



**VIGNAN'S LARA**

**INSTITUTE OF TECHNOLOGY & SCIENCE**

Approved by AICTE New Delhi & Affiliated to JNTUK Kakinada  
Vadlamudi - 522 213, Guntur District

**Research Journal Publications during Last Five Years in ME Department**

<b>S.No</b>	<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Name of journal</b>	<b>Year</b>	<b>ISSN</b>
1	Experimental and optimization studies of ultrasonic-assisted friction stir elements of AA2014-T651 using graph theory	Borigorla Venu	The International Journal of Advanced Manufacturing Technology	2022	1433-3015
2	Creep and Corrosion Characteristics of Laser Welded AA5083 Al-Mg alloy	M Mohammed Asif, Mustafa Umar, Paulraj Sathiya	Lasers in Manufacturing and Materials Processing	2022	2196-7237
3	Influences of Boron Carbide Particles on the Wear Rate and Tensile Strength of AA2014 Surface Composite Fabricated by Friction-Stir Processing	M Mohammed Asif, Boopathi, M Mageswari	Materials and Technology	2022	1580-3414
4	Assessment of diesel engine characteristics by using soybean oil as a biofuel	Nageswara Rao Gangolu, Bala Rama Krishna Chunchu, Abshalomu Yallamati, Radha Krishna Gopidesi	Environment, Development and Sustainability	2021	1573-2975
5	Simulation and experimental analysis on cast metal runs behaviour rate at different gating models	T Deepthi, K Balamurugan, M Uthayakumar	International Journal of Engineering Systems Modelling and Simulation	2021	1755-9758

6	Thermodynamic analysis of single slope solar still using graphite plates and block magnets at seasonal climatic conditions	R. Dhivagar; M. Mohanraj; Praveen Raj; Radha Krishna Gopidesi	Water Science & Technology	2021	1996-9732
7	Modeling and multi response optimization of mechanical properties for E-glass/polyester composite using Taguchi-grey relational analysis	Phaneendra Kumar Kopparthi, Vengal Rao Kundavarapu, Venkata Rao Kaki, Bhaskara Rao Pathakokila	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021	0954-4089
8	Statistical analysis for fatigue life evaluation of woven E-glass/epoxy composite laminates containing off-centre interacting circular holes	Bhaskara Rao Pathakokila, Ramji Koonna, Rama Krishna Avasarala, Satya Devi Ambadipudi, V Manoj Kumar Uppuluri	Mechanics of Time-Dependent Materials	2021	1385-2000
9	Failure analysis of delaminated carbon/epoxy composite under pure bending: validation with numerical analysis	Phaneendra Kumar Kopparthi, Srikar Gemaraju, Bhaskara Rao Pathakokila, Suresh Gamini	Multidiscipline Modeling in Materials and Structures	2021	1573-6105

10	Impact of injection timings and exhaust gas recirculation rates on the characteristics of diesel engine operated with neat tamarind biodiesel	Bala Prasad K., Dhana Raju V., Ahamad Shaik A., Gopidesi R.K., Sreekara Reddy M.B.S., Soudagar M.E.M., Mujtaba M.A.	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2021	15567036
11	Chemo-mechanical synthesis, characterization of nanocellulose from okra fibre and their epoxy composites	Nadendla S., Kopparthi P.K.	Advances in Materials and Processing Technologies	2021	2374068X
12	Experimental investigations on flexural behaviour of delaminated carbon/epoxy composite using three dimensional digital image correlation	Phaneendra Kumar Kopparthi, Srikar Gemaraju, Bhaskara Rao Pathakokila, Suresh Gamini	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2020	0954-4062
13	Estimation of damping in riveted short cantilever beams	Yemineni Siva SankaraRao, KutchibotlaMallikarjunaRao, V. V. SubbaRao	Journal of Vibration and Control	2020	1077-5463

14	A Review on Surface Displacements and Strains using Digital Image Correlation Techniques	SrikarGemaraju, Kiran Kumar YadavAerra, Suresh Gamini,Phaneendra Kumar Kopparthi, BhaskaraRaoPathakokila	Journal of Mechanics of Continua and Mathematical Sciences	2020	2454-7190
15	Tensile and Flexural Properties of Delaminated Woven E-glass/epoxy Composites	Phaneendra Kumar Kopparthi, Kiran Kumar YadavAerra, SrikarGemaraju, BhaskaraRaoPathakokila, Suresh Gamini	Journal of Mechanics of Continua and Mathematical Sciences	2020	2454-7190
16	Bending and viscoelastic behaviour of delaminated woven E-glass/epoxy composite	Phaneendra Kumar Kopparthi, Kiran Kumar YadavAerra, BhaskaraRaoPathakokila, Suresh Gamini	Australian Journal of Mechanical Engineering	2020	1448-4846
17	Compatibility of A Diesel Engine For Jatropa And Tamarind Seed Oil Mixed Biofuel And Its Impact on Environment	Radha Krishna Gopidesi, RajavarapuRambabu, ChunchuBalarama Krishna, Yemineni Siva SankaraRao& S. Srikanth Reddy, Premkartikkumar SR	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2020	2451-2456

18	CFD Analysis of Rb211 and Cfm 56 Chevron Nozzles	N.M.K. Sarath Kumar, A.Vamsi Krishna, G.Shyam Mahesh, K.Bharath Kumar, M.Venkataiah	Journal of Mechanics of Continua and Mathematical Sciences	2020	0973-8975
19	Modeling of glass fiber reinforced composites for optimal mechanical properties using teaching learning based optimization and artificial neural networks	Kopparthi P.K., Kundavarapu V.R., Dasari V.R., Kaki V.R., Pathakokila B.R.	SN Applied Sciences	2020	25233971
20	Experimental assessment of performance, combustion and emission characteristics of diesel engine fuelled with lemon peel oil	Aruna Kumari A., Sivaji G., Arifa S., Sai Mahesh O., Raja Rao T., Venkata Kalyan S., Dhana Raju V., Bhargava K., Lakshman Reddy K.	International Journal of Ambient Energy	2020	1430750
21	Effects of lemongrass oil as fuel in diesel engine	Gangolu N.R., Gopidesi R.K., Anudeep I.M.	INCAS Bulletin	2020	20668201
22	Multi objective optimization of friction stir weldments of AA2014-T651 by Teaching learning based optimization	Raju L.S., Venu B., Mallaiah G.	INCAS Bulletin	2020	20668201

23	A research on the performance, emission and combustion parameters of the hydrogen and biogas dual fuel engine	Mutluri A., Gopidesi R.K., Valeti S.V.	INCAS Bulletin	2020	20668201
24	Wear behaviour of SAE 4340 steel in comparison with single test specimen	Srinivasababu N.	INCAS Bulletin	2020	20668201
25	Assessment of performance, emission and combustion characteristics of dual-fuel engine with exhaust gas recirculation	Gopidesi R.K., Kancharla A., Kumma N., Pathakokila B.R.	Progress in Industrial Ecology	2020	14768917
26	Meta-heuristic optimization of copper friction stir weldments	Raju L.S., Venu B.	INCAS Bulletin	2020	20668201
27	Assessment of diesel engine characteristics fuelled by jatropha with tamarind seed oil biodiesel	Gopidesi R.K., Gangolu N.R.	INCAS Bulletin	2020	2066-8201

28	Modal Analysis of Uniform Short Cantilever Beam using Theoretical and Experimental Approaches	Y. Siva Sankara rao	Manufacturing Technology Today	2019	0972-7396
29	Abating environmental pollutant of a diesel engine by using emulsified fuel	Gopidesi R.K	Ambient Energy	2019	2162-8246
30	Experimental Investigations on Flexural Behaviour of Glass Fiber Reinforced Composite Containing Artificial Delamination	K. Phaneendra Kumar, G. Srikar, A. Kiran Kumar Yadav, P. BhaskaraRao	International Journal Of Mechanical And Production Engineering Research and Development (IJMPERD)	2019	2249-6890
31	Effect of Yttrium (20%) doping on mechanical properties of rare earth nano lanthanum phosphate (LaPO <sub>4</sub> ) synthesized by aqueous sol-gel process	Deepthi T., Balamurugan K.	Ceramics International	2019	2728842
32	Etchant for normal and abnormal grain growth microstructure in RAFM steel at different annealed temperatures [Ätzmittel zur Darstellung der Mikrostruktur	M. Venkatesh	Praktische Metallographie/Practical Metallography	2019	0032678X

	von RAFM-Stählen mit stetigem und unstetigem Kornwachstum nach unterschiedlichen Glühtemperaturen]				
33	Evaluation Dual Fuel Engine Fuelled With Hydrogen and Biogas as Secondary Fuel	Gopidesi R.K., Valeti S.V., Kumma N., Mutluri A., Venu B.	International Journal of Recent Technology and Engineering	2019	22773878
34	Evaluation of common rail direct injection engine performance, and emission characteristics by using cotton seed oil	Subrahmanya Phani Kumar N., Bhukya B., Kumma N., Valeti S.V., Gopidesi R.K.	International Journal of Engineering and Advanced Technology	2019	22498958
35	Effect of cotton seed oil in diesel engine performance emission and combustion characteristics	Gopidesi R.K., Ram Kishore Reddy V., Sai Sandeep Kumar V., Vishnu Vardhan T., Jeevan Reddy V.	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
36	Probability study on the thermal stress distribution in thick hk40 stainless steel pipe using finite element method	Bobba S., Abrar S., Rehman S.M.	Designs	2019	24119660



37	Experimental investigation on diesel engine fuelled with hythane gas	Kumma N., Gopidesi R.K., Rao T.R., Kumar K.M., Premkartikkumar S.R.	International Journal of Mechanical Engineering and Technology	2019	9766340
38	Determination of flow front velocity and optimal injection pressures for better impregnation of E-glass with polyester in resin transfer mold	Kopparthi P.K., Kundavarapu V.R., Dasari V.R., Pathakokila B.R.	INCAS Bulletin	2019	20668201
39	Buckling study of conical shells subjected to uniform external pressure using theoretical and FEA approaches	Yemineni S.S.R., Kutchibotla M.R.	Revue des Composites et des Matériaux Avancés	2019	11697954
40	Evaluating the performance and emission characteristics of ci engine with waste plastic oil	Gopidesi R.K., Sankar G.R., Pavan Kumar A.D., Kumar A.S., Srimal B.	International Journal of Mechanical and Production Engineering Research and Development	2019	22496890
41	Fabrication of Chemically Treated Pure-Bred Coconut Leaf Sheath Fibre Reinforced Composites and Determination of Mechanical Properties	NadendlaSrinivasababu	Macromolecular Symposia	2018	1521-3900

42	Free Transverse vibration analysis of uniform Short Beams	Yemineni Siva Sankara Rao Kutchibotla Mallikarjuna Rao	Global Journal of Engineering Science and Researches	2018	2348 -8034
43	Effects water Diesel Emulsion on Diesel Engine	DattaSai K, Radha Krishna Gopidesi, PremkartikkumarSR&Nagarjuna K	International Journal of Mechanical and Production Engineering Research and Development	2018	2249-6890
44	Fatigue life and damage evolution of glass fiber/epoxy laminates containing interacting circular holes	PathakokilaBhaskaraRao, Avasarala Rama Krishna, Koonarajji, AmbadipudiSatya Devi	Journal of Materials: Design and Applications	2018	2041-3076