 25 Dr. N.Ravi Kumar, P.Bhagya Lakshmi "Fabrication And Mechanical Testing Of Natural Fiber Reinforced Polypropylene Hybrid Composites", International Journal Of

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- 26 Shaik.Vasanta Siddaiah, V.Sridhar, V.V.Venu Madhav “Mechanical Properties of Al Metal Matrix Composites by Using Powder Metallurgy Technique”International Journal of Engineering Research,ISSN: 2321-7758 Vol.3., Issue.5,(Sept.-Oct.) 2015
- 27 A.sreenivasulu, N.Venkatachalapathi, G.Prashanthi, “Modeling and Analysis for minimization of mean flow time in FMS Simulation”, Journal Of Advanced Manufacturing systems,ISSN: 0219-6867,Vol 4, N0.4, pp 235-245, 2015, **Scopus Indexed**
- 28 K. Venkata Rao, K. P. Vidhu, T. Anup Kumar, N. Narayana Rao, P. B. G. S. N. Murthy, M. Balaji, " An artificial neural network approach to investigate surface roughness and vibration of workpiece in boring of AISI1040 steels", International Journal of advanced Manufacturing Technologies, DOI 10.1007/s00170-015-7621-1, volume 83, issue 5-8, PP 919-927, March 2016, **Thomson Reuters Impact factor 1.458, SJR H5 index:25, SCI indexed.**
- 29 T. Loknadh, Dr. P.S. Srinivas, “Design a crown wheel gear of Differential Gear Box used in Heavy Vehicles for Structural Loads”, International journal of science, Engineering and Technology Research (IJSETR), vol.4, Issue 7, July 2015, pp 2705-2713, ISSN: 2278-7798
- 30 Eswara Kumar A., Balakrishna Murthy V., Chandra Mohan R., " Effect of Shim percentage on Non-Linear Static Behavior of Flex seal of Rocket Nozzle", Science Direct, Materials today proceedings, pp 1427-1434, Vol 2, issue 4-5, July 2015, **(Scopus indexed Journal).**
- 31 Eswara Kumar A., Balakrishna Murthy V., Chandra Mohan R., Prakash D., " Study of Non-Linear Static Behaviour of Flex Seal of Rocket Nozzle by Varying Number of Shims", Science Direct, Materials today proceedings, pp 1613-1621, Vol 2, issue 4-5, July 2015, **(Scopus indexed)**.
- 32 N. Ravii Kumar, Ch. Ranga Rao, P. Srikant, B. Raghava Rao,” Mechanical properties of corn fiber reinforced polypropylene composites using Taguchi method”. Science Direct, Materials today proceedings, pp 3084-3092 Vol 2, issue 4-5, July 2015, **(Scopus indexed)**.
- 33 B. Srinivasa Rao, G. Samba siva rao, J. suresh kumar, “Buckling analysis of thin FRP Laminate under Thermal loading”, Science Direct, Materials today proceedings, pp 3084-Vol 2, issue 4-5,, July 2015, **(Scopus indexed)**.

National Journals:

- 1 N.Karteek, V.Bala Krishna Murthy, D.Prakash, "Harmonic analysis of mechanical hardware of a flight data recorder", National Journal of Technology, Vol 12, issue 2, June 2016 , pp 53-60, ISSN: 0973-1334

International Conferences :

- 1 M.Balaji, B.SN.Murthy, N.Mohan Rao, "Optimization of cutting parameters in Drilling of AISI 304 stainless Steel Using Taguchi and ANOVA (RAEREST ME 152)", International Conference on Global Colloquium on Recent advancements and Effectual Researches in Engineering, Science and Technology (RAERST 16) organized by St. Joseph's College of Engineering and Technology, palai during 22nd and 23rd April, 2016.
- 2 P.Sateesh Kumar Reddy, Ch.Naga Raju, "Weight optimization and Finite element analysis of Cocomposite automotive drive shaft for maximum stiffness", 5th International conference on materials processing & characterization, organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of engineering and technology on 12-13th March 2016.
- 3 K.Srinivas, Dr. B.Balu Naik, K.Kalyani Radha, " Emission and combustion characteristics of VCR CI Engine Fueled with Methyl Ester of palm kernel oil and Eucalyptus oil Blends", International conference on recent trends in engineering and material sciences(ICEMS-2016) organized by school of Engineering & Technology and School of Life & Basic Sciences, Jaipur National university, on 17th-19th March, 2016.pg no 137.
- 4 K. Srinivas, Dr.B.Balu Naik, Dr.K..Kalyani Radha, "Impact of Fuel Injection Pressure and Compression ratio on Performance and Emission Characteristics of VCR CI Engine fueled With Palm Kernel oil - Eucalyptus oil blends", 5th International conference on materials processing & characterization, organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of engineering and technology on 12-13th March 2016 pg no 112.
- 5 V. Sudheer Kumar, Ch. Naga Raju and M. Balaji "An Investigation of Dynamic Characteristics of Milling cutter for better Health condition monitoring", International conference on Technological Advancements in materials and manufacturing for industrial

- environment, (TAMMIE'2016, held at KPR Institute of engineering & Technology Coimbatore,) on 4th and 5th March 2016, ISBN 978-93-85477-74-4
- 6 T. Hari Krishna, N.Vijay Sai, V.Sudheer kumar, "Modeling the performance measures of public sector Banks", International conference on Technological Advancements in Materials and Manufacturing for Industrial environment (TAMMIE'2016 held at KPR Institute of engineering & Technology Coimbatore) on 4th and 5th March 2016. ISBN 978-93-85477-74-4
 - 7 N.Ravi kumar, P.Srikant, CH.Ranga Rao, K.Meera Saheb "Statistical analysis of mechanical properties of vakka fiber reinforced polypropylene composite using Taguchi method", 5th International conference on materials processing & characterization, organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of engineering and technology on 12-13th March 2016, pg no 167
 - 8 D.Prakash ,V. Balakrishna murthy ,R. Chandra Mohan ,N. Karteek , "Effect of Material Mismatch on Static behavior of Flex Seal," 5th International conference on materials processing & characterization, organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of engineering and technology on 12-13th March 2016, pg no 116.
 - 9 V.Sridhar, Prof Ch. Ratnam, M. Ashok Chakravarthy, " Synthesis and Mechanical Characterization of Magnesium Reinforced with Nano Alumina Composites", 5th International conference on materials processing & characterization, organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of engineering and technology on 12-13th March 2016, pg no 156.
 - 10 A. Sreenivasulu, N. Venkatachalapathi, G. Prasanthi, "Investigation of part launching rules in a flexible manufacturing system : A simulation analysis", international conference on emerging novelties and vistas in space technologies and applications (ENVISTA 2016), held at Chennai, India on 25-27 Feb -2016.
 - 11 M.Bala Chennaiah, B.Supraja Reddy, P.Nanada Kumar, K.Prahlada Rao, " Modelling and Effect of Heat input on tensile properties of low carbon steel GMAW process by using optimization Techniques" 2nd International conference on Advances in Cutting, welding & Surfacing (CWS 2015) organised by Coimbatore Institute of Technology, Coimbatore, Tamil Nadu from August 5th to 7th 2015
 - 12 A. Mallikharjuna Rao, BSK Sundara Siva Rao, K. Ramji, V. Vasu, N. Vijaya Kumar, "Experimental Investigation of navigation of autonomous mobile robot against obstacles using ANT colony optimization with safe boundary algorithm", 17th ISME

conference on Advances in mechanical engineering,organised by IIT Delhi, from 3rd to 4th october, 2015

- 13 V.Sudheer Kumar, D.Ch. Naga Raju, VUSV Prasad,T. Hari Krishna," Modal analysis of Cracked Rotor System Using Finite Element Method", 17th ISME conference on Advances in mechanical engineering,organised by IIT Delhi, from 3rd to 4th october, 2015
- 14 M.Bala Chennaiah, Dr. P.Nanda Kumar,Dr. K. Prahlada Rao, "Influence of Heat Input and PWHT on the Microstructure and Mechanical properties in Dissimilar (IS2062-EN8) welded joints", International Conference on computational Modeling and Security (CMS 2016) organized by L.Jalappa Institute of Technology , Bangalore, Karnataka on September 19, 2015

National Conferences:

- 1 K.srinivas, Dr.B.Balu Naik, Dr. K. Kalyani Radha,P.V.Avinash," Analysis of Performance and Emission Characteristics of Diesel engine Equipped with EGR, Fueled with Chicken waste Based Biodiesel blended with diesel", National conference on Trends in Mechanical Engineering(TIME'15), organised by JNTUA college of Engineering, anantapur, AP on 23rd september 2015