



PULSE

DEPARTMENT OF MECHANICAL ENGINEERING

NEWSLETTER - MARCH 2022

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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

Mechanical Student Placements in March - 2022

JSW Steel Limited ~ CTC 8.0 Lakhs



Bhukya Vamshi Krishna

B18ME167



Neeraj

B18ME017



**AV Satya
Ramanuja Charyulu**

B18ME003



JVS Hitesh

B18ME007



**Enugala
Vamshidhar Reddy**

B18ME011



Gundeboina Sandeep

B18ME125



Mudike Karthik Yadav

B18ME072

Journals published by the Faculty in March - 2022

Sameer M.D., Reddy B.A., Kumar C.S., Saiteja N. and Dhanush J., "Development of Al₂O₃ Nano particulates AA6061-T6 Aluminium Alloy Functionally Graded Composites via Friction Stir Processing: Effect of Tool Pin Profile on Mechanical and Tribological Properties", *Recent Advances in Manufacturing Processes and Systems*, March 2022. https://doi.org/10.1007/978-981-16-7787-8_22

Om Prakash Minugu, Shakuntala Ojha, "Effect of Biomass-Biochar content on the erosion wear performance of Biochar epoxy composites", *Polymer Composites*, March 2022. DOI: 10.1002/pc.26610

Sameer M.D., Sai Kartheek Reddy B., Amrutha N., Srishma K. and Samantha K., "Selection of Optimal EDM Process Parameters for Machining Maraging Steel Using Grey-Fuzzy Relational analysis-An Experimental Approach", *Recent Advances in Manufacturing Processes and Systems*. https://doi.org/10.1007/978-981-16-7787-8_71.

V. Pradeep, Anil Kumar bodukuri, Madeeha zoufeen. "Mechanical Characterization of Composite Material Fabricated by Friction Stir Processing Technique", *Recent Advances in Manufacturing Processes and Systems*, March 2022

Papers Presented by the faculty in Conferences in March - 2022

PSS Murthy, "Influence of Privatization on Higher Education in India", *International Conference on Higher Education*, Kakatiya University, Warangal, 20-21 March 2022.

U. Shrinivas Balraj, "Impact of Cooperative Group Learning in Tutorials for Imparting Effective Problem-Solving, Team Work and Communication Skills", *International Conference on Higher Education*, Kakatiya University, Warangal, 21st March 2022.

Journals published by the Students in March - 2022

❖ Sameer M.D., Reddy B.A., Kumar C.S., Saiteja N. and Dhanush J., "Development of Al₂O₃ Nano particulates AA6061-T6 Aluminium Alloy Functionally Graded Composites via Friction Stir Processing: Effect of Tool Pin Profile on Mechanical and Tribological Properties", *Recent Advances in Manufacturing Processes and Systems*, March 2022. https://doi.org/10.1007/978-981-16-7787-8_22

❖ Sameer M.D., Sai Kartheek Reddy B., Amrutha N., Srishma K. and Samantha K., "Selection of Optimal EDM Process Parameters for Machining Maraging Steel Using Grey-Fuzzy Relational analysis-An Experimental Approach", *Recent Advances in Manufacturing Processes and Systems*. https://doi.org/10.1007/978-981-16-7787-8_71

❖ V. Pradeep, Anil Kumar Bodukuri, Madeeha Zoufeen. "Mechanical Characterization of composite material fabricated by friction stir processing technique", *Recent Advances in Manufacturing Processes and Systems*, March 2022

Industrial Visit

As a part of curriculum, the Mechanical Engineering students visited two industries i.e. Vasantha Tool Crafts Pvt Ltd., Balanagar, Hyderabad & Prathiraj Metal Masters Pvt. Ltd., IDA Charlapally, Hyderabad on 26-03-2022 (Saturday). The main objective of the industrial visit is to provide a technical exposure to the students about the manufacturing process and technology and provides functional opportunity in different sectors which help them to combine the theoretical knowledge with industrial knowledge. Industrial visits provide an excellent opportunity for the students to interact with industries and know more about industrial environment.



Industrial Tour to Prathiraj Metal Masters Pvt. Ltd & Vasantha Tool Crafts Pvt. Ltd start from KITSW



Students & Faculty with Sri A. Dayanand Reddy garu, Founder & Managing Director of Vasantha Tool Crafts Pvt. Ltd.,



Students & Faculty with Sri Ch. Sridhar Reddy garu Board Members & Director of Prathiraj Metal Masters Pvt. Ltd., IDA Charlapally, Hyderabad

Mechanical Engineering Students Association (MESA) Activities:



Expert talk on "CFD and its applications in Mechanical Engineering" by Dr. E. Ramesh, Asst. Professor of ME, organized by MESA on 08th March 2022.

Industry Connect Lecture Series



Expert talk on "Role of AutoCAD in moulding Industry" by Bollam Kalinga Rao, Mold-Tech Technologies, Hyderabad organized by MESA Students on 08th March 2022



A Technical event on "Automotive Quiz" organized by MESA on 22nd March 2022.

Group discussion on "Mechanical Engineering the Profession for Intelligent People" organized by MESA on 29th March 2022.

Training Programmes for students in March - 2022



A Short Term Training Programme on "AutoCAD" is organized by Sri V. Rakesh, Assistant Professor, ME to the registered students on every Thursday 4:45pm-6:45 pm

Webinars conducted during March - 2022

- A Webinar on SUPERCONDUCTING MAGLEVS conducted by HARI KRISHNA .A on 04.03.2022
- A Webinar on Inspiring Qualities of Dr. A.P.J Abdul Kalam conducted by R. Anish Sai 07.03.2022
- A Webinar on DHRUV AEROSPACE - PRIVATE SPACE INDUSTRY conducted by K. SAI TEJA 09.03.2022
- A Webinar on HOW FASTEST CARS ARE BEING BUILT - THE F1 conducted by SAKETI RAVI TEJA 11.03.2022
- A Webinar on Leadership lessons from Swami Vivekananda conducted by A Satya 14.03.2022
- A Webinar on HOW THE BOEING 787 PLANES ARE BUILD conducted by VAMSHI KRISHNA 18.03.2022
- A Webinar on First women IPS officer in india-Kiran Bedi conducted by T Raviteja 21.03.2022
- A Webinar on JSW STEEL REVOLUTIONIZING STEEL MAKING conducted by Mr Manichander 23.03.2022
- A Webinar on CRYOGENIC ENGINES conducted by RAVI TEJA THALLA 25.03.2022
- A Webinar on Success story of missile women of India-Tessi Thomas conducted by A Vishwas 28.03.2022
- A Webinar on RENEW POWER-ONE OF INDIA'S LARGEST CLEAN ENERGY COMPANIES' conducted by P. ROHITH 30.03.2022

Alumni Lecture Series



Sri S. Pradeep, Assist System Engineer, TCS, addressed students on "importance of Programming Languages for Mechanical Engineers" on 10th March 2022.

Industry Connect Lecture Series



Expert Lecture on FEM and CAE in Automobile Industry by Kiran Ambati, Technical Expert & CAE Expert, GeelyAuto/ Volvo, China

Newly Added Equipment in the Laboratories



procured and Installed Universal Strength machine, Sand rammer, permeability Tester, Weighing Balance Machine, TIG Welding, Sieve Shaker & Die with an expenditure of Rs. 4,65,280/- in Manufacturing Laboratory on 25 th March, 2022



procured and Installed Image analyzer with an expenditure of Rs. 4,67,280/- in Manufacturing Laboratory on 26th March, 2022

Parents Meeting



B. Tech. IV Semester Parents Meeting conducted on 28.03.2022 to update progress of ward and importance of rules and guidelines



B. Tech. VI Semester Parents Meeting conducted on 30.03.2022 to update progress of ward and importance of rules and guidelines



B. Tech. VIII Semester Parents Meeting conducted on 30.03.2022 to update progress of ward and importance of rules and guidelines