#### **Instructions for Presentations**

- All oral presentations must be made in English.
- Lasting 10 minutes, plus 2 minutes for Q&A.
- The PowerPoint of the oral presentation must be written in English.
- For details on how to present by Microsoft Team, please visit:

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Day 2: 17/12/2022 Saturday Time: 10:30 AM - 11:45 AM

**Session 2** 

**Theme: Manufacturing** 

Session Chair: Dr. Rakesh Chaudhari, PDEU

Sl.	Paper Title	Presenter	College/ University
No.			
1.	Optimization of 3D Printing Process	Keval Bhavsar	Aditya Silver Oak
	Parameters using Design of Experiments for		Institute of
	ABS Material		Technology
2.	Research Prospects of Friction Stir Additive	Shuja Ahmed	Ahmedabad University
	Manufacturing	Shuja Ahmed	
3.	Experimental and Numerical Analysis of	Atharv Bhangale	Indian Institute of
	TiAlN Coated Tool for Varying Cutting Speeds		Technology Bhilai,
	Using DEFORM-3D		Raipur
4.	Recent Advancements in the Fabrication of		PDEU
	Multi-Material Structures by Additive	Jay Vora	
	Manufacturing		
5.	An Integrated MADM approach for Welding	Ravindra S. Saluja	K. K. Birla Goa
	Process Selection		Campus, BITS Pilani,
6.	Synthesis and Characterization of Fiber Based	Salot M	Indus University
	Composites Made from Naturally Available		
	Reinforcement		

Day 2: 17/12/2022 Saturday Time: 11:45 AM - 1:00 PM

**Session 3** 

Theme: Infrastructure Planning and Design Session Chair: Dr. Saurabh Yadav, IITRAM

Sl. No.	Paper Title	Presenter	College/ University
	Design, Investigation and Modification	Ronak D. Gandhi	Navrachana
1.	of Triple Step Helical Transmission		University, Vadodara
	Casing Utilizing Numerical Techniques		
	Anticipating Several Materials		
	Kinematic Study of Modified Jansen	Keval Bhavsar	Aditya Silver Oak
2.	Linkage for Development of a Hexapod		Institute of Technology
	Robot		
	Identification of Faults in Ball Bearing	Keval Bhavsar	Aditya Silver Oak
3.	using Maximum Overlap Discrete		Institute of
	Wavelet Transform and Mutual		Technology
	Information		
4.	Design of the Tie Bar for the 250 Tonne	Swapnil Vegad	Aditya Silver Oak
	Injection Moulding Machine		Institute of Technology
	Tolerance Stack-up Analysis of Toggle		Ahmedabad University
5.	Mechanism for Clamping Unit of an	Shuja Ahmed	
	Injection Moulding Machine		
6.	Kinematic Analysis of Planar	Amit Talli	KLE Technological
	Mechanisms by means of Computer-		University, Hubli
	Aided Design Software		

**Day 2: 17/12/2022 Saturday Time:** 2.00 PM – 3.15 PM

**Session 4** 

**Theme: Thermal** 

Session Chair: Dr. Uday Raj, IIT Bhilai

Sl. No.	Paper Title	Presenter	College/ University
1	Production of biogas and the associated		Pandit Deendayal
1.	factors: A guide for successful	Mahatma Patel	Petroleum University
	implementation of a biogas digester		
	Geometrical Optimization of Single	B. Kiran Naik	National Institute of
2.	Crystal Tungsten-Based-Magneto-		Technology Rourkela,
	Resistive Heat Switch for Applications		Rourkela
	at milli-Kelvin Temperatures		
	Performance Enhancement of an		Indian Institute of
3.	Adsorbed Natural Gas Storage System	Anupam Chaudhary	Technology (Indian
	Using Various Nanofluids: A Heat and	7 mapam Chadanary	School of Mines),
	Mass Transfer Approach		Dhanbad
4.	Review on Loop Heat Pipe: An	Saket Tripathi	IITRAM, Ahmedabad
	Effective Heat Dissipation Device		
	Optimal Design and Performance	Juluru Pavanu Sai	Vignan's Foundation
5.	Analysis of Shell and Tube Heat		for Science,
	Exchanger using HTRI Package		Technology
			&Research, Guntur
6.	Unified Higher Order Beam Theory for	Deepak Mahapatra	IGKV, Raipur
	Behavioral Study of FG beams		
	Thermal Performance Comparison of	Kamlesh Parmar	IITRAM, Ahmedabad
7.	Closed Loop Pulsating Heat Pipe with		
	DI Water and Al2O3/DI Nanofluid		

**Day 2: 17/12/2022 Saturday Time:** 3:45 PM – 5:00 PM

**Session 5** 

Theme: Manufacturing

Session Chair: Dr. Jay Vora, PDEU

Sl. No.	Paper Title	Presenter	College/ University
1	Utilization of CO2 as Refrigerant for	Dileep Kumar Gupta*	IITRAM
1.	Supermarket Application: An Energy		
	and Economic Assessment		
2.	Importance of High Strength Steels and	Hemenkumar H Thakar	Gujarat Technological
۷.	their Welding in Petrochemical		University,
	Industries		Chandkheda
3.	Ergonomic & Hygienic Footwear Rack	Dr. Siddheshwar	Walchand Institute of
3.	System for Use at Religious Places	Tuljapure	Technology, Ashok
	•		Chowk
4.	Adoption of Cyber-Physical Systems in	Vishal Ashok Wankhede	Pandit Deendayal
	Manufacturing Industries	VISITAL ASHOR WAIRFIEGE	Petroleum University
5.	Innovative Approach of mechanized	Jay Vora	Pandit Deendayal
3.	GMAW Procedure Qualification of X65		Energy University
	Grade S-Lay Offshore Sour Pipeline		
	Finite Element Simulation of Milling	Syamantak Bera	Indian Institute of
6.	Operation using Uncoated and Titanium		Technology Bhilai,
	Aluminium Nitride Coated Tools with		Raipur
	Different Coating Thicknesses		
	Performance Enhancement of Hole	Saurabh K Yadav	IITRAM
7.	Entry Textured Journal Bearing by		
	Using Genetic Algorithm		

Day 3: 18/12/2022 Sunday Time: 10.30 AM-11:45 PM

Session 6
Theme: Thermal

Session Chair: Dr Sumit Tripathi, IITRAM

Sl.	Paper Title	Presenter	College/ University
No.			
1.	Impingement of Supersonic Under-Expanded	Thanggoulen	National Institute of
	Jet on Flat	Hmangte	Technology, Manipur
	and Wedge-Shaped Deflector		
2.	A Review of Parametric Studies on Core- Annular Flow	Shreyaskar Gautam	IITRAM, Ahmedabad
3.	Performance Prediction of Hollow Fiber	B. Kiran Naik	National Institute of
	Membrane-Based Liquid Desiccant		Technology Rourkela,
	Dehumidifier Using PCA-Integrated OGM (1,		Rourkela
	N) and SVM Machine Learning Tools		
4.	Performance Analysis of an Ejector Based CO2	Vaishak S	Birla Institute of
	Transcritical Refrigeration System with		Technology and
	Integrated Mechanical Subcooling For Dairy		Science, 333031-
	Application		Pilani
5.	On the Hybrid Methods Used for Solving	Sanil Shah	IITRAM, Ahmedabad
	Inverse Heat Transfer Problems		,
6.	N	Rishabh Ranjan	Indian Institute of
	Numerical Investigations on Effect of Textured	J	Technology Bhilai,
	Tools on Heat Transfer during Machining		Raipur
7.	Improvement in CI engine	Nisarg Tiwari	IITRAM, Ahmedabad
	performance using blend of diesel-	9	,
	ionic liquid		
	iomo nquiu		

Day 3: 18/12/2022 Sunday Time: 11:45 PM-1.00 PM Session 7

**Theme: Manufacturing** 

Session Chair: Soni Kumari, GLA university

Sl. No.	Paper Title	Presenter	College/ University
1.	Machinability study of laser beam drilling on GFRP composites using Taguchi-based utility function approach	Rahul	IITRAM
2.	Design and Analysis of Aircraft Wing Aileron employing various composites to find the optimal material	Soni Kumari	GLA University, Mathura
3.	Experimental Analysis on Surface Roughness of Nano-graphene mixed Wire-Electrical Discharge Machining for Nitinol SMA	Jay Vora	Pandit Deendayal Energy University
4.	Challenges and Barriers of Rooftop Solar Adaption in Rural : A study from Rural Part of Gujarat India	Dileep Kumar Gupta*	IITRAM
5.	Estimation of energy transmission to workpiece during wire electrical discharge machining process	Parth Sathavara	IITRAM
6.	FINITE ELEMENT ANALYSIS OF PRESSURE VESSEL WITH DIFFERENT END CONNECTIONS	Kushagra Roy	IITRAM
7.	Machinability study of laser beam drilling on GFRP composites using Taguchi-based grey relational analysis	Rahul	IITRAM
8.	A Review on Fabrication of Inconel Alloys Using Different Additive Manufacturing Techniques	Kamlesh Joshi	IITRAM