

Student Achievement

- Mr. Rahul Vennam received Certificate of appreciation for being recognized as NPTEL BELIEVER



Dr. K. Ashoka Reddy
Principal, KITSW

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, keeping with the department's vision and goal. I hope the department will continue to work hard to improve its education quality and bring honor to the institute.



Dr. K. Raja Narendar Reddy
HOD - ME, KITSW

A newsletter PULSE reflects a clear picture of the 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 period. Best regards,

Internships

- Students undergoing INTERNSHIP at **SIEMENS CENTER OF EXCELLENCE - NIT, WARANGAL**



Chief Editor

Dr. K. Raja Narendar Reddy
Professor & Head



Editors-in-charge

Sri K. Kishor Kumar, *Assistant Professor*
Smt. P. Anitha, *Assistant Professor*
Sri V. Rajesh, *Assistant Professor*



Student Editorial Board

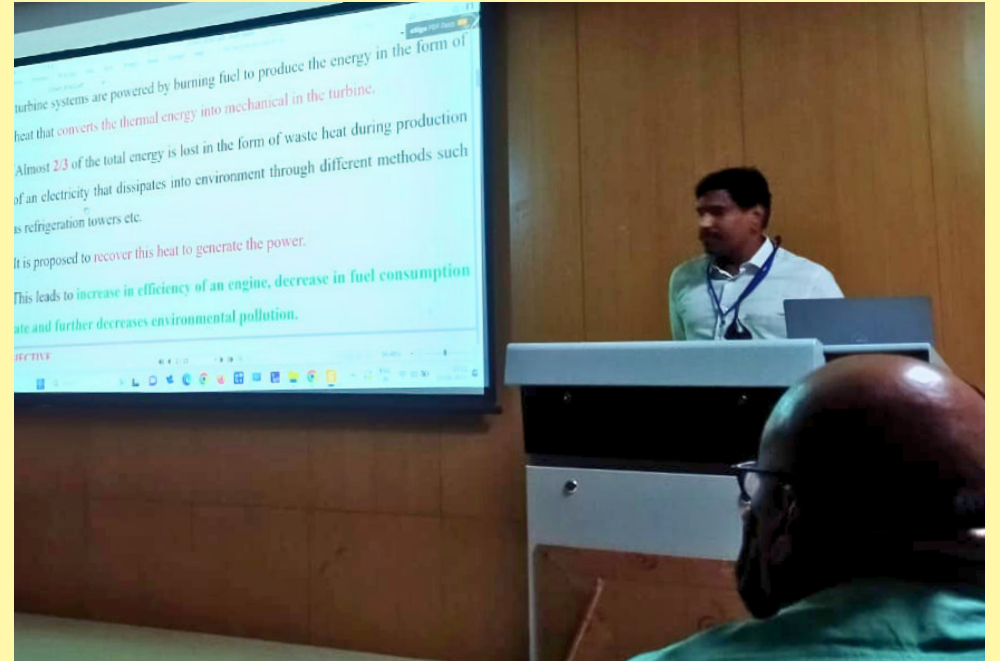
Mr. K. Vishnu Vardhan (*IV/IV B.Tech.*)

CONFERENCE PRESENTATIONS



Dr. G. Sai Kumar, Assistant professor of ME KITSW attend and presented paper at “**American society for Artificial Internal Organs (ASAIO)**” Conference held at University of Pittsburgh, San-Francisco, United States.

Conference Paper Presentations by Faculty and Students of Mechanical Engineering Students in “1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)” from 23 to 25 June 2023 at NIT Warangal



- Dr. K. Sridhar, Professor of ME and Dr. G. Ganesh Kumar, Associate Professor of ME presenting during International Conference at NIT Warangal.

FACULTY DEVELOPMENT PROGRAM - WORKSHOPS AND INDUSTRIAL VISITS



- Dr. K. Raja Narendar Reddy, Professor & HOD of Mechanical Engineering attended Industrial Training at **L&T EduTech, Chennai** from 29th May to 03rd June, 2023



- Dr.P.S.S Murthy, Assistant Professor of ME and Sri.K.Kishor Kumar, Assistant Professor of ME & Sri M. Madhukar, Computer Programmer of ME, KITSW attended AICTE-ATAL Idea Lab Advanced Faculty Development Program on “**Smart Manufacturing**” (Hands on Training) from June 5-10, 2023 at “**Visvesvaraya Technological University Centre for Post Graduate Studies Muddenahalli, Bengaluru**”

PAPER PUBLICATIONS BY FACULTY & STUDENTS

- A. Bhanu Teja, K. Jayanth, Md. Younus Ansari And G. Rohith “**Fatigue Properties Of Aluminium Alloy Nano Surface Composites By Friction Stir Processing**”
- M. Anil Kumar*,Ch. Karunakar*,B. Srinija, B. Yodhika,M. Anvesh, A. Alekhya “**Characterization Of Mechanical And Tribological Properties Of Sisal Cellulose Reinforced Composite Under Different Liquid Conditions**”.
- P. Phanindrasharma, D. Sammaiah, B. Sagar, B. Rohith, K. Praveen “**Effects Of Water And Kerosene On The Weight Gain And Impact Strength Of FRP Composite: Plant-Based Jute**”
- V. Rajesh , U. Usha, Y. Navya, V. Koushik, T. Ganapathi, Shiva Sai Reddy, “**Performance Evaluation Of Inclined Type Solar Drier For Drying Of Fruits And Vegetables**”
- S. Chandramouli, B. Dileep, G. Siddhartha, M. Sidhu, G. Harshith “**Experimental Investigation And Optimization Of Wear Characteristics Of Aluminum Metal Matrix Composites.**”
- Dr. K. Raja Narendra Reddy, V. Srikanth, R. Barath Chandra, J. Naveen, D. Sudesh Pavan, Md. Meer Tawfiq Zubair, “**Mechanical Characterization Of Randomly Oriented Water Hyacinth (Eichhornia Crassipes) Fiber Reinforced With Natural Matrix Material**”
- A. Vishwas Reddy, A. Hari Kumar, M. Himanshuka, D. Tharun , K. Manideep “**Manufacturing System Design For Producing Metallic Foam**”
- K.Suchith, P.Divya, K.Rakesh, R.Shivakumar, S.Abhinavkumar “**Evaluation Of Mechanical Properties Of Basalt Fiber Reinforced Composites**”
- D.Veera Badrinath, P.Anil Kumar,K.Yuvaraj, S.Prem Sai & K.Hemanth “**FEA And Structural Analysis On Aircraft Wing By Using AnSys And CFD**”
- G. Koushik, Ch. Srikanth, K. Laxmi Prasanna, Md. Nawaz, B. Ravi Kumar. “**Evaluation Of Plastic Canister By Using Non-Destructive Method:Ultrasonic Testing**”
- Potlacheru Manohar, Srinu Gugulothu, M.Uday Kiran, Naveen Burra, Yashwanth Kunamalla “**Evaluation Of Machining Performance In Vegetable Oil-Based Hybrid Nanofluid Mql Machining.**”
- E.Ramesh, Ch.Akanksha, V.Poorna Chander, N.Amrutha, P.Vaishnavi “**Combined Experimental And Numerical Investigation Of Flow And Heat Transfer In Mini/Microchannels**”
- V.Vivek, K.Abhiram,V.Pradeep, K.Indumathi, P.Shivateja “**Investigation Of Micro Structure And Mechanical Properties Of Zinc Metal Matrix Composites Using Friction Stir Processing**”
- P.Sreedhar, Md. Sadiqali, K.Ranjith, V. Saikrishna, Tharunkumar “**Study On Characterization By Friction Stir Welding Of Aluminium Alloys 6061 And 5083**”
- Medari Preethi, Bhukya Govardhan Sai, Parunandi Greeshma, Nidamanuri Venkata Bharath “**Experimental Study On Mechanical Properties Of Metal Matrix Composite Materials.**”
- K. Laxmi Prasanna, R. Sannihitha, P. Rohith , P. Avinash, “**Heat Transfer And Fluid Flow Analysis Of Solar Air Heater.**”
- S.Anil Kumar,L.Tejasri ,D.Shashank ,R.Srujan,V.Srivastava “**CFD Based Performance Analysis Of Solar Air Heater.**”
- B. Siddhartha, M. Chandu, D. Mahender, Md. Nazeer, Dr. Md. Sameer “**Experimental Investigations On Friction Stir Welded Aa7075 Aluminium Alloys Reinforced With Al₂O₃ And Graphite Nano-Particles.**”
- Faiza Fareeha Shaad Md Sai Trinath M Yogish “**Computational Study Of Heat Transfer Enhancement In Shell And Tube Heat Exchanger Using Cuo-Water Based Nano Fluids.**”
- T Manoj Dundi, K. Sridhar, S. Vidhi, T. Sai Krishna, O. Shailu “**CFD Analysis Of External Flow Vortex Shedding In Flow Over A Ribbed & Grooved Cylinder.**”
- Dr.E. Ramesh, G. Jaya Prakash, M. Premchand, Sk. Javeed, B. Sriram “**Characteristics Of Flow And Heat Transfer In Ducts With Continues And Broken V Shaped Ribs.**”
- D. Vikas, V. Manoj Reddy, G. Anil Kumar, S. Swarnalath, G. Ganesh Kumar “**Experimental Analysis Of Thermo-Electricgenerator Used In Ic Engine.**”
- Anitha. P , Y. Sindhu, K. Ruthvik, B. Swarupa And B. Sandeep “**Experimental Optimization Of Wear Behavior Of Metal Matrix Composites.**”
- V.Niketh Kumar, V. Srikanth, Dr. K. Raja Narendra Reddy, T. Ramu, A. Bhaviteja, D.Karthik, T. Preetham, Abdul Basith “**Evaluation Of Mechanical Properties By Panadanustectorious Short Fibres Reinforced With Natural Resin.**”
- Bashetti Mukul Dheeraj,Bogi Kavya Sree,Velpula Harsha Vardhan,Mekala Saathwik “**Investigation Of The Dielectric Properties Of Hybrid Natural Fiber And Conductive Filler Reinforced Polymer Composites.**”
- S.Sripathy, Dr.P.Ramesh Babu , Dr.Nayani Kishore Nath , Bhukya Sai Kiran “**Enhancing Mechanical Properties Of Glass Fiber-Reinforced Polymer Composite Material With The Addition Of Sio₂ And Multi-Walled Carbon Nanotubes.**”
- K. Sridhar, B. Srinivas Reddy, E. Ramesh, G. Ganesh Kumar, G. Srinivasa Rao, T. Manoj Kumar, “ **Exergoeconomic Analysis Of A Gas Turbine Cogeneration Power Plant**”.