



ICRAMEN 2021



**RESEARCH ASSOCIATION OF MASTERS OF ENGINEERING
INTERNATIONAL CONFERENCE ON
RECENT ADVANCES IN MECHANICAL ENGINEERING AND NANOMATERIALS**

ICRAMEN-2021

16-17 OCTOBER 2021

PRESENTATION SCHEDULE

DAY – 1 (16th October 2021, 11.00 pm – 11.30 pm IST)

KEYNOTE SESSION

<i>Id</i>	<i>Speaker</i>	<i>Topic of Talk</i>	<i>ZOOM Link</i>
1	Dr. S. A. Khan Professor, Department of Mechanical Engineering, International Islamic University Malaysia, Kuala Lumpur, Malaysia	Recent Advances in Aerospace Engineering	Join Zoom Meeting https://us02web.zoom.us/j/87141480635?pwd=M0dTM1NzdjI3ckxXZFBtdnZRSiZ0Zz09 Meeting ID: 871 4148 0635 Passcode: 223009



DAY – 1 (16th October 2021, 12.00 pm – 01.30 pm IST)
Session 1 - Thermal Engineering and Fluid Science

Session Chair – Dr. Vivek Pandey

School of Mechanical, Chemical and Materials Engineering,
Adama Science and Technology University, Adama, Ethiopia

<i>Paper Id</i>	<i>Author(s)</i>	<i>Article title</i>	<i>ZOOM Link</i>
paper_18	Shyamal Chakrabarty, Uday Wankhede and Rupesh Shelke	Impact of Non-convective Zone and Lower Convective Zone Thickness on the Performance Characteristics of Salinity Gradient Solar Pond	Join Zoom Meeting https://us02web.zoom.us/j/87141480635?pwd=M0dTM1NzdjI3ckxXZFBtdnZRSiZOZz09 Meeting ID: 871 4148 0635 Passcode: 223009
paper_24	N. Golden Stepha and D. Kavin Jacob	Analysis on physical properties of micropolar nano fluid past a continuously moving permeable plate	
paper_27	Ujwal Sontakke and Santosh Jaju	Green Hydrogen Economy and Opportunities for India	
paper_31	Ritwik Bhattacharya and Pranab Samanta	Simulation-based Study of Graphene-water Nanofluid flow through Microchannel Heatsink	
paper_50	Sunil Gupta, Bb Arora and Akhilesh Arora	Economics-Based Payback and Life Cycle Cost Savings Assessment of Inverter Type Air Conditioners	

Session 1 Coordinator – Dr. R. Kishor and Nand Jee K.

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DAY – 1 (16th October 2021, 2.00 pm – 04.00 pm IST)

Session 2 - Material Science and Nanomaterials

Session Chair – Dr. Vivek Pandey

School of Mechanical, Chemical and Materials Engineering,
Adama Science and Technology University, Adama, Ethiopia

<i>Paper Id</i>	<i>Author(s)</i>	<i>Article title</i>	<i>ZOOM Link</i>
paper_12	Satadru Kashyap and Debanil Das	Study of effects of weathering on natural fiber composites	<p>Join Zoom Meeting https://us02web.zoom.us/j/87141480635?pwd=M0dTM1NzdjI3ckxXZFBtdnZRSiZ0Zz09 Meeting ID: 871 4148 0635 Passcode: 223009</p>
paper_28	Abhishek Singh and S.C Jayswal	Mechanical characterization of TiO ₂ nanoparticles based on glass fiber reinforced polymer composite	
paper_30	Sk Faruque Ahmed, Mohibul Khan and Nillohit Mukherjee	Enhancing electrical properties of carbon nanotubes thin films by silicon incorporation	
paper_33	Mukesh Thakur and Rohan Senanayake	Experimental Analysis using an Innovative Catalytic Converter coated with Nano-particles for Pollution Control from Automobiles	
paper_39	Mohd. Anas and Anurag Sharma	2-Dimensional inline system for peppermint oil extraction	
paper_45	Sourabh Shinde, Taukir Momin, Vispi Karkaria and Parshuram Karandikar	Investigation of substitute jar materials for Laboratory grade ball milling machine to process electrode materials for energy storage devices	
paper_47	Ujjwal Ks and Dr. Sharath Chandra N	A review of wear resistance materials used in power-screw mechanism for aerospace applications	
paper_48	Siva Chakra Avinash Bikkina	Analysis of Electromagnetic Reflection Loss for Mesh Structure with Al6061 MMC for Aerospace Applications	
paper_52	Srinu Budumuru	Electromagnetic shielding effectiveness for Al6061 metal matrix composite based mesh wire reinforced with Flyash for oblique incidence of EM wave	
paper_53	Sumit Kumar, Praveen Kumar and Rudra Pratap	Reliability Failure in Microelectronic Interconnects by Electric Current Induced Chemical Reaction	

Session 2 Coordinator – Dr. R. Kishor and Nand Jee K.

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DAY – 2 (17th October 2021, 11.00 am – 01.00 pm IST)

Session 3 - Design Engineering

Session Chair – Dr. Surajkumar Mukti,

Department of Mechanical Engineering,
National Institute of Technology (NIT), Raipur

<i>Paper Id</i>	<i>Author(s)</i>	<i>Article title</i>	<i>ZOOM Link</i>
paper_35	Neetirajsinh Chhasatia, Jitendra Chaudhari and Amit Patel	Ridge Gap Waveguide based band pass filter for Ku-band Application	Join Zoom Meeting https://us02web.zoom.us/j/87141480635?pwd=M0dTM1NzdjI3ckxXZFJtdnZRS1ZOZz09 Meeting ID: 871 4148 0635 Passcode: 223009
paper_36	Shrutika Dahake, Nilesh Awate and Rupesh Shelke	Design and Analysis of Release Mechanism Using Shape Memory Alloy for Spacecraft	
paper_37	Deepesh Makhija, Sanjay Jain, Madhusudan Achari and Kunal Ghosh	Aerodynamic analysis of aircraft model using indigenously developed wind tunnel facility	
paper_38	Dhairya Raval, Sanjay Jain, Madhusudan Achari and Kunal Ghosh	Design and analysis of smoke flow visualization apparatus for wind tunnel	
paper_40	Saurabh Kumar	Free vibration analysis on axially graded beam resting on variable Pasternak foundation	
paper_44	Nitin Sawarkar, K S Zakiuddin, Roshan Umate, Rajkumar Chagde	Application of Jaw Type Flexible Clutches in Human Powered Machines: A Literature Review	
paper_46	Surojit Biswas and Priyankar Datta	Finite Element Model for Free Vibration Analyses of FG-CNT Reinforced Composite Beams using Refined Shear Deformation Theories	
paper_51	Devismita Sanjay, Neeraj Kumar and Souptick Chanda	Stress-strain distribution in intact L4-L5 vertebrae under the influence of physiological movements: A finite element (FE) investigation	
paper_54	Prakash Kumar Sen and Mahesh Bhiwapurkar	Numerical Simulation and Parametric Analysis of Fatigue Crack in UIC60 Rail Thermite Welded Joint	

Session 3 Coordinator – Dr. Radheshyam H. Gajghat

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DAY – 2 (17th October 2021, 2.00 pm – 04.00 pm IST)

Session 4 - Production and Industrial Engineering

Session Chair – Dr. Surajkumar Mukti

Department of Mechanical Engineering,
National Institute of Technology (NIT), Raipur

<i>Paper Id</i>	<i>Author(s)</i>	<i>Article title</i>	<i>ZOOM Link</i>
paper_4	Umesh Kumar Vates, Nand Jee Kanu, Eva Gupta, Gyanendra Kumar Singh, Naveen Anand Daniel and Bhupendra Prakash Sharma	Optimisation Of FDM 3d Printing Process Parameters on ABS Based Bone Hammer Using RSM Technique	Join Zoom Meeting https://us02web.zoom.us/j/87141480635?pwd=M0dTM1NzdjI3ckxXZFBtdnZRSiZOZz09 Meeting ID: 871 4148 0635 Passcode: 223009
paper_16	Vijay Kalbande, Chandrahas Handa, Radheshyam Gajghat and Shitalkumar Rawandale	Development of Online Platform for Checking Placement Capability of Engineering Students	
paper_23	Vijay Kalbande, Dr Nitin Manadavgade, Radheshyam Gajghat and Shitalkumar Rawandale	New Approach to Identify Industry Institute Skill Gap of Engineering Students	
paper_25	Avez Shaikh, Ajinkya Shinde, Satish Chinchanikar, Guruprasad Zagade and Sonia Pardeshi	Comparative evaluation of machining performance during hard turning under dry and minimum quantity lubrication	
paper_34	Rohit Sharma and Ubaid Ahmad Khan	Applying analytical hierarchy process for addressing the agile manufacturing drivers	
paper_49	Tanmay Pati, Shruti Kabra and Utkarsh Chadha	Statistical Quality Study of the Parts Produced in an Automobile Industry: A Daimler India Case Study	

Session 4 Coordinator – Dr. Manoj A. Kumbhalkar

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Among all the presented papers in the sessions, two best papers will be selected.