

DEPARTMENT OF MECHANICAL ENGINEERING::VRSEC

FACULTY PUBLICATIONS

2016-17

International Journals

1. K.Nagamalleswara rao, M.Ramgopal &F Souvik Bhattacharyya, “ Development of thermodynamic and reaction kinetic data on BaCl₂ – NH₃system with and without expanded natural graphite”, Science and technology for the Built Environment, 2017, DOI : 10.1080/23744731.2016.1275785, ISSN 2374-4731, PP 1-9, **SCIE, IF 1.284**
2. N.Ravi Kumar, P.Srikant, Ch. Ranga Rao, K.Meera Saheb, “Statistical analysis of mechanical properties of vakka fiber reinforced polypropylene composites using Taguchi method”, Materials Today Proceedings 4, 2017, ISSN 2214-7853,PP 3361-3370.**SCOPUS**
3. B.Sreenivasa Rao, G.Sambasiva Rao, J.Suresh kumar, “ Static vs Buckling Failure of thin FRP laminate under Thermal Loading”, Materials Today Proceedings 4, 2017,ISSN 2214-7853, PP3110-3115.**SCOPUS**
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”, Materials Today Proceedings 4, 2017, ISSN 2214-7853,PP 2222-2230.**SCOPUS**
5. Prakash D., Balakrishna Murthy.V, Chandra Mohan R, Karteek N, “Effect of Material Mismatch on Static behavior of Flex seal”, Materials Today Proceedings 4, 2017, ISSN 2214-7853,PP 2290 -2297.**SCOPUS**
6. P.Sateesh Kumar Reddy, Ch. Naga Raju, “ Weight optimization and Finite Element Analysis of Composite automotive drive shaft for Maximum Stiffness”, Materials Today Proceedings 4, 2017, ISSN 2214-7853,PP 2390-2396.**SCOPUS**
7. V. Sridhar, Ch. Rathnam, M.Ashok Chakravarthy, “Synthesis and Mechanical Characterization of MagnesiumReinforced With Nano Alumina Composites”, Materials Today Proceedings 4, 2017, ISSN 2214-7853,PP 3131-3140.**SCOPUS**
8. M.Bala Chennaiah, P.Nanda Kumar, P.Prahlada Rao, “Effect of PWHT on the Hardness and fractured microstructure of IS-103CrI welded joint”, Materials Today Proceedings, 4, 2017, ISSN 2214-7853,PP 1193-1198.**SCOPUS**

9. Ch. Hari Krishna, MJ Davidson and CH. Nagaraju , “ Effect of aging on hardness in the upsetting tests using experimental and finite element investigations”, journal of Mechanical Engineering Science, September 2016, issn 0954-4062, **SCOPUS**
10. A.Mallikarjuna Rao , K.Ramji, B.S.K. Sundaram Siva Rao, V.Vasu, C.Puneeth, “ Navigation of Non – holonomic Mobile Robot Using Neuro- fuzzy Logic with Integrated Safe Boundary Algorithm”, International Journal of Automation and Computing, doi: 10.1007/s11633-016-1042-y. volume 14(3), June 2017, ISSN: 1751-8520 PP 285-294,**SCOPUS**
11. M.Balaji, B.S.N.Murthy ,N.Mohan Rao, “ Optimization of Cutting Parameters in Drilling of AISI 304, Stainless Steel Using Taguchi and ANOVA”, Procedia Technology, vol 25, September 2016, pp 1106-1113.ISSN NO: 2212-0173 **SCOPUS**
12. Srinivas Prasad Sanka, A. Venkateswarlu, K. Vijay Kumar, “ Systematic Study of Head Loss in Pipes Conveying Oil in a Process Plant”, International Journal of Mechanical Engineering and Technology, Volume 8, Issue 6, June 2017, ISSN 0976 - 6359, PP 662- 666.**SCOPUS**
13. M.Venkateswarlu, D.Venkata Lakshmi, K. Naga Malleswara Rao, “ SORET, Hall Current, Rotation , Chemical Reaction and Thermal radiation effects on unsteady MHD Heat and Mass Transfer natural convection flow past an accelerated Vertical plate”, Journal of KSIAM, vol 20, No.3, 203-224, ISSN NO: 1226-9433 July 2016, pp 203-224, **SCOPUS**.
14. G.Sulochana, Ch. Venkata Prasad, P.Kumaran, “Performance, Emissions and Combustion Characteristics of a Diesel Engine Fuelled With Hybrid Biodiesel”, International Journal of Mechanical Engineering and Technology, Volume 8, Issue 6, June 2017, ISSN : 0976-6359, PP 501-509. **SCOPUS**
15. Rajesh Gunti, A.V.Ratna Prasad, A.V.S.S.K.S.Gupta, Preparation and Properties of Successive Alkali Treated Completely Biodegradable Short Jute Fiber Reinforced PLA Composites”, Polymer composites 2015, vol 37, issue 7, July 2016, pp 2160-2170., ISSN No :1548-0569.
16. A.Sreenivasulu, N. Venkata Chalapathi, G.Prasanthi, “ Simulation Modeling and Analysis for Investigation of Part Launching Rule in a FMS Scheduling”, Indian Journal of Science and Technology, Vol 9, (S1), ISSN 0974-5645, PP 1-5. December 2016.
17. A. Adilakshmi, A. Venkateswaarlu, “Assessment Of Ground Water Quality In Deshmukhi Village Nalgonda District, Telangana”, International Journal Of

- Advancement In Engineering Technology, Management and Applied Science (IIAETMAS), Volume 4, issue 6, June 2017, ISSN: 2349-3224, PP 69-83.
18. K.Siva Prasad, G.Chaitanya, “ A Review on Current Research Trends in abrasive Water Jet machining”, International Research Journal of Engineering and Technology, Volume 4, issue 6, June 2017, ISSN: 2395-0056, PP 3264-3270.
 19. K.Srinivasa Rao, G. Sai Meghana, Sk. Umar, K.MounikaChowdary, N.KrishnaReetika, “ Modelling of a Cracked Pipe into a beam and Prediction of Fatigue crack Propagation”, International Research Journal of Engineering and Technology (IRJET), ISSN : 2395-0072, Volume 3, Issue 12, December 2016, pp 1057-1063.
 20. K.Srinivasa Rao, G.Sreedhara Babu, M.Rajesh, “ Automatic Sun Tracking System With Dual Axis”, International Journal of Modern Trends in Engineering and Research, Volume 4, issue 6, June 2017, ISSN 2349 -9745, PP 106-113.
 21. Srinivas Prasad Sanka, P.K.Bharadwaj, BLVS Gupta, “ Experimental Investigation and Fabrication of Serpentine Flat-Plate Collector to Predict the Performance”, International Journal of Engineering and Innovative Technology, Volume 6, Issue 1, June 2017, ISSN : 2277- 3754, PP 1-5.
 22. Bapi Raju V., Balakrishna Murthy V, Prasanna K.G.L., “Limitation of Classical, Bending Theory in Isotropic and FRP Beams”, International Journal for Research in Applied Science & Engineering Technology, Volume 5, Issue 6, June 2017, ISSN 2321-9653, PP 1204-1210.
 23. A.V.A. R Durga Rao, N.Vijaya Sai, K. Prakash Babu, “An Integrated approach using VIKOR and ENTROPY methods for a Supplier selection problem”, International Journal of Innovations in Engineering and Technology, Volume 8, issue 3, June 2017, ISSN: 2319 – 1058, PP 1-9.
 24. K. Prakash Babu, M. Bala Chennaiah, A.Jagadeesh, “ Determining Optimal Parameters for Surface Roughness of Cylinder Liners During Honing Process by Taguchi Methodology – A Case Study”, International Journal of Innovations in Engineering and Technology, Volume 8, issue 3, June 2017, ISSN: 2319 – 1058, PP 78-87.
 25. K.Srinivasa Rao, M.Rajesh, G.Sreedhara Babu, “ Design and Analysis of Alloy Wheels”, International Research journal of Engineering and Technology ,volume 4, issue 6, june 2017, ISSN 2395-0056, PP 2036-2042.

26. K.Siva Prasad, K.S.V.K. Sainath, B.Vijay Kumar “ Investigation of Material Removal Rate on Mild Steel- using Taguchi Technique”, International Journal of Engineering Technology Science and Research, Volume 4, issue 5, May 2017, issn: 2394-3386, PP 316-323.
27. G.Jamuna Rani, Hanumantha Rao. Y.V. , Balakrishna. B, “Investigation of Performance and Emission Characteristics of VCR engine Fuelled with Mahua Bio diesel Blends Using Nanoparticles”, Research Journal of Pharmaceutical, Biological and Chemical Sciences, volume 8, issue 3, May-June 2017, ISSN : 0975-8585, PP 51-59.
28. V.Uma Sai Vara Prasad, Ch.Karthik Sai, M.Balaji, “ Geometric parameters optimization & Analysis of packing robot arm using ANSYS”, International Journal of Advanced Rsearch in Basic Engineering Sciences and Technology, Volume 3, Special Issue 30, March 2017, ISSN : 2456-5717, PP 1-6.
29. A.Sreenivasulu, N. Venkata Chalapathi, G.Prasanthi, “ Simulation Modelling and analysis for improvement of performance measures in a FMS” IOSR Journal of Mechanical and Civil engineering, Volume 14, issue 2, ver3, (Mar-Apr) 2017, ISSN: 2320-334X, PP 45-51
30. M.Balaji, B.S.N.Murthy, N.Mohan Rao, “Optimization of cutting parameters in drilling of Ti-6Al-4V Alloy Using Taguchi and ANOVA”, Journal of Advances in Mechanical Engineering and science, Vol2(4), ISSN NO:2455-0957, August 2016, pp1-10.
31. N.Sucharitha, V.Dhana Raju, K.Srinivas, “ Effect of Sunflower Biodiesel Blended Fuels with Ignition improver on Engine Performance and emission Characteristics of a Diesel”, International Journal of Engineering Science and Computing, vol 6, issue 8 August 2016, pp 2596-2601.
32. T.Hari Krishna, VijayaSai.N, P.S.Srinivas, M.AshokChakravarthy, “ Performance Evaluation of Container Terminals in Fuzzy Environment: A Case Study”, International Journal of Management &Business Studies, Vol 6, issue 3, July-sep 2016.pp26-31.Issn Number: 2231 – 2463 .
33. T.Haririshna, N.Vijaya Sai, “Evaluation of performance o Indian banks by using CAMEL and GRA Tcniques”, Iranian Journal of optimization, Volume 8,issue 1, winter 06, pp 925-936.ISSN NO: 2008-5427

34. T.Haririshna, N.Vijaya Sai, “A DEA-Topsis approach to analyse the financial efficiency of Indian public sector bank”, Iranian Journal of optimization, Volume 8,issue 1, winter 06, pp 937-949. ISSN NO: 2008-5427
35. P.Satheesh Kumar Reddy, Ch. Nagaraju, M.Ashok Chakravarthy, “ Structural Size Optimization of Ten Bar Truss Using Finite Element Analysis For Minimum Weight and Maximum Stiffness”, International Journal of Research in Mechanical Engineering & Technology, Vol 6, issue 2, May- Oct 2016.PP 94-98.ISSN : 2249-5762.

International Conferences:

1. G.Dilli Babu, S.P. Kumar Gudapati, A.V. Ratna Prasad and Sivaji Babu, “ Mechanical and Thermal Properties of Esculentus Cyperus Fiber Reinforced Polypropylene composites”, International Conference on Advancements in Aeromechanical Materials for Manufacturing, during July 7th -9th 2016, Organized by MLR institute of Technology, Hyderabad, PP 35-41.
2. G.Jamuna Rani, Y.V.Hanuantha Rao, B.Bala Krishna, V.V.PrathibhaBharathi, “Performance and Emission Characteristics of a VCR Engine Fuelled with Rice Bran oil-diesel Blends”, International Conference of Future Technologies in Mechanical Engineering,(ICFTME),during 17th-20th November 2016,organized by the department of Mechanical Engineering, Malla Reddy College of Engineering, Hyderabad, A.P., ISBN 978-93-85101-24-3.PP 222-227.
3. V.V.VenuMadhav,A.V.S.S.K.S.Gupta, V.Balakrishna Murthy, “Modelling of Angle-ply laminates for Thermo-elastic Fracture Behaviour”, International Conference on Advances in Materials and Manufacturing (ICAMM-2016), during 8th-10th December, 2016, jointly organized by Department of Mechanical Engineering , University college of Engineering, Osmania University, Hyderabad and Defense Research & Development Laboratory (DRDL), DRDO, Ministry of Defense, Govt.of India, Hyderabad, A.P, e-ISBN :978-93-86256-19-5. pp 25-28.
4. DilliBabu, S.P.KumarGudapati, K.SivajiBabu, A.V.RatnaParasad, “Mechanical and Thermal Properties of AbelmoschusEsculentus Fiber Reinforced Polypropylene Composites”, International Conference on Advances in Materials and Manufacturing (ICAMM-2016), during 8th-10th December, 2016, jointly organized by Department of

Mechanical Engineering , University college of Engineering, Osmania University, Hyderabad and Defense Research & Development Laboratory (DRDL), DRDO, Ministry of Defense, Govt.of India, Hyderabad, A.P., e-ISBN :978-93-86256-19-5, pp 364-368.

5. V.V.VenuMadhav, K.Sairam, Ch.Ganesh, VenkatakiranKumar.R, “ Analysis of embedded Elliptical interface delamination in flat plate composite laminates”, 5th International conference on Recent Advances in Composite Materials, from 6th to 8thFebraury, 2017, organized by KLUniversity, Guntur,Ap.
6. VenkatakiranKumar.R, K.Sasidhar, A.S.L.Dinesh, M.Pavan Kumar, “ Thermo-Elastic Analysis of Embedded Elliptical Delamination in Composite Cylindrical Laminates”, 5th International conference on Recent Advances in Composite Materials, from 6th to 8thFebraury, 2017, organized by KLUniversity, Guntur,Ap.
7. G.Jamuna Rani, Y.V.Hanuantha Rao, B.Bala Krishna, “ Performance and Emission Characteristics of VCR Engine Fueled with Mahua Biodiesel Blends Using Nano Particles,” 2nd International Conference on Recent Advances in Chemical Environment and Energy Engineering (RACEE 2017) during 23rd- 24th February 2017, held at SSN Engineering college, Chennai, Tamilnadu. PP 27
8. V.Bapi Raju, “Optimization of price, Cycle time & production rate in a two level supply chain management in a competitive & Cooperative environment”, International conference on Mechanical engineering: Enabling sustaiment (ISME-2017) during February 23rd-25th, 2017 at NIT Warangal, India.
9. M.BalaChennaiah, Dr. P.Nanda Kumar, Dr.K. Prahlada Rao “Effect of grain size on Hardness of IS2062 MIG weldment before and after heat treatment process”, International conference on Mechanical engineering: Enabling sustainable development (ISME-2017) during February 23rd-25th, 2017 at NIT Warangal, India.
10. A.Mallikarjuna Rao, K.Ramji, B.S.K. Sundara Siva Rao, “Experimental Investigation on Navigation of Mobile Robot Using Ant colony Optimization”, 1st International Conference on smart Computing & Informatics (SCI -2017), organized by ANITS, Vizag, during 3rd-4th March 2017, PP 89.
11. B.SreenivasaRao, Dr.G.Samba Siva Rao, Dr.J.SureshKumar,“Prediction of Failure mode of Thin FRP Laminate under thermal loading”, International Conference on Materials, Manufacturing and modelling (ICMMM-2017) held during March 9th-11th, 2017, at VIT-University, Vellore.

12. G .V.N.B. Prabhakar, N.Ravi Kumar, B.Ratna Sunil, “Metal Matrix Composites of Al5083-Fly ash Produced by Friction Stir Processing”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, Organized by NIT ,Tiruchirappali, during March 10-12, 2017
13. Ramanjaneyulu V, Naga Raju, Ch.,Chandra Mohan R., Balakrishna Murthy V., “Analysis of Composite Rocket Motor Case Using Finite Element Method”, 7th International Conference on Materials Processing and Characterization (ICMPC-2017), Organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Technology, Hyderabad during 17-19 March 2017, pp. 118.
14. V.V.VenuMadhav, A.V.S.S.K.S. Gupta and V.Bala Krishna Murthy, “Thermo-Elastic Fracture analysis of Angle-ply Laminates”, 7th International conference on Materials processing and Characterization(ICMPC-2017), during 17th-19th March 2017, GRIET,Hyderabad, Telangana,in collaboration with MANIT,Bhopal,M.P, pp 136.
15. G.Jamuna Rani, Y.V.Hanuantha Rao, B.Bala Krishna ,“Effect of Alumina and Zinc oxide nano additives on the performance and emissions characteristics of CI engine”, International Conference on Nanotechnology Applications: Chemical, Energy and Environment(NACEE-2017) during 22nd-23rd March,2017, organized by Chemical Engineering Department, SVNIT, Surat,ISBN : 978-93-5268-680-3 PP 66
16. V.V.VenuMadhav, A.V.S.S.K.S.Gupta, V.Balakrishna Murthy, “Thermomechanical Fracture Studies-A Review” , International conference on Contemporary Engineering and Technology (ICCET-2017) during 31st March-1st April,2017, Organized by PottiSriramuluChalavadiMallikarjuna Rao College Of Engineering and Technology(PSCMR),Vijayawada, A.P.,ISBN:978-81-904760-9-6.
17. Dr. P.S.Srinivas, B.T.Hari Krishna, Dr. N.Vijaya Sai, “ Optimal Strategies in Allocation of Land in Krishna District Considering Major Crops in Agriculture Planning”, International conference on Contemporary Engineering and Technology (ICCET-2017) during 31st March-1st April,2017, Organized by Potti Sriramulu Chalavadi Mallikarjuna Rao College Of Engineering and Technology(PSCMR),Vijayawada, A.P.,ISBN:978-81-904760-9-6.
18. Dr. N.Vijaya Sai, B.T.Hari Krishna, Dr.P.S.Srinivas, “ Modelling and Optimization of Overall Performance of Indian Public sector Banks- A Case Study”, International conference on Contemporary Engineering and Technology (ICCET-2017) during 31st March-1st April,2017, Organized by Potti Sriramulu Chalavadi Mallikarjuna Rao

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19. B.L.V.S.Gupta, Srinivas Prasad sankar, K.Mallikarjuna Rao, “ One dimensional thermodynamic analysis of a Steam Power Plant”, International conference on Contemporary Engineering and Technology (ICCET-2017) during 31st March-1st April,2017, Organized by Potti Sriramulu Chalavadi Mallikarjuna Rao College Of Engineering and Technology(PSCMR),Vijayawada, A.P.,ISBN:978-81-904760-9-6.
20. K.siva Prasad, K.S.V.K. Sainath, B.Vijay Kumar “ Investigation of Material Removal Rate on Mild Steel- using Taguchi Technique”, International Conference on new Frontiers of Engineering, Science, Management and Humanities, at National Institute of Technical Teachers Training & Research, Chandigarh, India, India on 21st May 2017.