

**DEPARTMENT OF MECHANICAL ENGINEERING
PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, VIJAYAWADA**

FACULTY PUBLICATIONS

2019-20

International Journals:

1. K. Sivaji Babu, G. Dilli Babu, S. P Kumar Gudapati, A. V Ratna Prasad
Experimental Investigation on mechanical and thermal properties of Esculentus Cyperus fiber reinforced polypropylene composites
Materials Today Proceeding, Elsevier Publications
ISSN: 2214-7853, Volume-23, 557-560, July 2020-08-05
Scopus Indexed
2. K I V Vandana, K. N. S Suman
Effect of Speed on Tribological Properties of Graphene Toughned Alumina (Al-G) Composite
International Journal of Innovative Technology and Exploring Engineering (IJITEE)
ISSN: 2278-3075, Volume-8 Issue-9, 2068-2074, July 2019
Scopus Indexed
3. M. Rajya Lakshmi, P. Suresh Babu
Optimization of Process Parameters for Pocket Milling Of Al 7075 Using Response Surface Methodology
International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
ISSN (P): 2249-6890; ISSN (E): 2249-8001, Vol. 9, Issue 4, 649-658, Aug 2019
Scopus Indexed
4. K. Sivaji Babu, N Raghu Ram, K SriramVikas, P. Srikant
Development and testing the Antimicrobial activity of Copper reinforced Low-Density Polyethylene Bottles
Compliance Engineering Journal
ISSN NO: 0898-3577, Volume-10, Issue-8, 153-163, August 2019
UGC Approved
5. B. Raghu Kumar, P. Phani Prasanthi, Ch. Vidya
Fatigue Characterization Of Sisal Fiber Reinforced Composites Using Experimental And Finite Element Method
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, 1728-1732, August 2019
Scopus Indexed
6. P. Phani Prasanthi, M. Mounika, A. Eswar, K. Venkata Rao
Fracture Behavior of Nano Particle Reinforced Sisal Fiber Composites Using Analytical And Experimental Methods
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-10, August 2019
Scopus Indexed
7. T J Prasanna Kumar K Venkatarao, P. MastanRao
Computational Investigation On Static And Dynamic Analysis Of Composite Laminate Using Finite Element Technique
International Journal of Recent Scientific Research
ISSN: 0976-3031, Volume-10, Issue-9, pp. 34978-34985, September 2019.
UGC Approved
8. K. Srividya, E. Kavitha, P. Anusha, M Naga Swapna Sri
Fabrication of silicon carbide and graphite reinforced aluminium MMC by stir casting and characterization by wear test

International Journal of Innovative Technology and Exploring Engineering
ISSN: 2278-3075, Volume-8 Issue-11, 4033-4038, September 2019
Scopus Indexed

9. M.S.R. Niranjan Kumar, P. GopalaKrishnaiah, P. Sai Kumar
Optimization of Process Parameters of Wire Cut Electrical Discharge Machining on Titanium Grade-5 Material using Design of Experiments
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-11, 3937- 3946, September 2019
Scopus Indexed
10. M. Rajya Lakshmi, P. Suresh Babu
Influence of Cutting Parameters and Tool Path Strategies on Surface Roughness in Pocket Milling of UNS A96082 Alloy
International Journal of Engineering and Advanced Technology (IJEAT)
ISSN: 2249 – 8958, Volume-9 Issue-1, 6241-6245, October 2019
Scopus Indexed
11. K. Ravi Prakash Babu and B. Raghu Kumar
Modal Based Sensitivity Analysis of Crack in Turbine Blades Using Validated Finite Element Models
International Review on Modelling and Simulations
Volume-12 Issue-5, October, 2019, 292 – 302
Scopus Indexed
12. Ch.Kishore Reddy, M.Gopi Krishna, T.Ashok, K.Sriram Vikas
Influence and effect on properties with particulate additions in Al-Mg-X alloys – A Review
Materials Today: Proceedings
ISSN: 2214-7853, Volume 18, Part 1, October-2019, Pages 357-360
Scopus Indexed
13. K Ravi Prakash Babu, B. Raghu Kumar, G. Durga Prasad, V. Mohan Manoj
Estimation of Reduced Stiffness under the Influence of Crack in a Beam
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1, 711-714, November 2019
Scopus Indexed
14. G. Vijay Kumar, M V Ramesh
Design and Fabrication of Solar Powered Autonomous Seed Sowing Vehicle
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1, 4026-4031, November, 2019
Scopus Indexed
15. B. Raghu Kumar, Abhijeet H. Kekan
Natural Frequency Response Of Rotor Shaft To Crack Depth And Crack Location
International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
ISSN (P): 2249–6890; ISSN (E): 2249–8001, Vol. 9, Issue 6, 499–510, December, 2019
Scopus Indexed
16. K. Sivaji Babu, M. S. R. Niranjan Kumar P. Phani Prasanthi, A. Eswar Kumar
Analysis of Sisal Fiber Waviness Effect on the Elastic Properties of Natural Composites Using Analytical and Experimental Methods
Journal of Natural Fibers
Print ISSN: 1544-0478, Volume-14, Issue-, December 2019
Scopus Indexed, SCI Indexed
17. P. Phani Prasanthi, V.Satya Prasad Nulu, M.N.V. Alekhya, K. Manoj Kumar, G E V Ratna Kumar
Preparation and Characterization of Tungsten Carbide WC/Cobalt Composites by Powder Metallurgy Method
International Journal of Engineering and Advanced Technology (IJEAT)
ISSN: 2249 – 8958, Volume-9 Issue-2, December, 2019

Scopus Indexed

18. K I Vishnu Vandana , K N S Suman
Hardness and Fracture Toughness of Ceramic Composite using Experimental and Analytical Method
International Journal of Engineering and Advanced Technology (IJEAT)
ISSN: 2249 – 8958, Volume-9 Issue-2, January, 2020
Scopus Indexed
19. P. Srinivas Manikanta, M. Somaiah Chowdary and M. S. R. Niranjan Kumar
Evaluation of Mechanical Properties of Banana and S-glass Fiber-Reinforced Hybrid Nanosilica Composite
Advances in Applied Mechanical Engineering, Lecture Notes in Mechanical Engineering
Springer Nature Singapore Pte Ltd. 2020
Print ISBN: 978-981-15-1200-1
Scopus Indexed
20. M. Radha Devi, K. Srividya, M. Naga swapna sri, J. Surendra, P. Anuroop
Automobile Radiator's Engineering and Analysis
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, March 2020
Scopus Indexed
21. K. Venkatarao, K. Sivaji Babu, G. Ranga Janardhana
Effect of Alkali Treatment on mechanical Behaviour of Hemp/Jute Fibre reinforced Polyester hybrid composites
TEST Engineering and Management
ISSN: 0193-4120, Vol-83, 14344-14353, April 2020
Scopus Indexed
22. Ch. Kishore Reddy, M. Gopi Krishna, VSN Venkata Ramana
Corrosion Characterization of Al-4mg Based Metal-Metal Composite with High Strength Alloy Particulate as Reinforcement
International Journal of Recent Technology and Engineering (IJRTE)
ISSN: 2277-3878, Vol-8, Issue-5, 1638-1641, January-2020
Scopus Indexed
23. P. Gopala Krishnaiah, Ch. Kishore Reddy, K Sriram Vikas, M Gopi Krishna
A comprehensive Evaluation of Wear behaviour of aluminium matrix composites with various metallic and non metallic particulates as reinforcement
International Journal of Mechanical and Production Engineering Research & Development (IJMPERD)
ISSN(P): 2249-6890, Vol-10, Issue-2, 505-514, April 2020
Scopus Indexed
24. M. Rajya Lakshmi, N. Someswara Rao, R Nagarjuna, M. Balaji
Design And Manufacture Of Thermoplastic Hub Nut
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020), PVPSIT
International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg 1751-1760 June 2020
Scopus Indexed
25. G. Vijay Kumar, M. V Ramesh
Design and Fabrication of Automatic seed sowing robotic vehicle
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020), PVPSIT
International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg: 1741-1750, June 2020
Scopus Indexed

26. K I V Vandana, N Venkateswara Rao, N Venkatesh
Solar Powered Ultraviolet (UV) Water Purification
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT
International Journal of Mechanical and Production Engineering Research and Development
(IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg: 1903-1912, June 2020
Scopus Indexed
27. P Anusha, M. Naga Swapna Sri
Experimental Investigation On Effect Of Nano Lubrication In A VCR System Using R410a
Refrigerant With Al₂O₃ Nano Particles
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT
International Journal of Mechanical and Production Engineering Research and Development
(IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg: 1761-1768, June 2020
Scopus Indexed
28. T. Srinag, V Naga Prasad Naidu, K Hema Chandra Reddy
Bamboo and pineapple leaf fiber reinforced neem shell, liquid composite
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT
International Journal of Mechanical and Production Engineering Research and Development
(IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg: 1893-1902, June 2020
Scopus Indexed
29. T. Srinag, Ch Srinivas, P. Uma Maheswara Rao, M. Chandra sekhar
Experimental Investigations on Material Removal Rate In Turning Of EN 8 Steel National
Conference on Recent Advances in Mechanical Engineering (NCRAME-2020), PVPSIT
International Journal of Mechanical and Production Engineering Research and Development
(IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg: 1769-1776, June 2020
Scopus Indexed
30. Ch. Vidya, G. Ravi Kiran Sastry, P Phani Prasanthi, S Snigdha
Novel CFD Analysis Of Heat Transfer Characteristics Of Nano Coolants For Car Radiators
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT
International Journal of Mechanical and Production Engineering Research and Development
(IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg: 1869-1876, June 2020
Scopus Indexed
31. Dr. K. Srividya , Ch. Mohan Sumanth , J. Surendra & V. Sankararao
Fabrication Of Al Alloy Composite Reinforced With Silicon Carbide And Graphite Through
Stir Casting Process And Wear Analysis
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT
International Journal of Mechanical and Production Engineering Research and Development
(IJMPERD)
ISSN (E): 2249–8001, Volume 10, Issue-3, Pg:1445-1454, June 2020
Scopus Indexed
32. E Kavitha, Ismail Karavada, MRS Satyanarayana
Modelling and Fabrication of Micro controller based speed control system in hydro turbine
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT

International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

ISSN (E): 2249–8001, Volume 10, Issue-3, Pg:1455-1462, June 2020

Scopus Indexed

33. B. Raghu Kumar, K. Ravi Prakash Babu, Md. Abid Ali, G. Durga Prasad
Mechanical Behaviour Of Zn And Cu Reinforcement In Al-Sic Composite
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT

International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

ISSN (E): 2249–8001, Volume 10, Issue-3, Pg 2551-2558 June 2020

Scopus Indexed

34. M. Naga Swapna Sri, Anusha Peyyala, N. V. V. S. Sudheer, K. Srividya
Performance Analysis of VCR System Using Tio 2 Nano Particles in Lubricant
National Conference on Recent Advances in Mechanical Engineering (NCRAME-2020),
PVPSIT

International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)

ISSN (E): 2249–8001, Volume 10, Issue-3, Pg 2565-2574, June 2020

Scopus Indexed

Conferences:

1. Ch Kishore Reddy, P. Srikant, N Raghu Ram
Metallic particulates for preparation of anti-bacterial preservation vassals and their applications – A Review
Materials Today: Proceedings
ISSN: 2214-7853, Volume-18, 440-444, August 2019
Scopus Indexed
2. Ravi Prakash Babu Kocharla, Raghu Kumar Bandlamudi
Condition Monitoring of Turbine Blades with Experimental Validation Using FFT Analyzer Advances in Materials and Manufacturing Engineering (Proceedings of ICAMME 2019), Lecture Notes in Mechanical Engineering
ISBN: 978-981-15-1306-0, January 2020, 211-222
Scopus Indexed
3. P. Phani Prasanthi, Sai Mouli Makineni, P. V. Satyanarayana Yalamachili, K. Sivaji Babu, M. Mounika
Performance of Laminated Composite Turbomachinery Blades Using Finite Element Method with Delamination
Advances in Materials and Manufacturing Engineering
ISBN: 978-981-15-1306-0pp 17-28, Conference Proceedings, Springer, Singapore, January 2020
Scopus Indexed
4. Ch.Mohan Sumanth, G.Ashok Kumar, J.Sai Revanth, K.Srividya, M.Somaiah Chowdary, T.Venkateswara Rao,
Thermo Gravimetric analysis of Vetiveriazizanioides /Jute/Glass fiber reinforced hybrid polymeric composites
International Conference of Materials Processing and Characterization, ICMPC-2019
ISSN: 2214-7853, Materials Today: Proceedings 18 (2019) 5317–5326
Scopus Indexed
5. B. Raghukumar, S. Nagakalyan
Preparation and characterization of carbon/epoxy towpreg composite material
International Conference on Recent Advances in Materials, Manufacturing & Energy Systems Materials today proceedings
ISSN: 2214-7853, Vol-23 Part-3, 499-506, March 2020
Scopus Indexed
6. G. Vijay Kumar
Fabrication of Semi-automatic water bottle cleaning machine
2nd National Conference on Current Trends in Advance Manufacturing and Energy Systems (CTAMES)-2020, KITS, Guntur, March 2020
ISSN (E): 2249–8001
Scopus Indexed
7. K. Gopi Krishna, U. Koteswara Rao, Ch. Nagaraju
Mitigation of Stress concentration in a plate having a central hole subjected to tensile load using piezoelectric patches
Future Trends in Materials, Manufacturing and Mechanical Engineering National Conference on (FTMMME-2020) NIT Raipur, February 2020. Proceedings to IJMPERD.
Scopus Indexed
8. Sd. Abdul Kalam,
Design and Analysis of Hydraulic actuated Mandrel
Future Trends in Materials, Manufacturing and Mechanical Engineering National Conference on (FTMMME-2020) NIT Raipur, Proceedings to IJMPERD, February 2020.
Scopus Indexed