

Instructions for Presentations

- All the oral presentations must be made in English.
- Lasting 10 minutes, plus 5 minutes for Q&A.
- The powerpoint of the oral presentation must be written in English.
- Keynote speech will start at 10 AM on Saturday and Sunday.
- Please join online presentation by 9.55 AM.
- For details of how to present by Google Meet, please visit:

https://support.google.com/meet/answer/9308856?co=GENIE.Platform%3DiOS&hl=en&oco=1

Online link:

https://meet.google.com/sdk-kcwx-kvv



August 6-8, 2021

Day 2: 07/08/2021 Saturday Time: 11.00 AM-12.30 PM

Session 1
Theme: Thermal

Session Chair: Dr. Sreedhar Babu Metikela; Co-chair: Dr. PL. RamKumar

Sl.	Paper Title	Presenter	College/ University
No.			
1.	Effect Of Combustible Fractions Of A	Sreedhar Babu	Jain College Of
	Sustainable Producer Gas Fuel On SI Engine	Metikela	Engineering Belagavi
	Combustion, Performance And Emission – An	(Guest Speaker)	
	Experimental Analysis		
2.	Performance analysis of desiccant material	Bhushan C. Behede	O. P. Jindal
	prepared by simple mixing of Silica-gel and		University, Raigarh
	Calcium Chloride		
3.	Flow And Thermal Characteristics Of Jet	Ashutosh Narayan	National Institute Of
	Impingement On A Dimple Plate Using Large	Singh	Technology Manipur
	Eddy Simulation		
4.	Numerical Investigation And Performance	Sanket Ishwar Benni	Jain College Of
	Comparison Of Double Tube Helical Heat		Engineering Belagavi
	Exchanger Incorporating Four Turn And Six		
	Turn Models Using Several Nanaofluids		
5.	Passive Cooling And Human Thermal	Neeraj Agrawal	Dr B A Technological
	Comfort: A Case Study		University Lonere
6.	Heat Transfer Correlation Development For	Anil Singh Yadav	Lakshmi Narain
	Solar Air Heater Duct Having Artificial		College Of
	Rougheness		Technology, Bhopal



August 6-8, 2021

Day 2: 07/08/2021 Saturday

Time: 12.30-1.30 PM Session 2

Theme: Design, Robotics and Controls

Session Chair: Dr. Ganesh Iyer; Co-Chair: Dr. Jagat Rath

Sl. No.	Paper Title	Presenter	College/ University
1.	Design of Bluetooth Controlled Floor	Unmesh Gornade	IITRAM, Ahmedabad
1.	Cleaning Robot		
2.	Detection of Sensor fault in a DC	Kalyana veluvolu	Kyungpook National
۷.	microgrid using Supertwisting Observer		University
3.	Computer vision guided Human-Robot	Jaimin pandya	Gujarat Technological
3.	collaboration for Industry 4.0: A Review		University
4.	Design and Fabrication of Mini	Dagam Lagidas	IITRAM
	Woodworking Lathe Machine	Param Jogidas	



August 6-8, 2021

Day 2: 07/08/2021 Saturday

Time: 2.30-4.15 PM Session 3

Theme: Planning Design and Controls

Session Chair: Dr. Gautam Choubey; Co-Chair: Dr. Kamlesh Joshi

Sl. No.	Paper Title	Presenter	College/ University
1.	Implementation Of Kaizen In Industries	Mudit Saxena	INDUS
1.	And Its Challenges		
	Review on How IIoT Has Revolutionized	Visheshgiri	Nirma University
2.	Greenhouse, Manufacturing and Medical	Goswami	
	Industries		
	Fracture Analysis of Crack Positioned	Srinivasu Chadaram	IITRAM
3.	perpendicular to the Poling direction in		
	Piezoelectric Material using XFEM		
	Experimental Investigation Of Solar	Dileep K Gupta	IITRAM
4.	Panel Integrated With Mirror Reflector		
	And Cooling		
		Smriti Sahay	Madan Mohan
5.	FE Analysis and Optimization of		Malviya University of
٥.	Excavator Bucket Teeth		Technology,
			Gorakhpur



Day 2: 07/08/2021 Saturday Time: 4.15-6.15 PM Session 4

Theme: Manufacturing

Session Chair: Dr. Rakesh Chaudhari; Co-Chair: Dr. Sumit Tripathi

Sl. No.	Paper Title	Presenter	College/ University
	Multi-response optimization and effect	Rakesh Chaudhari	Pandit Deendayal
1.	of alumina mixed with dielectric fluid	(Guest Speaker)	Petroleum
1.	on WEDM process of Ti6Al4V		University,
			Gandhinagar
2.	Friction stir welding for automotive and	Karn kavathia	Pandit Deendayal
۷.	electric vehicle	Karii Kavatilia	Energy University
		Rakesh chaudhari	Pandit Deendayal
3.	A review on cloud manufacturing		Petroleum
3.	technologies of Industry 4.0		University,
			Gandhinagar
	Effect of different tool electrodes (wire)	Jaykumar Vora	Pandit Deendayal
4.	of WEDM process of Inconel 718		Energy University,
	of WEDM process of filcoher /18		Gandhinagar
5.	Effect of Speed and Temperature on the	Vishwanath	S G Balekundri
٥.	Tribological Behaviour of ADI	Khadakbhavi	Institute of Technology
	Investigation on affect of rainforcing		Parul Institute of
6.	Investigation on effect of reinforcing	Sumit Das Lala	Engineering and
0.	fillers and matrix on polymer bio- composites – A Review	Sumit Das Laia	Technology, Parul
	composites – A Review		University, Vadodara,



August 6-8, 2021

Day 3: 08/08/2021 Sunday

Time: 11.00 AM-12.30 PM

Session 5

Theme: Infrastructure Planning and Design

Session Chair: Dr. Navneet Khanna; Co-Chair: Dr. Ajit Kumar

Sl. No.	Paper Title	Presenter	College/ University
	A Novel technique for the surface texture	Kiran MB	Pandit Deendayal
1.	inspection of Electrical Discharge		Energy University,
	Machined surfaces using vision system		Gandhinagar
2.	A review on key technologies of Industry	Jaykumar Vora	Pandit Deendayal
۷.	4.0 in manufacturing sectors	Jaykumai voia	Energy University
	Modification and Upgradation of Semi-		Institute Of
3.	Automated Hydraulic Extruder to	Rushabh Shah	Technology, Nirma
	Enhance Its Performance		University
	Design of Pitch Controlling System for	Mahmmadabararkhan	Knowledge Institute of
4.	two-wheel self-balancing vehicle based	Diwan	Technology and
7.	on Arduino		Engineering, Bakrol,
	on Ardunio		Anand, Gujarat
	Design and development of the	Pankaj Sahlot	Pandit Deendayal
5.	wheelchair components using the		Energy University,
	Topology Optimization method		Gandhinagar
	A Review on Improving the surface	Pankaj Sahlot	Pandit Deendayal
6.	characteristics of Aluminium Alloy via		Energy University,
	Friction Stir Processing		Gandhinagar



August 6-8, 2021

Day 3: 08/08/2021 Sunday

Time: 2.00 PM-3.45 PM

Session 6
Theme: Thermal

Session Chair: Dr. Dheeraj K Singh; Co-Chair: Dr. Dileep K Gupta

Sl. No.	Paper Title	Presenter	College/ University
1.	Strain Engineered Electronic and	Hardik Kagdada	IITRAM
	Thermoelectric Properties of Two Dimensional SnGe		
2.	Techno-Economic Assessment of IGCC Power	Pulkit kumar	IITRAM
	Plant Retrofitted with Chemical Looping		
	Combustion for Carbon Capture		
3.	Design and Development of a Novel Technique	M. B. Kiran	Pandit Deendayal
	for the Maintenance of a Gas Turbine–A Case		Energy University,
	Study		Gandhinagar
4.	An experimental study on performance	PRITAM DAS	National Institute of
	assessment of solar updraft tower (SUT) plant		Technology Warangal
	with guide vanes		
5.	The Effect Of Using Phase Change Material	Mulatu C. Gilago	National Institute of
	On The Performance Of Natural Convection		Technology Warangal
	Indirect Type Solar Dryer During Drying Ivy		
	Gourd		
6.	Effect Of Taper And Perforation On Heat	Ayush Kumar Rao	National Institute of
	Transfer Coefficient Of A Passive Horizontal		Technology, Manipur
	Heat Sink		
7.	Review of recent advances on Pulsating Heat	Kamlesh Parmar	IITRAM, Ahmedabad
	Pipes		



Day 3: 08/08/2021 Sunday

Time: 3.45-5.15 PM

Session 7

Theme: Manufacturing

Session Chair: Dr. Jaykumar Vora; Co-Chair: Dr. Pramod Bhingole

Sl. No.	Paper Title	Presenter	College/ University
	Experimental investigations and	Dr. Jaykumar Vora	Pandit Deendayal
1.	optimization of WEDM parameters	(Guest Speaker)	Energy University,
	using Taguchi analysis of pure titanium		Gandhinagar
	Multi-response optimization of alumina		Pandit Deendayal
2.	powder mixed WEDM process using	Rakesh Chaudhari	Energy University,
۷.	Taguchi-TOPSIS approach of Nitinol	Rakesii Cilaudilali	Gandhinagar
	SMA		
3.	Rail Welding Technology: Processes and Welding Quality		Pandit Deendayal
		Trushil A Patel	Energy University,
			Gandhinagar
	Evaluation of Mechanical and Thermal		CARE College of
4.	properties of Banana/Aramid/E-glass	D.R.Rajkumar	Engineering,
	Powder Hybrid Composite Plate		Tiruchirappalli
	Enhancing Productivity of a	Kiran MB	Pandit Deendayal
5.	Manufacturing Company Using Value		Energy University,
	Stream Mapping -A Case study		Gandhinagar
6.	Classical Lean Manufacturing Philosophy— A Review	Kiran MB	Pandit Deendayal
			Energy University,
			Gandhinagar



Day 3: 08/08/2021 Sunday

Time: 5.15 PM-6.30 PM

Session 8

Theme: Infrastructure Planning and Design

Session Chair: Dr. Mithilesh Dixit; Co-Chair: Dr. Saurabh Kumar Yadav

Sl.	Paper Title	Presenter	College/ University
No.			
1.	Optimization of Process Parameters Using	Aditya Nema	Pandit Deendayal
	Response Surface Methodology to Improve		Energy University
	Surface Finish in Face Gear Grinding		
2.		Rakesh Chaudhari	Pandit Deendayal
	Influence of machining parameters of Fiber		Petroleum
	laser cutting on Al6061-T6		University,
			Gandhinagar
3.		Rakesh chaudhari	Pandit Deendayal
	A review on machining aspects of Shape		Petroleum
	memory alloys		University,
			Gandhinagar
4.	2D Simulation to study the effect of flaps on	Vishal Kaushik	Nagpur University
	various Aerofoils at different angles		
5.	Investigation Of Thermophysical Properties Of	Sakshum Khanna	Pandit Deendayal
	Synthesized N-Hexacosane Encapsulated		Energy University,
	Titania Phase Change Material For Enhance		Gandhinagar
	Thermal Storage Application.		_