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Principal's Message



I am proud and honored to write this message since this newsletter is a testament to the Mechanical Engineering Department's commitment to outcome-based education and improved student-teacher learning, which is in keeping with the department's vision and goal. I hope that the department will continue to work hard to improve education quality and bring honour to the institute.

Dr. K. Ashoka Reddy

HoD's Message



A newsletter PULSE reflects a clear picture of Mechanical Department's activities. This issue of the Mechanical Engineering Department, I am confident, will send a favorable message to all students, faculty and staff. Congratulations to the newsletter's Editorial Board, who did an outstanding job in completing the mission. Sincere congratulations to all faculty, staff members and students for their successful efforts during the course of the period.

"Best Regards

Dr. K. Raja Narender Reddy

Conferences conducted by the faculty during May 2022

Prof. K. Sridhar and **Dr. G. Ganesh Kumar** conducted AICTE sponsored International Conference on "Energy Sustainability" (AICTE-ES) during 20th - 21st May 2022.



Paper Published by the Faculty in May - 2022

Shakuntala Ojha, V. Pranay, G. Raghavendra, **G. Sumithra**, **P. Divya** “*Evaluation of Abrasive wear of Bio-Waste based Silica/Carbon particulate Epoxy composites*” Advances in Chemical, Bio and Environmental Engineering, May 2022.

Shakuntala Ojha, K. Rakesh, P. Subhash Chandrabose, G. Raghavendra, B. Anji Reddy “*Over view of Gel casted fused Silica Ceramics*” Advances in Chemical, Bio and Environmental Engineering, May 2022.

G. Sumithra, B. Saikumar, Sk. Yunas, T. Srikanth, **K. Raja Narender Reddy**, “*Analysis and Comparison of Mechanical Properties of a Specimen by Using FEA*” Environmental Science and Engineering, pp 481-504, 12 May 2022.

Paper Presented by the Faculty in Conferences during May - 2022

- MD Sameer and Pabba Srikanth “*Effect of addition of B4C and Al2O3 reinforcement nanoparticles on properties of aluminium metal matrix composites fabricated via stir casting route*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- P.S.S. Murthy; A. Satyadevi, A. Gopala Krishna, “*Genetic algorithm based mass distribution models for minimizing shaking effects in a spatial mechanism*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- P.S.S. Murthy, V. Rakesh, D. Mahesh Chandra, I. Shiva Prasad, B. Anu, J. Tharun, “*Design and Analysis of Composite Propeller Shaft*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Smt. P. Anitha, Ms. G. Sumithra, Lokini Aravind, “*Design and manufacturing of human bone on 3d printer*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- U. Shrinivas Balraj, Abheejith Malge, V. Prasanna, B. Saikumar, S. Khadeer, P. Charan, B. Saidulu, “*Effect of Thermo-Electrical Energy Parameters on Material Removal Rate and Tool Wear Rate in EDM of Magnesium Alloy - ZE41 using Taguchi's L27 Orthogonal Array*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- V. Rakesh, Ramya Sri, Eshwar, Nethaji, “*Design and fabrication of attachable wheelchair automator*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- P. Sreedhar, D. Laxman, Vikas, K. Sai Teja, D. Vishwa Teja, S. Imran, “*Optimization of friction surfacing process parameters of aa3003 alloy coating over mild steel substrate*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- D. Sammaiah, B. Bindu, P. Sharon Shirley, M. Adithya, MD. Haseeb Akhtar, “*Design and analysis of vertical axis wind mill*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Ch. Karunakar, Y. Sai Sree, P. Kaveri, P. Akhil Teja, V. Sri Kiran, B. Mahesh Kumar, “*Fabrication and Characterization of Hybrid Cellulose Composites*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- S. Chandramouli, K. Eswaraiah, B. Gayathri Kavya Sree, G. Yeshaswi Reddy, S. Viprav Nandan and V. Nitish, “*Analysis and Optimization of EDM parameters using Response Surface Methodology*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- P. Divya, K. Kishor Kumar, K. Ashish, K. Shanthan Rao, N. Sai kiran, Syed Abdul Ahad, “*Evaluation of Wear Properties of Kenaf and Banana Fiber Reinforced Hybrid Composites*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Dr. G. Ganesh Kumar, K. Sridhar, “*Numerical Studies on combined conduction and convection through Perforated Fins*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- S. Anil Kumar, Abhay Lingayat, Martha Praneesha, Kadari Vivek, Yama Sai Chandra, Addala Sai Anvesh, “*Numerical Analysis of Triangular Channel Solar Air Heater*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- G. Ganesh Kumar, K. Sridhar, “*Numerical Studies on Effect of an Angle of Attack on Bow Shock 508*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- P. Divya, K. Kishor Kumar, Sangala Vamshi Krishna, “*Evaluation of Elastic and Impact Behaviour of Short Hybrid Natural Fiber Reinforced Composites*” AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.

- " A.V.S. Ramanuja Charyulu, Srinivasa Reddy Badduri, R. Sa Charan, A. Shiva Charan, Md. Nabeel **"Effect of Stiochiometric Ratios on performance of Proton Exchange Membrane Fuel Cell"** 20th ISME Conference on Advances in Mechanical Engineering, 19th - 21st May 2022 at Indian Institute of Technology Ropar.
- " Nikhitha Modhe, Srinu Gugulothu, Goutham Adulapuri, Ch. Vinay, Tanveer Khan, Vamshi Krishna Pasam, Md. Sameer **"Perfomance Assessment of Vegetable Oil Based Hybrid Nanofluids in Turning of Titanium Alloy using minimum quantity lubrication (MQL) Techniqs "** 20th ISME Conference on Advances in Mechanical Engineering, 19th - 21st May 2022 at Indian Institute of Technology Ropar.
- " K. Vinoothna, K. Sumana, Arun Sharma, Anju Naik, Sai Kumar Gadakary **"Preparation and Characterization on Titanium Dioxide, E-Glass Fyber Reinforced Epoxy based composites"** 20th ISME Conference on Advances in Mechanical Engineering, 19th - 21st May 2022 at Indian Institute of Technology Ropar.
- Md. Ali Irshad ur Rahman, P. Anitha, Nazrin, G. Praneeth Reddy, Ch. Vamshi Reddy **"Characterisation and fabrication of metal matrix composites using vibration assisted casting"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - Neeraj K, Raj Kushal K, MD Amaan, K Arun, S Ramesh, K Raja Narendra Reddy, **"Heat transfer enhancement using copper oxide nano fluid"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - Shada Sushmith, M. Om Prakash, Chintapandu Varshith, JVS Hitesh, Dudapaka Raghupathi, **"Preparation of energy sustainable carbon materials from Arhar shell biomass materials"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - Shivani Gurrapu, Dr. K. Sridhar, Pendra, Gopichander, Venkat Reddy Gudipelly Dinesh Reddy Sadi, Nalini Dasari, Koushik Pesaru, **"Energy and Exergy based Analysis of a Solar Air Heater With Structural Modifications to the Absorber Surface"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - P. Bhavana, V. Rajesh, T. Vinay Kumar, K. Sai Tharun Naik, Ayesha, **"Automated solar panel cleaning system using wiper mechanism"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - R. Anish Sai, Dr.C. Naresh, B. Vinay Prathap, T. Hruthiek Reddy and G. Annamaiah, **"Fabrication and charecterisation of glass fiber reinforced polymer nanocomposite"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - S. Sai Charan, Dr.G. Srinivasa Rao, G. Aravind, L. Raghu Charan and Ch.Bharath, **"Thermal analysis of solar collectors with and without porous layers with effect of nanofluids and hybrid nano-fluids"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - Vivek Kudikala, Sunny Manda, Azad Reddy. P, Krishna Kalyan. L, A. Hari Kumar, **"Modeling and Numerical Characterization of Open-Cell Metallic Foam"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - B. Raghu, B. Shyam Kumar, K. Srikanth, V. Vishnu, Ch. Naresh, **"Experimental Investigation on EDM Characteristics of Nickel based super Alloy"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - Mohammed Farhan Ahmed, Dr. G. Srinivasa Rao, Raju V.B, Pingili Sindhuja Reddy, Putta Surya Teja Hatkar Rahul, **"Combined Convection Heat Transfer Over Cylindrical and Spherical Object with and without Porous Medium in Presence of Nanofluids"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - E. Vamshidhar Reddy, G. Sai Shashank, M. Balaji, M. Hrithik, Afzalunnisa, P. Sreedhar, **"Surface modification through friction stir process tool and their property analysis"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - D. Ramya Sri, Jaswanth Singh Thakur, G. Rushitha, K. Shiva Teja, J. Laxman, T. Akhila, **"Modeling of EDM process parameters using response surface methodology"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - Chennaboina Mounika, Sri. S. Anil Kumar, Abhay Lingayat, Aku Shailaja, Sowdamalla Nithin Kumar, Mohammed Zahid, **"Numerical Analysis of Circular Duct Solar Air Heater"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
 - T. Srikanth, G. Ganesh Kumar, Karthik Iyer, L. Shanmukha Srinivas, T. Vishnu, and T. Sowmya, **"Design and Fabrication of Heat Exchanger for Power Generation"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.

- G. Vamshi, Dr. K. Raja Narendar Reddy, V. Srikanth, D. Ajay Kumar, D. Aditya K. Suhas, Dr. D. K. Nageswar Rao and K. Reiki Tanaya, "**Mechanical Characterization of Tamarind Fiber Reinforced Guar Gum**" AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Md. Ali Irshad ur Rahman, P. Anitha, Nazrin, G. Praneeth Reddy, Ch. Vamshi Reddy "**Characterisation and Fabrication of Metal Matrix Composites using Vibration Assisted Casting**" AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
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- Ramya Maddi, Kireeti Peddapatlolla, Pradeep Mukkera, Bhanu Kiran Akuthota, Devaraju Aruri, Krishna Kishore Mugada, Prasanna V, "**Fabrication and Characterization of Al/(ZrO₂+B₄C) surface nano composites via friction stir processing**" AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.

- Kadivendi Swetha P. Prabhakara Rao, Dara Hanmitha, Shaik. Sohail, **"Fabrication & Characterization of Al 2014 Metal Matrix Composite through Frequency Induction Melting"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Katla Rajendar1, Dr. K. Eswaraiyah, SK. Yunas, L. Shiva Krishna, B. Vamshi Krishna and L. Sai Kumar, **"Prediction of Hardness and Tensile Strength Properties of Aluminum-Based Hybrid Composites: Comparative Study of Statistical Mixture Design and Artificial Neural Network Model"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- D. Sathvik Reddy, G. Vinod Kumar, M.A.Z.Aftab, K. Ashritha and D. Rahul, **"Design and fabrication of solar drying systems"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Jaswanth Singh Thakur, J. Laxman, K. Eswaraiyah, D. Ramya Sree, **"Optimization of EDM Parameters Using Response Surface Methodology"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- R. Rakesh, Srinivasa Reddy Badduri, B. Naveen, M. Vinay, A. Sai Kiran, **"Effect of Perforated current collectors on the performance of the passive Direct Methanol Fuel Cell"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Mohammed Hafeez, M Anil Kumar, Dr. P. S. Srinivasa Murthy, **"Design & Analysis of an Automotive Radiator for an Enhanced Liquid Cooling System"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- V. Ritwik, P. Prabhakara Rao, B. Balakrishna and Mohd Shamsheer, **"Some Studies on Role & Impact of 3D Printing Technologies in Casting"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- M. Vinay, Dr. E. Ramesh, Prabodh Kumar Pandey, M.Pavan Raj, M. Nischith, M. Rajkumar, **"Three-Dimensional Numerical Simulation of Rotating Ribbed Duct"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- A.V.S. Ramanuja Charyulu, Srinivasa Reddy Badduri, R. Sa Charan, A. Shiva Charan, Md. Nabeel, A. Dhanunjay Kumar, **"Performance Evaluation of Miniature Proton Exchange Membrane Fuel Cell using Serpentine Flow Channel Configuration"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Mamidala Yugendher Reddy, Karuka Raja Narender Reddy, Vallala Srikanth, Kakkerla Keerthana, Jatoth Kalyan Kumar, Nathi Rahul, Dr. D.K. Nageswar Rao, and K. Reiki Tanaya, **"Effect of Chemical Treatment of Reinforcement on the Dielectric Properties of Kondagogu Gum Composites"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- K. Santhosh, Challa Karunakar, M. Sravani, N. Bharath, A. Sanjay, M. Om Prakash, **"Mechanical and Morphological Studies of Jute Cellulose Reinforced Composites"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Sunil Kumar Pulluru, O. Mounika, B. Ramya, Manoj Kumar, B. Abhinay, Sameer MD, Anil Kumar Birru, **"Experimental Investigation of Electric Discharge Machining Parameter Effects on Aluminium Metal Matrix Composites Using RSM Approach"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- V Yashwanth, Dr. A. Deva Raju, K. Murahari, P Thilak Rao, M Arun Teja and G Manivarma, **"Fabrication and Charecterisation of Shape Memory Polymer Materials"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- Kaushik Mandaloju, I Prashanth, E Shiva Preetham, B V Sai Prudhvi, P. Prabhakara Rao, Saikumar Gadakary, **"Preparation and Characterization of Aluminium Metal Matrix Composites"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- N. Shruthi, Md. Sufiyan, K. Sai Suhas Reddy, Ch. Shiva Manikanta and MD. Sameer and J. Dhanush, **"An Experimental Investigations on the Friction Stir Welded AZ91 Magnesium 465 Alloy Reinforced with Al2O3 Nanoparticles"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.
- D. Akhila, G. Sandeep, Md Aamir Sohail Khan, K. Navneeth Kumar, P. Srikanth, **"Some Experimental Studies on Micro-EDM of Titanium Based Alloy"** AICTE Sponsored International Conference On Energy Sustainability (AICTE-ES-2022), 20th-21st May 2022 at KITS Warangal.

- Webinar on *"Learnings from Jamnalal Bajaj, an industrialist social reformer and philanthropist"* by **T Ravi Teja** on 02-05-2022.
- Webinar on *"Revelutionizing energy with graphene- learnings from Ashok singhal CEO of log9 materials"* by **K.Sai Teja** (II B. Tech- MED) on 04-05-2022.
- Webinar on *"How the Chasis of a Vehicle is Built"* by **T Ravi Teja** on 06-05-2022
- Webinar on *"The untold story of Ram Prasad Bismil, the poet, patriot and exemplary freedom fighter"* by **Harshavardhan** (VI B. Tech- MED) on 09-05-2022.
- Webinar on *"Failing for success- Henry A. Ford"* by **K. Shanthan Rao** (B18ME022) (IV B. Tech- MED) on 11-05-2022.
- Webinar on *"Anti lock braking system"* by **Mr. K. Vishnu Vardhan** (II/IV B. Tech- MED) on 13-05-2022.
- Webinar on *"First Tribal Freedom Fighter of India- Tilka Manjh"* by **V. Rajesh** on 16-05-2022.
- Webinar on *"India's first eco friendly drinking water box caro water"* by **K. Siddhartha** (B19ME018) (III B. Tech- MED) on 18-05-2022.
- Webinar on *"Turbo-machinery"* Mr. **R. Vamshi Krishna** (III/IV B. Tech- MED) on 20-05-2022.
- Webinar on *"Acharya' of Indian Chemistry- Prafulla Chandra Ray"* by **V. Rajesh** on 23-05-2022.
- Webinar on *"The flight of wright brothers"* by **Mr. P. Shiva TEJA** (B19ME161) (III B. Tech- MED) on 25-05-2022.
- Webinar on *"The Suspension System"* by **Mr. K. Akash** (II/IV B. Tech- MED) on 27-05-2022.
- Webinar on *"The untold story of the Kathiawadi Doctor Pran Jivandas Jagjivandas Mehta"* by **A Vishnu Vardhan** on 30-05-2022.