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on



Space Society of Mechanical Engineers  
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Futuristic Advancements in Materials, Manufacturing and Thermal Sciences  
(ICFAMMT 2022), January 20–22, 2022



Jointly organised by

Department of Mechanical & Aero-Space Engineering, IITRAM Ahmedabad, Gujarat, India  
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### Certificate of Presentation

Paper Title: Selection of advanced 3D printing technologies using analytical hierarchy process

Author(s) name: Rupshree Ozah and Manapuram Muralidhar

This is to certify that Dr./Mr./Ms. **Rupshree Ozah** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

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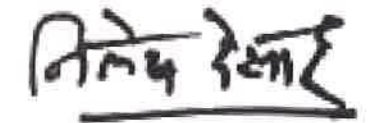
### Certificate of Presentation

**Paper Title: Application of Jaya algorithm for minimizing surface finish in MQL based green machining of Titanium alloy**

**Author(s) name: Dhrubajit Sarma, Muthumari Chandrasekaran and Ashok Kumar Sahoo**

This is to certify that Dr./Mr./Ms. **Dhrubajit Sarma** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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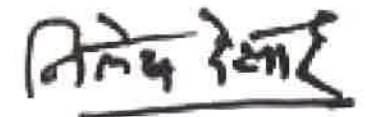
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**Paper Title: A comparative study of the surfaces formed by WEDM and WEDT configurations based on image processing**

**Author(s) name: Biplab Kumar Roy, Vishal Kumar and Amitava Mandal**

This is to certify that Dr./Mr./Ms. **Biplab Kumar Roy** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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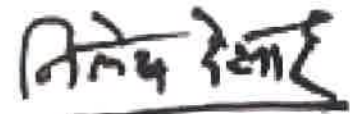
*Certificate of Presentation*

**Paper Title: Thermal modeling of wire arc additive manufacturing process using COMSOL multiphysics**

**Author(s) name: Vishal Kumar, Biplab Kumar Roy and Amitava Mandal**

This is to certify that Dr./Mr./Ms. **Vishal Kumar** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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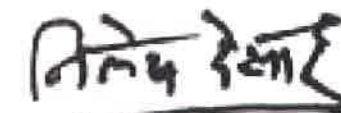
### Certificate of Presentation

Paper Title: Design optimization of waveguide power combiner using additive manufacturing

Author(s) name: Ashok Kumar, Ulkesh B. Desai and Arup Kumar Hait

This is to certify that Dr./Mr./Ms. **Ashok Kumar** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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**Paper Title: Tool Design for Friction Stir Welding Variants**

**Author(s) name: Namrata Thakkar and Vishvesh Badheka**

This is to certify that Dr./Mr./Ms. **Namrata Thakkar** has presented the above mentioned paper  
in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

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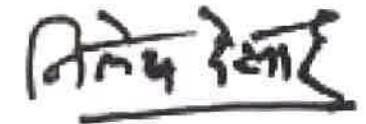
### *Certificate of Presentation*

**Paper Title: Laser arc hybrid welding processes: A review**

**Author(s) name: Ruchir Soni, Purvank Shah and Vishvesh Badheka**

This is to certify that Dr./Mr./Ms. **Ruchir Soni** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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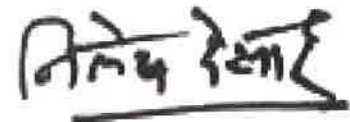
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**Paper Title: Effect of Welding on the Metallurgical, Mechanical, and Corrosion Properties of High Entropy Alloy\_ A Review**

**Author(s) name: Sourabh Shukla, Anshula Gaurkar and Tulika Bawankar**

This is to certify that Dr./Mr./Ms. **Sourabh Shukla** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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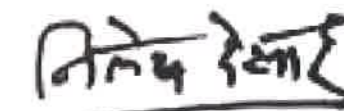
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**Paper Title: Cryogenic Behavior of TIG Welded Ni-based Superalloy (IN617)**

**Author(s) name: Paresh Mandal, Akash Kurian Lalu, Amal Michael Saji and Manu M Jacob**

This is to certify that Dr./Mr./Ms. **Paresh Mandal** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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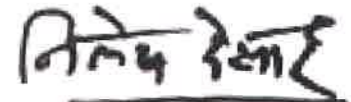
*Certificate of Presentation*

Paper Title: Ergonomics and industry 4.0- future perspectives

Author(s) name: Moti Lal Rinawa, Ravi Kumar Goyal, Jaidev Kumbhakar, Haris Arquam, Hitesh  
Sharma and Amit Kumar Sharma

This is to certify that Dr./Mr./Ms. **Moti Lal Rinawa** has presented the above mentioned paper in  
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**Paper Title: Effects of reaction product layer formation in the fabrication of tungsten microtools through  $\mu$ ECM process using KOH electrolyte**

**Author(s) name: Md. Zishanur Rahman, Alok Kumar Das, Somnath Chattopadhyaya and Md. Quamar Alam**

This is to certify that Dr./Mr./Ms. **Md. Zishanur Rahman** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

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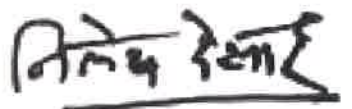
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Paper Title: Fabrication of GISAT black body hood using sheet metal forming and TIG welding

Author(s) name: Rajan Kumar Mishra, Jigish Patel and Devang Gajjar

This is to certify that Dr./Mr./Ms. **Rajan Kumar Mishra** has presented the above mentioned paper  
in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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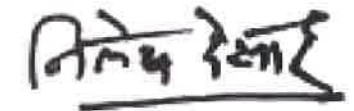
**Paper Title: Experimental design for SS 316L - Nanosecond laser texturing for bioengineering applications**

**Author(s) name: Neelesh Sirdeshmukh and Ganesh Dongre**

This is to certify that Dr./Mr./Ms. **Neelesh Sirdeshmukh** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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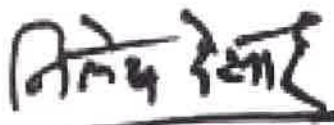
### *Certificate of Presentation*

**Paper Title: Recent trends in the amelioration and prediction of surface roughness in turning process: A bibliometric analysis**

**Author(s) name: Vikrant Guleria, Vivek Kumar and Pradeep Singh**

This is to certify that Dr./Mr./Ms. **Vikrant Guleria** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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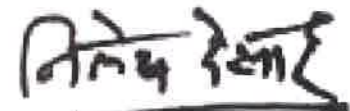
*Certificate of Presentation*

**Paper Title: Temperature analysis of water-cooled friction stir welding using spray nozzle on aluminium 2014 alloy**

**Author(s) name: Cibi Gabriel Goldwynsingh David Rajasingh, Mystica Augustine Michael Duke and Senthil Kumar Santhanam**

This is to certify that Dr./Mr./Ms. **Cibi Gabriel Goldwynsingh David** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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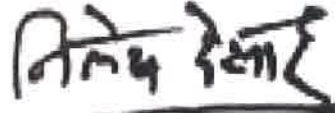
### Certificate of Presentation

**Paper Title: Development of complex feature extraction system from prismatic parts using hybrid algorithms**

**Author(s) name: Sridhar Meka, Sreeramulu Dowluru and Lingaraju Dumpala**

This is to certify that Dr./Mr./Ms. **Sridhar Meka** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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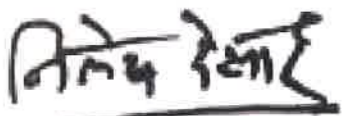
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**Paper Title: A review on the influence of tool pin profile on microstructure and mechanical properties of friction stir welded joints**

**Author(s) name: Yogendra Singh Rajpoot, Kushal Saxena and Desh Deepak**

This is to certify that Dr./Mr./Ms. **Yogendra Singh Rajpoot** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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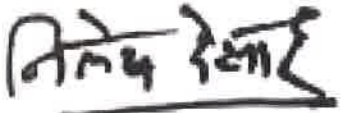
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**Paper Title: 3D printable gearbox casing**

**Author(s) name: T.N. Nikhil, Mayank Chutani, Gautam Mahesh and Lokavarapu Bhaskara Rao**

This is to certify that Dr./Mr./Ms. **T.N. Nikhil** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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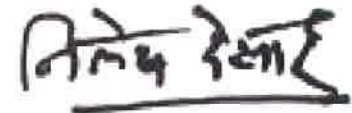
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**Paper Title: 3 - D printing: a review of manufacturing methods, materials, scope and challenges and applications**

**Author(s) name: Hiral Parikh, Rivaan Jadav and Praas Joshi**

This is to certify that Dr./Mr./Ms. **Hiral Parikh** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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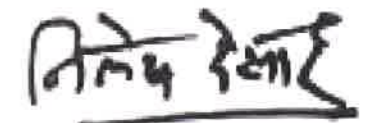
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**Paper Title: Experimental investigation the effect of number of passes on microstructure and microhardness  
on AA 6082 based surface composites processed using friction stir processing**

**Author(s) name: Viren Parikh**

This is to certify that Dr./Mr./Ms. **Viren Parikh** has presented the above mentioned paper in  
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**Paper Title: Effect of different machining and non-machining parameters on machining performance of electrochemical discharge machining (ECDM): A review**

**Author(s) name: Dheeraj Soni, B.D. Gidwani and R. Shringi**

This is to certify that Dr./Mr./Ms. **Dheeraj Soni** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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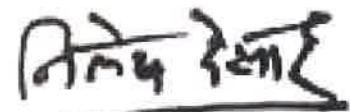
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**Paper Title: A review on metal additive manufacturing techniques**

**Author(s) name: Jayaprakash Sharma Panchagnula, Vishvesh Badheka, Naga Vamsi Krishna Jasti and Kishore Kumar Panchagnula**

This is to certify that Dr./Mr./Ms. **Jayaprakash Sharma Panchagnula** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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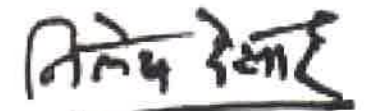
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**Paper Title: Amendment procedure in sintered bush manufacturing industry by the utility of six-sigma  
DMAIC : A case study**

**Author(s) name: Aryan Singh, Jai Prakash Bhamniya, Deepak Agrawal, Moti Lal Rinawa, Suyog Jhavar,  
Ashwini Sharma and Anurodh Godha**

This is to certify that Dr./Mr./Ms. **Aryan Singh** has presented the above mentioned paper in  
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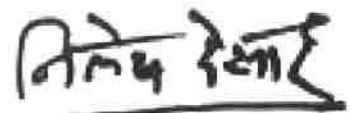
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**Paper Title: Surface roughness analysis in high speed turning of Ti-6Al-4V with coated carbide inserts using Vibration signals**

**Author(s) name: Grynal Dmello and Srinivasa Pai P**

This is to certify that Dr./Mr./Ms. **Grynal Dmello** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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**Paper Title: Cooling assisted Friction stir welding of Al6061 to SS304**

**Author(s) name: Harsh Soni, Meet Gor and Vishvesh J. Badheka**

This is to certify that Dr./Mr./Ms. **Harsh Soni** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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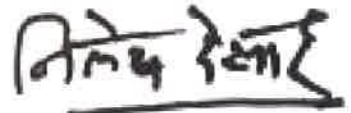
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**Paper Title: Microstructural and Mechanical Properties Characterization of Resistance Spot Welded Aluminium 6063 Alloy**

**Author(s) name: Parth Patel, Sumit K. Sharma, Anil K. Rajak, Chaitanya Sharma and Mukesh Chandra**

This is to certify that Dr./Mr./Ms. **Parth Patel** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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**Paper Title: Numerical analysis of conduction mode laser welding of Aluminium 2024 alloy in lap joint configuration**

**Author(s) name: Upama Dey, Aparna Duggirala, Bappa Acherjee and Souren Mitra**

This is to certify that Dr./Mr./Ms. **Upama Dey** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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**Paper Title: Laser Micro-Texturing of Silicon for Reduced Reflectivity**

**Author(s) name: Sangeeth Purushothaman, Shanmuka Srinivas M and Mamilla Ravi Sankar**

This is to certify that Dr./Mr./Ms. **Sangeeth Purushothaman** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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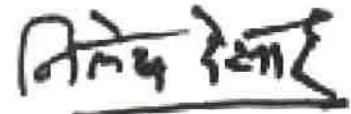
*Certificate of Presentation*

Paper Title: Green manufacturing: benefits, implementation and challenges

Author(s) name: Moti Lal Rinawa, Ankit Sharma, M. S Karuna Karuna and Amit Kumar Sharma

This is to certify that Dr./Mr./Ms. **Moti Lal Rinawa** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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**Paper Title: Influence of infill parameters on flexural properties of bio-inspired additively manufactured specimen**

**Author(s) name: Mahesh Naik, Abhilash M.C and D.G Thakur**

This is to certify that Dr./Mr./Ms. **Mahesh Naik** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

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**Paper Title: Implementation of ISO 9001 in manufacturing industry, A literature review**

**Author(s) name: Prashant Shende, Aditya Kadao and Adithyakrishna Palery**

This is to certify that Dr./Mr./Ms. **Prashant Shende** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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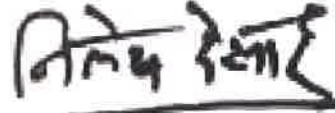
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**Paper Title: A review of lean six sigma to mitigate COVID-19 impact on Indian manufacturing sector**

**Author(s) name: Abhijeet Shahade and Udai Jha**

This is to certify that Dr./Mr./Ms. **Abhijeet Shahade** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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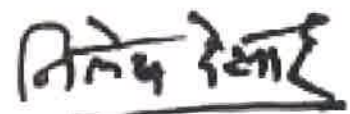
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**Paper Title: Experimental optimization of green FDM process parameters: An integrated MCDM approach**

**Author(s) name: Surajit Barad, Jagadish Jagadish, Sagar Yanda and Sathish Kumar Adapa**

This is to certify that Dr./Mr./Ms. **Surajit Barad** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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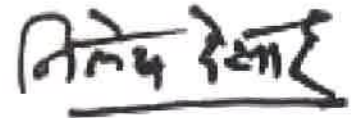
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**Paper Title: Development of high specific strength acrylonitrile styrene acrylate (ASA) structure using fused filament fabrication**

**Author(s) name: Rupam Rakshit, Paramasivan K, Subhash Chandra Panja, Sanjib Acharyya and Dipten Misra**

This is to certify that Dr./Mr./Ms. **Rupam Rakshit** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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**Paper Title: Effects of friction stir welding tool rotational speed on mechanical, wear, and microstructure properties of AA5083/Nano fly ash composites**

**Author(s) name: Shaik Ghouse Mohiddin and Sriram Venkatesh**

This is to certify that Dr./Mr./Ms. **Shaik Ghouse Mohiddin** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

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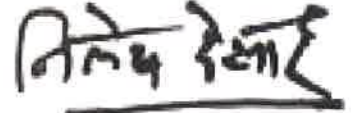
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**Paper Title: Optimization of AWJM process on processing of lite bamboo reinforced polymer composites by using grasshopper algorithm**

**Author(s) name: Sathish Kumar Adapa, Jagadish Jagadish, C J Rao, Sivasankara Raju R and Sagar Yanda**

This is to certify that Dr./Mr./Ms. **Sathish Kumar Adapa** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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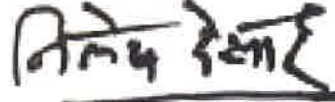
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**Paper Title:** Response surface methodology to establish friction model of upset forging

**Author(s) name:** Karnam Thulasiram Vamsi Krishna, Amrith G.S and Lokavarapu Bhaskara Rao

This is to certify that Dr./Mr./Ms. **Karnam Thulasiram Vamsi Krishna** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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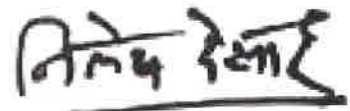
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**Paper Title: Electric mobility: key factors, unresolved issues and significance for foundry industries**

**Author(s) name: Himanshu Khandelwal and Sumeet Chavan**

This is to certify that Dr./Mr./Ms. **Himanshu Khandelwal** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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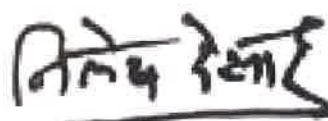
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**Paper Title: Recent Developments in Materials and Manufacturing in the Field of Pharmaceutical Sciences**

**Author(s) name: Geeta Kumari, Susheel Kumar, Krishna Murari Pandey and B. R. Ramesh Babu**

This is to certify that the above mentioned authors have participated in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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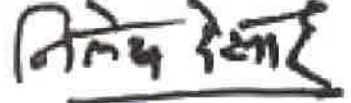
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**Paper Title: Comparative prediction of the influence of process parameters during CAEDM and REDM of hybrid metal matrix composite**

**Author(s) name: Paridhi Malhotra, R.K. Tyagi, Nishant Singh, Jimmy Mehta, Moti Lal Rinawa and Amit Kumar Sharma**

This is to certify that Dr./Mr./Ms. **Paridhi Malhotra** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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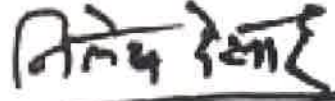
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**Paper Title: Analysis of tool wear in ultrasonic assisted turning of Nimonic-90 under dry and wet conditions**

**Author(s) name: Jay Airao, Chandrakant K Nirala and Navneet Khanna**

This is to certify that Dr./Mr./Ms. **Jay Airao** has presented the above mentioned paper in ICFAMMT-2022 held during 20<sup>th</sup> - 22<sup>nd</sup> January at IITRAM Ahmedabad, Gujarat, India.

  
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