

DEPARTMENT OF MECHANICAL ENGINEERING

PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA

Publications (2022-23)

Web of Science		Scopus	Referred	Total Journals	International Conference		Book Chapters (Scopus)	Total Conference Publications	Total Publications
					(Scopus)	(Others)			
SCI	ESCI								
11	3	19	6	39	3	23	5	31	70

SCI Indexed Journals

1. **Balakrishna Gogulamudi**, Raghu Kumar Bandlamudi, Balakrishna Bhanavathu, Venkata Sarath Kumar Guttula, A Prediction Model for Additive Manufacturing of AlSi10MgAlloy, Transactions of the Indian Institute of Metals, July 2022, <https://doi.org/10.1007/s12666-022-02676-5>, **SCI Indexed**

2. **Mallampati Somaiah Chowdary**, Gujjala Raghavendra, M. S. R. Niranjan Kumar, Shakuntala Ojha, Manne Anupama Ammulu, P. Phani Prasanthi
Evaluation of mechanical and tribological properties of nano clay reinforced Kevlar/Sisal polyester composites, Polymer Composites. 2022;Pg: 1–9, September-2022, DOI: 10.1002/pc.27067, **SCI Indexed**

3. **P. Anusha**, M. Naga Swapna Sri, V.V. Venu Madhav, Ch. Sri Chaitanya, V.V. Spandana, Kuldeep K. Saxena, Dalael Saad Abdul-Zahra, Emanoil Linul, Chander Prakash, Dharam Budhi, Raul Campilho
Dynamics of MHD Convection of Walters B Viscoelastic Fluid through an Accelerating Permeable Surface Using the Soret–Dufour Mechanism, Appl. Sci. 2022, Volume-12, Issue-19, ISSN: 2076-3417; Sep-2022, **SCI Indexed**

4. **Phani Prasanthi** , Sivaji Babu Kondapalli, Niranjan Kumar Sita Rama Morampudi, Venkata Venu Madhav Vallabhaneni , Kuldeep Kumar Saxena, Kahtan Adnan Mohammed, Emanoil Linul , Chander Prakash , Dharam Buddhi
Elastic Properties of Jute Fiber Reinforced Polymer Composites with Different Hierarchical Structures, Materials 2022, 15, 7032. Pg: 1-20, October-2022, <https://doi.org/10.3390/ma15197032>
SCI Indexed

5. Kothuri Chenchu Kishor Kumar, **Bandalamudi Raghu Kumar**, Nalluri Mohan Rao

Tribological Parameters Optimization of AZ31-SiC Composite Using Whale Optimization Algorithm, Journal of Materials Engineering and Performance

Print ISSN: 1059-9495, November-2022, doi: <https://doi.org/10.1007/s11665-022-07570-1>

SCI Indexed

6. **Phani Prasanthi P**, Vallabhaneni Venkata Venu Madhav, Chadalavada Sri Chaitanya, Vallabhaneni Veda Spandana, Kuldeep K Saxena, Sahil Garg, Migbar A Zeleke, Prediction of impact behaviour for natural fiber-reinforced composites using the finite element method, Green Composites for Structural Applications, “Composites and Advanced Materials-2022”, Volume 31: 1–12; ISSN: 2634-9833, December-2022,
SCIE Indexed
7. **P.Phani Prasanthi**, M.S.R.Niranjan Kumar, M.Somaiah Chowdary, V. V. Venu Madhav, Kuldeep K Saxena, Kahtan A. Mohammed, Muhammad Ijaz Khan, Gaurav Kumar, Sayed M Eldin
Mechanical Properties of Carbon Fiber Reinforced with Carbon Nanotubes and Graphene Filled Epoxy Composites: Experimental and Numerical Investigations, Materials Research Express, IOP Publishing Ltd, December-2022, ISSN / eISSN:2053-1591,
SCI Indexed
8. **M. Naga Swapna Sri**, P. Anusha, V.V.Venu Madhav, Kuldeep Kumar Saxena, Ch. Sri Chaitanya, R Haranath Bharath Singh
Influence of Cu particulates on a356MMC using frequency response function and damping ratio, Advances in Materials and Processing Technologies, ISSN: 2374-0698, February-2023
SCIE Indexed
9. **Phani Prasanthi P**, N Raghu Rama, V Venu Madhav, Manoj Kumar Agrawal, Prasanta Kumar Mohanta, Kuldeep K Saxena, Ch Sri Chaitanya, Karrar hazim Salem, Barno Sayfutdinovna Abdullaeva
Tensile Behaviour of Natural Polymer Composite Materials at Ambient and Elevated Temperatures, Indian Journal of Engineering & Materials Sciences, Volume-30, Pp- 331-337, ISSN: 0975-1017, April-2023.
SCIE Indexed
10. **Phani Prasanthi**, K. SivajiBabu & M.S.R. Niranjan Kumar (2023):
Influence of cellulosic particle fillers on mechanical properties of hemp fibre-reinforced composites, Advances in Materials and Processing Technologies, DOI: 10.1080/2374068X.2023.2215593, ISSN: 2374-0698, Pp: 1-15
SCI Indexed
11. **Phani Prasanthi. P**, V. V. Venu Madhav, C. S. Chaitanya, V.V. Spandana, Kuldeep Kumar Saxena, Rajesh Deorari, Abhishek Chand Thakuri, Karrar Hazim Salem & Kahtan A. Mohammed

(2023): Force and Roughness Analysis for Natural Bagasse Fiber Reinforced Composites Under Milling Machining: An Experimental Study, Advances in Materials and Processing Technologies, DOI: 10.1080/2374068X.2023.2204774

SCI Indexed

Scopus Indexed Journals

1. Raviteja Surakasi, **Balakrishna Gogulamudi** , Alla Naveen Krishna ,Raja Ambethkar M,Pravin P. Patil , Pradeep Jayappa
Optimization of the Process of Metal NanoCalcium Oxide Based Biodiesel Production through Simulation Using SuperPro Designer, Hindawi, Journal of Engineering, Volume 2022, Article ID 3473356, 6 pages, July-2022
<https://doi.org/10.1155/2022/3473356>, **Scopus Indexed**
2. **M. Radhadevi**, G. Vijay Kumar, P. Gopala krishnaiah, Process optimization of Titanium alloy machining with Wire Electro Discharge Machining using Taguchi's Grey Relational Analysis, INCAS BULLETIN, Volume 14, Issue 3/ 2022, pp. 75 – 84 (P) ISSN 2066-8201, Sep-2022
DOI: 10.13111/2066-8201.2022.14.3.7, **Scopus Indexed**
3. Tarun Kumar Kottedda,D. Eshwar, **G. Balakrishna**, Sandeep Varma Kuchampudi,B. Durga Prasad,Sasivaradhan Sadasivam
Experimental Investigation on Metal Matrix Nanocomposite: Aluminium Alloy 6061 and 7075 with SiC and Fly Ash, Hindawi, Journal of Nanomaterials, Volume 2022, Article ID 8368934, 14 pages, September-2022
<https://doi.org/10.1155/2022/8368934>, **Scopus Indexed**
4. V. V. Venu Madhav, Ch. Sri Chaitanya, **P. Phani Prasanthi**, A. V. S. S. K. S. Gupta, V. V. Spandana, Kuldeep K. Saxena, Chander Prakash
Design and analysis of angle-ply arrangement on fracture properties of FRP composite structure under thermo-mechanical loading conditions subjected to central circle cut-out, International Journal on Interactive Design and Manufacturing (IJIDeM), <https://doi.org/10.1007/s12008-022-00984-0>, September-2022, **ESCI/Scopus Indexed**
5. L. Karthick , R. Rathinam , **Sd. Abdul Kalam** , Ganesh Babu Loganathan , R. S. Sabeenian, S. K. Joshi, L. Ramesh, H. Mohammed Ali, Wubishet Degife Mammo, Influence of Nano-/Microfiller Addition on Mechanical and Morphological Performance of Kenaf/Glass Fibre-Reinforced Hybrid Composites, Hindawi, Journal of Nanomaterials Volume 2022, Article ID 9778224, 10 pages, September-2022, **Scopus Indexed**, <https://doi.org/10.1155/2022/9778224>
6. Bhiksha Gugulothu ,**P. Anusha** , M. Naga Swapna Sri , S. Vijaya kumar , R. Periyasamy, Suresh Seetharaman

- Optimization of Stir-Squeeze Casting Parameters to Analyze the Mechanical Properties of Al7475/B4C/Al₂O₃/TiB₂ Hybrid Composites by the Taguchi Method, Hindawi, Advances in Materials Science and Engineering, ISSN / eISSN: 1687-8434, Volume 2022, Article ID 3180442, 9 pages, September-2022, <https://doi.org/10.1155/2022/3180442>, **Scopus Indexed**
7. S. Prabhu, **M. Naga Swapna Sri**, P. Anusha, G. Saravanan, K. Kannan, Selvaraj Manickam
Improvement of Mechanical Behavior of FSW Dissimilar Aluminum Alloys by Post weld Heat Treatments, Hindawi Advances in Materials Science and Engineering
ISSN / eISSN: 1687-8434, Volume 2022, Article ID 3608984, 8 pages, September-2022
<https://doi.org/10.1155/2022/3608984>, **Scopus Indexed**
 8. **M. Rajyalakshmi**, M Venkateswara Rao,
“Application of Artificial Neural Networks and Genetic Algorithm for Optimizing Process Parameters in Pocket Milling of AA7075”, Journal of Scientific & Industrial Research, Vol. 81, September 2022, pp. 911-921, ISSN: 0022-4456, DOI: 10.56042/jsir.v81i09.55874, **Scopus Indexed**
 9. **Kocharla, Ravi Prakash Babu**, Bandlamudi, Raghu Kumar, Aruri, D.
Finite element modeling aspects in the fracture assessment of a low pressure steam turbine blade, Int J Interact Des Manuf (2022), <https://doi.org/10.1007/s12008-022-01045-2>, October-2022, **Scopus Indexed**
 10. Jayaraman Mathiyarasu ,**Jasti Surendra** , Ganapavarapu Veera Raghava Sarma , Rajendran Rajaram , Sengottaiyan Shanmugan , Sankararao Mutyala, Graphene/Polyaniline nanocomposite as efficient electrocatalyst for oxygen reduction reaction for fuel cells, Inorganic Chemistry Communications, Volume 146, December 2022, Article: 110192, ISSN: 1387-7003, DOI: <https://doi.org/10.1016/j.inoche.2022.110192>, **Scopus Indexed**
 11. **M. Naga Swapna Sri**, P. Anusha, Vittel Rao, Rajendranrao, Krishnajirao, Manickam Selvaraj, B. Muthuvel, N. Karthikeyan
Experimental Investigation of Material Removal Rate Parameters in ECM for Aluminum Hybrid Matrix Composites Using the RSM Technique
Advances in Materials Science and Engineering, Volume-2023, Special Issue, 8406751, ISSN: 1687-8434, February-2023.
Scopus Indexed
 12. G. Vijay Kumar, **P. Gopalakrishnaiah**, M. Radha Devi, T. Vishnu Vardhan Balram Yelamasetti
Multi parameter optimization in end milling of S-glass fiber reinforced polymer composite using Taguchi technique coupled with Grey Relational Analysis, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-17, Issue-2, ISSN : 1955-2513, March-2023

Scopus Indexed

13. **K Ravi Prakash Babu**, K Murahari, Ch Murali Mohan
Real- time detection of faults in rotating blades using frequency response function analysis
Applied Mechanics, Volume-4 Issue 1, Pg: 356-370, ISSN: 2673-3161, March 2023,
Scopus Indexed
14. Raviteja Surakasi, Yenda Srinivasa Rao, **Sd. Abdul Kalam**, Naziya Begum,
Emissions and Performance of Diesel Engines Correlated with Biodiesel Properties,
Journal of Engineering, Hindawi, 2023, Article no: 5274325, Pg: 1-4, ISSN: 2314-4904,
April-2023, **Scopus Indexed.**
15. **Kode Srividya**, Seelam Pichi Reddy, Kurra Hari Prasad, Naga Sai Rama Krishna Thati,
Kilari Snehlita, Unnam Sai Pranay, Naga Venkata Sairam Yellapragada
Optimization of Process Parameters for Preparation of Lanthanum Hexa-Aluminate
Powders Using Combinatorial Approach of Taguchi-GRA and ACO Methods,
International Information and Engineering Technology Association (IIETA) Annales de
Chimie - Science des Matériaux, Volume-47, Issue-1, ISSN: 1958-5934, Pp: 43-50,
April-2023,
Scopus Indexed
16. **K. I. Vishnu Vandana**
Cutting temperature of graphene-reinforced ceramic cutting tool inserts during dry
turning of hardened steels, Multi-Disciplinary Science Journal, Volume-5, Issue-3, Pp:1-
7, ISSN: e2023038, May-2023
Scopus Indexed
17. **P. Phani Prasanthi**, Jaya Madhuri Mandava, V. V. Venu Madhav, Kuldeep K. Saxena
Ch. Sri Chaitanya Chander Prakash, Iman Kareem Kadhim, Manoj Kumar Agrawal
Computational analysis for flexural response of composite laminates using finite element
method, International Journal on Interactive Design and Manufacturing (IJIDeM),
Volume-17, Issue-2, Pp:1-7, ISSN: 1955-2513, May-2023,
Scopus Indexed
18. **Anusha P**, M.Naga Swapna Sri, Vijayakumar, S, Jeyakrishnan, S Saxena, K.K.
Design and optimization the wear characteristics for Al7178/TiO2/B4C/FA central hybrid
composite, International Journal on Interactive Design and Manufacturing (IJIDeM),
ISSN: 1955-2513, May-2023.
Scopus Indexed
19. Bhiksha Gugulothu, K. Bharadwaja, S. Vijayakumar, T. V. Janardhana Rao, **M. Naga
Swapna Sri**, P. Anusha, Manoj Kumar Agrawal

Modeling and parametric optimization of electrical discharge machining on casted composite using central composite design, International Journal on Interactive Design and Manufacturing (IJIDeM), ISSN: 1955-2513, May-2023

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ESCI Indexed Journals

1. P. Ravi Kumar, T. Nancharaiyah , D. Sameer Kumar, **Sd. Abdul Kalam**, G. Balakrishna Flapwise vibration of functionally graded rotating tapered beam with tipmass, Sigma J Eng Nat Sci, Vol. 40, No. 3, pp. 640–648, September, 2022

ESCI Indexed

2. **Vidya Chaparala**, Ravi Kiran Sastry Gadepalli, Phani Prasanthi Parvathaneni A molecular dynamics approach for a parametric study of colloidal suspension aggregation kinetics, International Journal on Interactive Design and Manufacturing (IJIDeM), Volume-17, Issue-2, Pp:1-11, ISSN: 1955-2513, May-2023,

ESCI Indexed

3. **Mastan Rao Papabathina**,Siva Sankara Babu Chinka,Nageswara Rao Putta,Murkonda Vijaya, Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites, Annales de Chimie - Science des Matériaux, International Information and Engineering Technology Association (IIETA), Volume-47, Issue-3, Pg 125-132, ISSN: -151-9107, June-2023.

ESCI Indexed

Others Journals:

1. M. P. Krishna Sai, K. Navya Sri, **K. I. Vishnu Vandana**, Review on Ceramic Materials for Cutting Tool Applications, International Journal of Research Publication and Reviews, Vol 3, no 9, pp 677-682, September 2022, ISSN 2582-7421, **Others**
2. **Vidya Chaparala**, G. Ravi Kiran Sastry, P. Phani Prasanthi, Contributing mechanisms for dispersion stability of nano fluids in theperspective of heat transfer application – A comprehensive review, Gradiva Review Journal, ISSN NO: 0363-8057, Volume-8,Issue 9, September-2022, Pg: 436-441, **Others**
3. Kamala Priya B, **Sravani V**, Dilip Kumar K Investigation Of Elliptical And Square Unit Cell For The Prediction Of Effective Thermal Conductivity, International Journal for Innovative Engineering and Management Research, Vol-11, Issue-9, ISSN: 2456 – 5083, Pp: 188-195, September-2022
4. **K. Srividya**, P. Anusha, E. Kavitha, M. Naga Swapna Sri, V. Sravani, Analytical and Experimental study on FVA of Isotropic and Orthotropic Laminates with FEM

Validations, INCAS BULLETIN, Volume 14, Issue 4/ 2022, pp. 145 – 156 ,(P) ISSN 2066-8201, (E) ISSN 2247-4528, **Others**

5. **T J Prasanna Kumar**, Y Ayyappa, M Kiran Kumar, SK Roshan, P Tharun Kumar, Flow Simulation and Experimental Comparative Study of Aerodynamic Forces on NACA 2415 Airfoil Scaled Model
Journal of Aerospace Engineering & Technology (JoAET), Volume-12, Issue-3, ISSN: 2231-038X, Pg:34-54; February-2023, **Others**
6. M. Venkateswarlu, **M.V.H. Satish Kumar**, G. Dharmiah
Mathematical Analysis of Gold, Platinum, and Magnetite Nanoparticle Shapes on Unsteady Radiative Flow of Nanoliquid along an Infinite Vertical Flat Plate in the Proximity of Convective Boundary Condition,
Diffusion Foundations and Materials Applications, ISSN: 2674-029X, Vol. 33, pp 3-21, April 2023. **Others**

Conference Publications (2022-23)

1. M.N.V.S.A. Sivaram Kotha, **T.J. Prasanna Kumar**, U. Gobikrishnan, TA. Selvan, S. Rajesh, S. Madhankumar, Electrical discharge Machining process variable assessment on Al 7075 mixed composite materials utilizing multi-criteria optimization method, Materials Today: Proceedings, August 2022, ISSN 2214-7853,
Scopus Indexed
2. T Rama Krishna , **T J Prasanna Kumar** , B Teja, Influence of Core-Face Plates and Cell geometry on the strength of Sandwich Honeycomb Structure, International Conference on “Emerging Trends in Mechanical Engineering and Industrial Automation” Organized by Dept of Mechanical Engg., Narsaraopet Engineering College, Narsaraopet, in Association with Institute of Engineers India from 29 to 30 July 2022, Proceedings of ICETMEIA-2K22, Page:45- 50, ISBN: 978-93-91420-07-9,
Others
3. **Vidya Chaparala**, G. Ravi Kiran Sastry P. Phani Prasanthi, Comprehensive Review on Mechanism Accountable for Dispersion Stability of UltraFine Particle Suspensions in Heat Transfer Applications, International Conference on “Emerging Trends in Mechanical Engineering and Industrial Automation” Organized by Dept of Mechanical Engg., Narsaraopet Engineering College, Narsaraopet, in Association with Institute of Engineers India from 29 to 30 July 2022
Proceedings of ICETMEIA-2K22, Page:91- 95, ISBN: 978-93-91420-07-9,
Others
4. **Ch. Lakshmikanth** , K. Venkatarao, A. Venkata Jayasri , S. Nagakumar, Experimental observation of Mechanical and microstructure properties of Corn /Coconut Hybrid composites with Alkali Treatment, International Conference on “Emerging Trends in Mechanical Engineering and Industrial Automation” Organized by Dept of Mechanical Engg., Narsaraopet Engineering College, Narsaraopet, in Association with Institute of Engineers India from 29 to 30 July 2022, Proceedings of ICETMEIA-2K22, Page:189- 193, ISBN: 978-93-91420-07-9,
Others
5. **Gopalakrishnaiah Peteti**, Venkaiah Mandula and Bharathi Penumall, Multi Optimization of Process Parameters using Grey Relational Analysis, International Conference on “Emerging Trends in Mechanical Engineering and Industrial Automation” Organized by Dept of Mechanical Engg., Narsaraopet Engineering College, Narsaraopet, in Association with Institute of Engineers

India from 29 to 30 July 2022, Proceedings of ICETMEIA-2K22, Page:114- 116, ISBN: 978-93-91420-07-9,

Others

6. **K. Venkatarao**, A. Venkata Jayasri, Ch. Lakshmikanth, S. Nagakumar, Investigation of Mechanical, Thermal properties and SEM analysis of Jute/Coconut Hybrid composites with Alkali Treatment, International Conference on “Emerging Trends in Mechanical Engineering and Industrial Automation” Organized by Dept of Mechanical Engg., Narsaraopet Engineering College, Narsaraopet, in Association with Institute of Engineers India from 29 to 30 July 2022 Proceedings of ICETMEIA-2K22, Page:257- 260, ISBN: 978-93-91420-07-9,

Others

7. K. Sri Ram Vikas, Rahul, **Ch. Kishore Reddy**, V.S.N. Venkata Ramana, Priyadarsini Morampudi, Ch. Prasad, Effect of Grade 5 titanium interlayer on microstructure and pitting corrosion behaviour of AA1100/A36 explosion welds, Materials Today: Proceedings, Volume 59, Part 3, October- 2022, Pages 1659-1665, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.03.330>

Scopus Indexed

8. **Gopalakrishnaiah Peteti**, K Anupama Francy, Experimental and Numerical investigations on Plain turning of AA 8011 alloy using Grey Relational Analysis, International Conference on Materials Innovation and Sustainable Manufacturing (ICMISM- 2022), 16th& 17thDecember 2022, organized by the Department of Mechanical Engineering, Vishnu Institute of Technology-Bhimavaram

Others

9. **Ch.Vidya**, Thermal Degradation study of cotton waste pulp based cellulose nanocrystals, International Conference on Materials Innovation and Sustainable Manufacturing (ICMISM-2022), 16th& 17thDecember 2022, organized by the Department of Mechanical Engineering, Vishnu Institute of Technology-Bhimavaram,

Others

10. **U. Koteswara Rao** , Tarun kumar has participated and presented a paper on “Collaborative Learning Robots” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023.**Others**
11. **I Manoj Kumar**, V L Krishnan, V Sravani, G Pavan Kumar, K Kiran Kumar has participated and presented a paper on “Design of IOT Based System for Ensuring Reliable Functioning of Solar Powered Unmanned Aircrafts” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
12. **Mr. Koteswara Rao Unnam**, Bommu Tarun Kumar, Karra Jagadeesh, Kandula Naveen, Mallampalli Kushwanth has participated and presented a paper on “A Novel PCB prototype for smart garden” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
13. **Sd. Abdul Kalam**, Sk. Ziavulla, Sk. Abdul Rahman, Sk. Karim, R. Santhosh has participated and presented a paper on “Strength Analysis of Aircraft Composite Structure due to Air loads during flight by Finite Element Method" at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023]

organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**

14. **T J Prasanna Kumar**, Y Ayyappa, M Kiran Kumar, Sk Roshan, P Tarun Kumar has participated and presented a paper on “Comparative Analysis of Semi Monocoque Structured Aircraft Nose Cone Made of Different Titanium Graded Alloys at different operating conditions" at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
15. Sivananda Uddagiri Aishwarya Nalluri Pradeep Sathivada Kali Prasad Potluri, **P.Mastan Rao** has participated and presented a paper on “Design of a Self Guarded Drone and Analysis Using Fusion 360” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
16. **Dr.M.Naga Swapna Sri**, Dr.P.Anusha, Rumalla Haranath, Dr.K.Srividya, Neelapu Nikhil Babu, Pajjuru Jaswanth, Rakesh Nimmakuri, Vineeth Pamu Rahul, Muppalla Praveen Chowdary has participated and presented a paper on “Design and Fabrication of Total Emissivity Measuring Apparatus” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
17. **Dr. K. Srividya**, Ch. Ravi Kiran, B. Raghu Ram, B. Ravindra Naik, K. Varun Sai has participated and presented a paper on “New Approach of Generation of Power by Using Wind Energy” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
18. **Dr.P.Anusha**, Dr.M.Naga Swapna Sri, Dr.K.Srividya, V.Sravani, Vemulapalli Chinmai, Saggurthi Ramadevi, Shaik Khiser Siddiq, Tellam Venkanna babu, Muppalla Praveen Chowdary has participated and presented a paper on “Colour Importance in Radiation Heat Transfer-An Experimental Work” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
19. Ch.Mahesh , D.Sai Charan ,Abdul Sattar ,E.Rupesh Tarun, **Ch. Mohan Sumanth** ,Dr. P. Phani Prasanthi has participated and presented a paper on “Analysis of Welded Structure in Finite Element Method” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
20. **K. Venkatarao**, Ch. Lakshmi Kanth, Venkata Jayasri, Ch. Mani Kishore, Chaitanya has participated and presented a paper on “Estimation of Mechanical and Thermal Properties of Glass and Sisal Fiber Composites with Polyester Resin Matrix” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**
21. **Dr. K.I.Vishnu Vandana**, Dr. M. Rajyalakshmi, Dr. P. Phani Prasanthi, S. Chandrasekhar Tirumala Kumar has participated and presented a paper on “Two-body abrasive wear of Alumina and Alumina-graphene composite ceramic material: Effect of

Speed and Sliding Distance” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**

22. **M. Rajyalakshmi**, K. I. V. Vandana, S. Naga Kumar has participated and presented a paper on “Multi-Response Optimization of Machining factors in Pocket Milling of AA6082 Using Grey Relational Analysis” at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023. **Others**

23. Jalli Emanuel, Prasada Raju Kanteti, **G Bala Krishna**, M Vijay Daniel, B Durga Prasad Optimization of process parameters in Friction stir welded AA6063 and AA7075 Joints, “Intelligent manufacturing and Energy Sustainability”, Pp-285-294, June-2023,

Scopus Indexed

24. **K. Venkata Rao**, Ch Lakshmikanth, P Savithri devi, Y. Rohith, T Hari Krishna, V. Veera Manikanta, “ A study on the mechanical and thermal properties of natural fiber reinforced hybrid composites”, at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023, **Others**

25. **Ch Lakshmikanth**, K. Venkata Rao, K Bhagya Sri, T kiran kumar, M Manoj Kumar, V Murali Krishna” Experimental Investigation of teak wood particles and hemp fiber hybrid reinforced composites, at Two Day International Conference on Recent Advances in Mechanical Engineering-2023 [ICRAMIE-2023] organized by Mechanical Engineering Department, PVPSIT, Vijayawada from 24/03/2023 to 25/03/2023, **Others**

26. M. Venkateswarlu, **M. V. H. Satish Kumar**, G. Dharmiah, Mathematical study of MHD nano Carreau liquid flow in an inclined cone and wedge in the proximity of porous medium and chemical reaction, AIP Conference Proceedings 2819, 050001 (2023), <https://doi.org/10.1063/5.0137011>, JUNE 08 2023 **Others**

Book Chapters:

1. **Ch Vidya**, G Ravi Kiran Sastry, P Phani Prasanthi, Ch Lakshmikanth, Thermodynamic Analysis of cross flow heat exchanger with organic blends as substitute to ionic coolants, Springer nature, Lecture Notes in Mechanical Engineering(LNME), Recent Advances in Applied Mathematics and Applications to the Dynamics of Fluid Flows, ISBN: 978-981-19-1928-2, Pages:285-296, October-2022, DOI: 10.1007/978-981-19-1929-9_25 **Scopus**
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