



INTERNATIONAL CONFERENCE ON  
RECENT ADVANCES IN MECHANICAL ENGINEERING AND NANOMATERIALS  
**TECHNOLOGIA: ICRAMEN 2024**



16-17 MARCH 2024

Organized by



**CHRISTIAN**  
COLLEGE *of* ENGINEERING  
& T E C H N O L O G Y

In Association with



**RESEARCH ASSOCIATION OF MASTERS OF ENGINEERING**

**PRESENTATION SCHEDULE**

**DAY – 1 (16<sup>th</sup> March 2024, 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         | <b>Dr. S. A. Khan</b><br>Professor, Department of Mechanical Engineering, International Islamic University Malaysia, Kuala Lumpur, Malaysia | Numerical And Experimental Study of Passive Control in The Form of Ribs at Sonic and Supersonic Mach Numbers | <a href="https://zoom.us/j/99281266390?pwd=SIBIYzNJem14eWNFS25XQmtaV0Z3Zz09">https://zoom.us/j/99281266390?pwd=SIBIYzNJem14eWNFS25XQmtaV0Z3Zz09</a><br>Meeting ID: 992 8126 6390<br>Passcode: 160324 |



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**16-17 MARCH 2024**

**DAY – 1 (16<sup>th</sup> October 2024, 12.00 pm – 02.30 pm IST)**

**Session 1 – Mechanical Engineering**

**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>   |
|-----------------|---|--|--|
| 5               | Ajinkya Edlabadkar, Dr. Sharad S.Chaudhari  | Empirical Exploration of Optimal Gating System Design for Sand Casting Process   | <a href="https://zoom.us/j/99281266390?pwd=SIBIYZNJem14eWNFS25XQmtaV0Z3Zz09">https://zoom.us/j/99281266390?pwd=SIBIYZNJem14eWNFS25XQmtaV0Z3Zz09</a><br><br>Meeting ID: 992 8126 6390<br>Passcode: 160324 |
| 7               | Ajinkya Edlabadkar, Dr. Sharad S.Chaudhari  | Rolling Process Analysis of Working Rollers of Cold Rolling Mill Based on ANSYS  |  |
| 11              | Rajeshwari Manoharan, Ragul S, Meganthan P  | Temperature Management System of Lithium - Ion Battery with Nanofluid using Hexagon Structured Cooling Chamber                               |  |
| 14              | Bhanodaya Kiran Babu Nadikudi   | Mechanical behaviour of Glass and Carbon fiber reinforced composites   |  |
| 15              | Virendra Rajput, Rohit Soni, Dinesh Singh Yadav, Alok Agrawal, Mohammed Irfan Khan  | Ranking of Epoxy/Kota stone Dust/Fly ash composite using integrated AHP-TOPSIS approach  |  |
| 16              | Aparna Chavan, Mugdha Kshirsagar  | A Bibliometric Analysis of Soil Stabilization Using Fiber  |  |
| 19              | Ganesh H. Kawade, Dr. Atul V. Karnjkar, Dr. Kiran C. More   | Waste Plastic Oil as a Source of Fuel for Diesel Engine: A Review  |  |
| 20              | Madhusudhana Reddy H, Bhanodaya Kiran Babu Nadikudi, A. Balaraju  | Study on Mechanical properties of hybrid fiber reinforced composites   |  |
| 27              | Zerouki Marzak, Mohammed Hamour, Ould Ouali Mohand  | Effect of orthotropy on the formability of a steel sheet   |  |
| 42              | Amol Patil, Sarje Suhas   | Development of 4D Printed Shape Memory Insoles to Lower Plantar Pressure in Diabetic Foot Ulcer Patients                                     |  |
| 46              | Aboli Halwe-Pandharikar, Madhuri Chatur-Deokar, Samir J. Deshmukh, Manoj A. Kumbhalkar, Rashi A. Yadav, Sarthak A. Shinde, Anil Maheshwari, Hardik C. Makwana | Evaluation of Performance in a Distinct Biodiesel Production System Through Computational Fluid Dynamics Analysis of Hydrodynamic Cavitation |  |
| 47              | Rashi Yadav-Gaikwad   | Evaluating Parameters for Supplier Assessment and the Benefits of Supplier Procurement   |  |



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**PRESENTATION SCHEDULE**

**DAY – 2 (17<sup>th</sup> March 2024, 10.15 pm – 10.45 pm IST)**

**KEYNOTE SESSION**

| <i>Id</i> | <i>Speaker</i>  | <i>Topic of Talk</i>                                     | <i>ZOOM Link</i>   |
|-----------|---|--|--|
| 1         | <b>Dr. M. A. Kumbhalkar</b><br>Department of Mechanical<br>Engineering, JSPM Narhe Technical<br>Campus, Pune, India | Failure Analysis of Suspension Spring of Railway Vehicle | <a href="https://zoom.us/j/99281266390?pwd=SIBIYzNJem14eWNFS25XQmtaV0Z3Zz09">https://zoom.us/j/99281266390?pwd=SIBIYzNJem14eWNFS25XQmtaV0Z3Zz09</a><br><br>Meeting ID: 992 8126 6390<br>Passcode: 160324 |



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**16-17 MARCH 2024**

**DAY – 2 (17<sup>th</sup> March 2024, 11.00 am – 01.00 pm IST)**

**Session 2 - Allied Engineering**

**Session Chair – Dr. D. B. Jani,**

Associate Professor, Mechanical Engg. Dept.  
Government Engineering College, Dahod, India

| <i>Paper Id</i> | <i>Author(s)</i>   | <i>Article title</i>   | <i>ZOOM Link</i>   |
|-----------------|--|--|--|
| 3               | Kranthi ALLURI, Gopikrishnan S   | Enhancing IoT Security: A Systematic Review of Multi-Factor Authentication Protocols and their Effectiveness | <a href="https://zoom.us/j/99281266390?pwd=SIBIYzNJem14eWNFS25XQmtaV0Z3Zz09">https://zoom.us/j/99281266390?pwd=SIBIYzNJem14eWNFS25XQmtaV0Z3Zz09</a><br><br>Meeting ID: 992 8126 6390<br>Passcode: 160324 |
| 17              | Marie Paulette ADON  | Checklist of algae and their different applications  |  |
| 25              | Upendra Falak, Sarvesh Patil, Atharva Bhoite, Divisha Gupta  | Empowering Diversity in Organizational Dynamics: A Decision Support System for Enhanced Hiring Practices     |  |
| 26              | Arpita Ghosh, Saptarshi Chakraborty  | Logic Circuit Implementation with FinFET: A study  |  |
| 28              | Buduru Dharani Kumar Reddy, Boddu Sandeep, Dr. E. Srividhya  | Effective Detectable Approval Quest Framework for Secure Distributed storage                                 |  |
| 43              | Viren Khanna, Deepak Sharma, Omkar Chugh, Devraj Kalyani   | Sign Hand Gesture Recognition Using Machine Learning   |  |
| 44              | Mahek Hotchandani, Chandni Jaisinghani, Rishita Khatri   | Multiple Disease Prediction System Using Different Machine Learning Models                                   |  |
| 48              | Bhavika Mistry, Nikhil Nasale  | Health monitoring system of railway wheel using Artificial Intelligence                                      |  |
| 50              | Aditya Kaldate   | Finite Element Analysis of Airless Tyre with different grid structure  |  |
| 51              | Sarang Medhi   | Finite Element Analysis for Wear Failure of Railway Wheel  |  |
| 52              | Akshay Bokde, Jinita Telmasre, Riza Khan, Rugweda Khiratkar, Yash Rathi, Dr. Jagdish Kene          | Deep Learning for Mine Safety: Real-Time PPE Detection with YOLOv5   |  |
| 53              | Madhuri Chatur-Deokar, Aboli Halwe-Pandharikar, Rashi P Gaikwad, Manoj Kumbhalkar, Utkarsh Konarde | Car Sales Detector by Using Artificial Intelligence and Machine Learning                                     |  |
| 55              | Sandip Hanakare  | Dynamic Analysis of bump foil bearing  |  |



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