

# TECHNOLOGIA 2023

## INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MECHANICAL ENGINEERING AND NANOMATERIALS TECHNOLOGIA: ICRAMEN-2023

### Themes of the Conference

Sr No	Abbreviation	Themes	No of Papers
1	MN	Material Science and Nanomaterials	12
2	TF	Thermal Engg and Fluid Mechanics	14
3	SM	Solid Mechanics and Modelling	17
4	PM	Production Engg and Manufacturing Processes	9

### Technical Sessions

Date	Session	Themes Included	No of Papers
12-05-2023	Session I (Offline)	Open to All	52 (Total)
12-05-2023	Session II (Online)	Material Science and Nanomaterials + Production Engg and Manufacturing Processes	21
13-05-2023	Session III (Online)	Solid Mechanics and Modelling	17
13-05-2023	Session VI (Online)	Thermal Engg and Fluid Mechanics	14

### List of Registered Papers

Sr No	Paper Id	Authors	Title	Themes	No of Authors Registrations
1	2	Raghvendra Kumar Mishra	Fabrication and Characterization of Jute/Human Hair Reinforced Polyester Hybrid Composite	MN	1
2	10	Jaskaran Singh Phull and Harmandar Kaur	Investigation of the bulk and electronic properties of boron/nitrogen/indium doped armchair graphene nanoribbon for sensing plant VOC: A DFT study	MN	4
3	35	Rithik Bindal, Saurabh Shukla, Yatharth Singh Chandrool, Shreshth Rajput and Kapil Dev	High Entropy Alloy : Recent Research And Works	MN	5
4	43	Devendra Kumar Sahu, Amit Sarda, Robin Babu and Chandrashekhar Sahu	Assessing the Suitability of Different Materials for Manufacturing Connecting Rod: A Comparative Study	MN	1
5	48	Poonam Kumari, Anju Singh, Preeti Nandkumar and Abid Khan	Preparation and Characterization of Nanocomposite Thin Films of Cadmium Sulphide & Zinc Sulphide	MN	1
6	49	Suman Gajbhiye, Anju Singh, Preeti Nandkumar and Abid Khan	Green Synthesis and Characterisation of Zno Nanoparticles	MN	1
7	52	Mamta Sardare and Sandip Gharat	A Review on s Materials during Heap Formation	MN	1
8	59	Sandhya Minj, Anju Singh, Preeti Nandkumar and Abid Khan	A Review on Green Synthesis of Metal Oxide Nanoparticles by Leaf Extract for Biomedical Applications in Various Field	MN	1
9	71	M Ajay Satish Kumar, P Srinivasa Rao, Radheshyam H Gajghat and Amit Sarda	Effect of Rice Husk Ash on Mechanical and Microstructural Properties of Al-Cu-Si alloy Matrix Composites	MN	1
10	72	J Eswar, P Srinivasa Rao, Radheshyam H Gajghat and Praveen Chandrakar	Application of the multiple regression analysis for prediction of Tensile Strength of A518 alloy	MN	1

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11	73	Silva Sajin Jose, P Srinivasa Rao, Radheshyam H Gajghat and Chandrashekhar Sahu	Effect of Ferro Niobium (FeNb) Grain Refinement on Fluidity of Thin Cross Sections and Multi-Objective optimization of Sand Casting Process parameters of A206 Alloy	MN	1
12	74	Robin Jacob John, P Srinivasa Rao, Robin Babu and Sumit Kumar Shrivastava	Effects of Processing Parameters and Mould coating to Moulding Sand on the Microstructure and Fluidity of Sand-cast Al-5Mg alloy	MN	1
13	7	Ranjan Kr. Giri and Sunil H. Chaki	Thermal Investigation of Nanospheres and Nanowhiskers of CuInS <sub>2</sub>	TF	1
14	9	Abhishek Janghel, Shailendra Verma and Prashant Bawaney	A Review on Control of Hybrid AC/DC Microgrid Involving Energy Storage, Renewable Energy and Pulsed Loads	TF	1
15	11	Masaki Kitamura and Umemura Kazuo	Structural change of papain molecules with temperature change studied by atomic force microscopy in fluid	TF	1
16	17	Niravbhai Prajapati, Jitendra Chahan and Kamlesh Kothari	Comparison of Conventional And Vibration Assisted Fluidized Bed Dryer For Drying High Moisture Sub Bituminous Coal Used In Thermal Power Plant	TF	2
17	24	Dr. Vivek Sharma, Dr. Gurpreet Singh and Mansi Chaudhary	Characterization and development of MR fluids having high yield stress	TF	2
18	30	Aman Lahre, Snehlata Kanwar, Merkhapunp Bara, Manisha Usendi and Chandra Prakash Dewangan	Comparative Analysis of Heat Transfer of Engine Fins with different Materials in Steady State Condition	TF	4
19	32	Devraj Banjare, Jyotish Verma, Rohan Chouhan, Richa Dewangan, Govind Sahu and Chandra Prakash Dewangan	Analysis of Thermal Performance of Polylactic Acid Nanocomposite by Using T-History Method	TF	5
20	39	Ayushi Mishra, Dheeraj Kumar Dhaked and Shruti Bhadviya	Analysis of Fuel Cell Integrated topologies of High Gain Cuk Converter	TF	1
21	45	Abhimanyu Patwa, Soham Hudnurkar, Ujwala Kshirsagar, Sankit Ramkrishna Kassa and Chandrakant Sonawane	Numerical Simulation of Conjugate Heat Transfer in Microchannel heat exchangers to be Used for electronic circuit cooling Application	TF	1
22	47	Nidhi Shukla and Dr. G.L. Devnani	Activation Energy Analysis of Thermal Degradation of Bamboo Fiber as a Reinforcing Material in Bio-Composites	TF	1
23	58	Kunal Jadhav, Dr. Manoj Kumbhalkar and Kunal Jadhav	Blood Flow Analysis in Coronary Arteries Case Study	TF	1
24	62	Shivendra Panigrahi, Deepak Chaudhary, Richa Sahu and Akash Dewangan	Solar Energy: A Sustainable Solution for a Brighter Future	TF	1
25	64	N Jagannadham, B.K Rath and D.K Dash	Study on Transverse Velocity of Incompressible Dusty Fluid in Electric Field	TF	1
26	69	Upendra Nath, Vidhi Narayan Krishna Pandey, Syed Wajid Ali, Darshan Srivastav and Km Vidyawati Na	Smart Irrigation Pump	TF	1
27	6	Akhila Rupesh	Multi-Hole Probe for Subsonic Wind Tunnel Calibration: A Review	SM	1
28	18	Mehulkumar Prajapati, Jitendra Chahan and Smit Patel	Design & Development of Pre-Shape Guidewire Technology for Transcatheter Aortic Valve Implantation	SM	2
29	20	Susmita Solanki, Nilesh Ghetiya and Shreeraj Modi	Redesigning and topology optimization of the fixed platen for the injection molding machine	SM	1
30	27	Mr. Rajat Panchal, Mr. Abhinaya Srinivas Bhasuru and Dr. Kishan Fuse	Methodology for Wall Thickness Validation with Stress Analysis of Clo <sub>2</sub> Generator Piping System	SM	1

Sr No	Paper Id	Authors	Title	Themes	No of Authors Registrations
31	28	Parmananda Sharma and Piyush Kumar	Optimum slat and flap configuration for maximizing lift on NACA-4412 airfoil at various angle of attack, using XFOIL at a Reynolds number of 1 million.	SM	2
32	40	Robin Babu, Amit Sarda, Radheshyam H. Gajghat and P Srinivasa Rao	Design Optimization of Adaptive MacPherson Strut using ANSYS Simulation: A Study	SM	1
33	44	Avadhoot Rajurkar, Kunal Dangra, Aryan Deshpande, Madhav Gosavi, Tejas Phadtare and Gajanan Gambhire	Static Structural Analysis on Robot Chassis for Structural Steel and Aluminium Alloy Materials	SM	4
34	50	Rupesh Kumar Singh, Amit Sarda, Praveen Chandrakar and Sumit Kumar Shrivastava	A Comprehensive Study of Efficient Design of Pressure Vessels for Improved Boiler Performance	SM	1
35	51	Rishabh Tamrakar, Amit Sarda, Sumit Kumar Shrivastava and Praveen Chandrakar	A Study of Finite Element Analysis and Topology Optimization of Upper Arm of Double Wishbone Suspension	SM	1
36	53	Mahesh Shende, Abhay Khalatkar and Rupesh Shelke	Design & Optimization of Garbage Picker Machine with Future Scope of ML for efficient Garbage Detection.	SM	1
37	54	Mrinal Sorte	Finite Element Analysis of paddle sludge dryer to check its structural integrity under different loading condition's	SM	1
38	56	Shrikant Khopade and Dr. Manoj Kumbhalkar	Design and Optimization of The Bracket Connected with Actuator and Valve	SM	1
39	57	Bhupesh Sonkar, Amit Sarda, Robin Babu and P Srinivasa Rao	Enhancing the Performance of Turbine Blades through CAD-Based Design Optimization and Finite Element Analysis: A Comprehensive Review	SM	1
40	60	Justin Chacko Pulicktharayil, Amit Sarda, Radheshyam H. Gajghat and Chandra Shekhar Sahu	A study for Optimization of Helical Gear Performance for Improved Energy Efficiency.	SM	1
41	61	Jawed Rafiq, Himanshu Singh, Harsh Pandey, Abhay Srivastava and Devansh Awasthi	Design and Fabrication of Multipurpose Agricultural Machine	SM	1
42	67	Vertika Gaur, Manikesh Kumar, Monu Kumar Maurya, Rajan Kumar and Darshan Srivastav	Sheet Metal Cutting and Bending by Pneumatic Actuator	SM	1
43	70	Anand Kumar Prajapati, Aditya Yadav, Abhishek Kumar Yadav, Amit Singh and Vishnu Pratap Singh	Smart Cart for Physically challenged person	SM	1
44	3	Ajinkya Edlabadkar and Dr. Sharad Chaudhari	Experimental Investigation for Minimization of Casting defects using Taguchi Method	PM	1
45	5	Dheeraj Kumar and Rajesh Kumar Porwal	Recent Advances in Machining of Composite Materials by Electrical Discharge Machine	PM	2
46	12	Shinji Koide and Kazuo Umemura	Direct observation of floating single silica particles using a 'tumbled' optical microscope	PM	1
47	14	Priyanka Rani and Jagatveer Sehrawat	A Review on Multiplicative Metric Spaces	PM	1
48	19	Varun Sancheti, Darsh Patel and Nilesh Ghetiya	Study the Effect of Fluxes on Weld Penetration during Activated TIG Welding of SS304	PM	1
49	25	Aditya T. Batule, Sejal Ramteke, Suraj Ingawale and Shraddha Admane	Microwave-Assisted Extraction of Betulinic Acid from Syzygium Cumini L (Jamun Leaves) and Kinetic Modeling: Particle size, solid loading, and Agitation speed effects	PM	1
50	33	Bhanodaya Kiran Babu Nadikudi	Role and effect of friction stir welding tool pin profiles on tensile characteristics of dissimilar Al6061-Al2014 welded joints	PM	1

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51	36	Mohammad Shoaib Khan, Kartikey Singh, Kunal Pratap Singh, Pushkar Pratap Singh and Kapil Dev	friction stir welding in between similar and dissimilar metals :- Recent work and Research	PM	5
52	68	Sumit Kumar, Janardan Janardan, Gaurav Kumar Shukla, Kamlakant Prasad, Khurshed Alam and Ved Prakash Pandey	Fabrication of Electric Foldable Scooter	PM	1