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## 12<sup>th</sup> ICMPC E3S

S.NO	Paper ID	Author Name	Affiliation	Paper Title	Registered /UnRegistered
1	105	Oritonda Muribwathoho <sup>1</sup> , Velaphi Msomi <sup>1</sup> , Ali Merdji <sup>2</sup> , and Sipokazi Mabuwa <sup>1</sup>	Cape Peninsula University of Technology, Faculty of Engineering and the Built Environment, Mechanical Engineering Department, P.O. Box 1906, Bellville, 7535, South Africa	The effect of material position of multi- pass friction stir processing on friction stir welded AA1050/AA6082 dissimilar joints	Registered
2	109	Sunday A. Afolalu <sup>1</sup> , Omolayo M. Ikumapayi <sup>2*</sup> Samuel A. Ushe <sup>1</sup> , Samuel O. Ongbali <sup>1</sup> , Ademola Abdulkareem <sup>3</sup> , Moses E. Emeterere <sup>4</sup> and Olamma U. Iheanetu <sup>5</sup>	Department of Mechanical Engineering, Covenant University, Ota, 112233, Nigeria	The Role of Production Planning in Enhancing an Efficient Manufacturing System – An Overview	UnRegistered

3	115	Sunday A. Afolalu1, Omolayo M. Ikumapayi2* Remilekun E. Elewa1, Ademola Abdulkareem3, Moses E. Emetere4, Samuel O. Ongbali1, and Olamma U. Iheanetu5	Department of Mechanical Engineering, Covenant University, Ota, 112233, Nigeria	Impact of Problems Associated with Scheduling and Capacity Planning of a Production Process – An Overview	UnRegistered
4	124	Omolayo M. Ikumapayi1*, Sunday A. Afolalu2, Olawale S. Fatoba3, Rasaq A. Kazeem4, Adedotun A. Adetunla1, Samuel O. Ongbali2	Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, 360101, Nigeria	A Concise Study on Shearing Operation in Metal Forming	UnRegistered
5	127	SOLOMON TESFAW, OLAWALE SAMUEL FATOBA*; TESHOME MULATIE; ESTER TITILAYO AKINLABI	Department of Mechanical Engineering, Debre Tabor University, Debre Tabor, Ethiopia	Investigation of Compositional Effects of Virgin and Recycled HDPE on Mechanical Properties of Pipe Fitting	UnRegistered
6	129	Sambit Satpathy1 , Munesh Chandra Trivedi2, Chandra Shekhar Yadav3 and Prakash Mohan4	INoida Institute of Engineering & Technology, CS and ET, greater Noida, Uttar Pradesh, India	New characterization of electrode of supercapacitor with its application as a backup power supply	UnRegistered
7	135	Akesh Kumar G*, a, ,N.Prabavathya , Laxmidhar Biswala,	Centre for Innovation and Technology Excellence , Titan Company limited (Jewellery Division, Brand TANISHQ), Hosur, INDIA	Raman Photoluminescence - An Efficient way to distinguish Natural Diamonds and Lab Grown Diamonds	UnRegistered
8	139	B. SRINIVASA RAO	Department of Computer Science Engineering Gokaraju Rangaraju Institute of Engineering and Technology	A New Ensemble Learning based Optimal Prediction Model for Cardiovascular Diseases	Registered
9	145	Viet Nguyen Thanh,* , Ngan Tran Thi Kim , Tien Le Xuan 4, Quy Nguyen Ngoc	Institute of Environmental Sciences, Nguyen Tat Thanh University, Ho Chi Minh City, Vietnam	Evaluation Of Antioxidant Activity And Antimicrobial Activity Of Vietnamese Rosemary (Rosmarinus Officinalis L.) Essential Oils Extracted By Some Extraction Methods	UnRegistered
10	148	P. Mounika,* and S. Govinda Rao	MTech Student, Computer Science and Engineering, GRIET, Hyderabad, Telangana, India.	A Study On Deep Learning And Machine Learning Techniques On Detection Of Parkinson's Disease	Registered
11	150	Hong-Tham T. Nguyen Kim-Ngan T. Tran , Bich Thuy Tran,	Institute of Environmental Sciences, Nguyen Tat Thanh University, Ho Chi Minh City, Vietnam	Visible-light-driven photocatalytic degradation of Rhodamine B over Bimetallic Cu/Ti-MOFs	UnRegistered

		Trung Thanh Nguyen, Duy Trinh Nguyen			
12	151	O.S. FATOBA*; A.M. LASISI1; S.A. AKINLABI,B.A. TADESSE; E.A. MEKONEN; E.T. AKINLABI	Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg, South Africa.	Geometrical Evaluation and Microstructural Characteristics of Laser Additive Manufactured (LAM) Titanium Alloy Based Composite Coatings	UnRegistered
13	154	Xuan Duy Le, Phuong Thao Lai Phuong, Quoc Toan Tran *, Thi Ngoc Anh Hoang , Manh Cuong Nguyen , Kim-Ngan T. Tran , Thien Hien Tran	Institute of Natural Products Chemistry, Vietnam Academy of Science and Technology (VAST), Hanoi City, Vietnam	Essential oil of Glycosmis stenocarpa (Drake) leaves grown in Hai Duong province, Vietnam	UnRegistered
14	156	Elakkiyadasan R, Manoj Kumar P , Subramanian M * Balaji N , Karthick M and Kaliappan S	Assistant Professor, St.Joseph's College of Engineering, Chennai, Tamilnadu-600119, India	Optimization of Shell and Tube Condenser for Low Temperature Thermal Desalination Plant	UnRegistered
15	159	Sunday A. Afolalu, Omolayo M. Ikumapayi*, Osise Okwilagwe, Moses M. Emetero, Bernard A. Adaramola	Department of Mechanical Engineering, Covenant University, Ota, 112233, Nigeria	Evaluation of Effective Maintenance and Reliability Operation Management – A Review	UnRegistered
16	402	Sandeep Kumar Jhamb*1, Ashish Goyal1, Anand Pandey1,Jay Marwaha1, Jay Matai1	Department of Mechanical Engineering, Manipal University Jaipur, Dehmi Kalan, Jaipur, Rajasthan, India, 303007	Degradation behaviour of magnesium alloy and its composite used as a biomaterial	UnRegistered
17	405	Kajal, Anu Radha Pathania	Department of Chemistry, UIS, Chandigarh University, Mohali, Punjab, India	Chemistry behind Serum Albumin: A Review	Registered
18	409	Sarthak Prasad Sahoo and Saurav Datta	Department of Mechanical Engineering, National Institute of Technology, Rourkela-769008, ODISHA (INDIA)	Machining response of Ti64 alloy under Nanofluid Minimum Quantity Lubrication (NFMQL)	Registered
19	420	Devendra Pratap Singh Vijay Kumar Dwivedi, and Mayank Agarwal	GLA University, Mathura 281406, India	The key attributes of processing parameters on semi-solid metal casting: An Overview	Registered
20	423	S.Rajeswari*, Gyanabati. Khurajam	Humanities & Sciences Department, Gokaraju Rangaraju Institute of	Disruptive Education for Sustainable Development-Cultivating Positive Learning Dispositions	Registered

			Engineering & Technology, Hyderabad, India		
21	426	Ayush Trivedi * Vijay Kumar Dwivedi , and Mayank Agarwal	GLA University, Mathura 281406, India	Cladding techniques that achieve a solid metallurgical bond with the least amount of base material dilution - An overview	Registered
22	431	M.Sri Vidya* and Dr. G. R. Sakthidharan	MTech Student, Computer Science and Engineering, GRIET, Hyderabad, Telangana, India.	Outlier Detection for IoT devices in Indoor Situating Framework using Machine Learning Techniques and Comparison	UnRegistered
23	432	Kim-Ngan T. Tran, To-Uyen T. Dao, Anh Tien Nguyen, Van Tan Lam	Institute of Environmental Sciences, Nguyen Tat Thanh University, Ho Chi Minh City, Vietnam	Removal of Congo Red dye by Using Ca-Al Layer double hydroxide: Fabrication and Adsorption Process Optimization	UnRegistered
24	601	O.S. Fatoba*; S.A. Akinlabi; O.M. Ikumapayi; E.T. Akinlabi	Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg., South Africa.	Influence of Rapid Solidification and Optimized Process Parameters on the Microstructural Evolution of Additive Manufactured Titanium Alloy Grade 5 Composite	UnRegistered
25	625	Shruti Sharma, *, Anu Radha Pathania	Department of chemistry, UIS, Chandigarh University, Gharuan, Punjab ,140301, India	Cardiovascular Diseases in the Mirror of Science -A Review	UnRegistered
26	628	O.S. FATOBA1*; S.A. AKINLABI2; E.A. MEKONEN,O.S. FATOBA*; S.A. AKINLABI; E.A. MEKONEN	Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg, South Africa	Thermal Analysis and Impart of Temperature Distribution on the Performance of Additive Manufactured Titanium Alloy Based Composite Coatings	UnRegistered
27	901	Navuri Karteek1*, Pothamsetty Kasi V Rao2, K. Ravi Prakash Babu3, D. Mojeshwara Rao4	Research Scholar, Department of Mechanical Engineering, Andhra University, Vishakapatnam, A.P., India	Structural Analysis of Motorcycle Alloy Wheel	UnRegistered
28	905	K.M. Alemu, O.S. Fatoba*; D.K. Nageswara Rao; E.T. Akinlabi	Faculty of Technology, Department of Mechanical Engineering, Debre Tabor University, Debre Tabor, Ethiopia	Stress Analysis of Hole Orientation and Laminate Geometry Impacting on Boron/Epoxy Composites Laminates	UnRegistered
29	1101	Gagandeep, Anuradha Pathania	Department of Chemistry, UIS, Chandigarh University, Mohali, Punjab, India	Advances in chemistry of carbon nanotubes and their composites (nanomaterial): A Review	Registered

30	1106	Sanjeev Kumar Gupta,*, Shubham Gupta, and Rajeev Singh1	Department of Mechanical Engineering, Institute of Engineering & Technology, GLA University Mathura 281406, India	A Comprehensive Review of Energy Saving in Shell and Tube Heat Exchanger by Utilization of Nanofluids	UnRegistered
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## Final Accepted papers of AMPT Journal (T&F)

S.NO	Paper ID T&F	Paper ID	Author Name	Affiliation	Paper Title
1	TMPT-2021-0138	212567161	Virendra Kumar Yadav, Nisha Choudhary, Nitin Gupta2, Pankaj Kumar	School of Lifesciences, Jaipur National University, Jaipur, Rajasthan, 302017, India	A Noble and Economical Method for the Synthesis of Low Cost Zeolites From Coal Fly Ash Waste
2	TMPT-2021-0126	210098156	C.P.Khunt, M.A.Makhesana, B.K.Mawandiya, K.M.Patel	Mechanical Engineering Department, Institute of Technology, Nirma University, Ahmedabad- 382481, India	Investigations on the influence of printing parameters during processing of biocompatible polymer in Fused Deposition Modeling (FDM)
3	TMPT-2021-0127	214129502	Sahil Garg MAHENDRA CHILAKALA RAHUL SAMYAL KULDEEP Kumar SAXENA Nakul Gupta	Lovely Professional University Faculty of Technology and Sciences Naya Nangal, India	Numerical Simulation of cracks in automotive coating under mechanical and Thermal loading using element free Galerkin method
4	TMPT-2021-0147	219391456	Lokeswar Patnaik Saikat Ranjan Maity Sunil kumar	Department of Mechanical Engineering, National Institute of Technology Silchar, Assam- 788010, India	Evaluation of Crack resistance and Adhesive Energy of AlcrN and Ag doped a-c films on Chrome nitrided 316 LVM Stainless steel
5	TMPT-2021-0146	213854617	Sunil kumar Saikat Ranjan Maity Lokeswar Patnaik	Department of Mechanical Engineering, National Institute of Technology Silchar, Assam-788010, India.	Effect of mechanical properties of additively manufactured H13 substrate on the adhesion of TiAlN coating: A comparative study
6	TMPT-2021-0144	218319033	BALRAM YELAMASETTI Rajyalakshmi G Kuldeep K Saxena Deepak Kumar	Department of Mechanical Engineering, CMR Institute of Technology, Medchal, Telangana- 501401, India	Experimental investigation on temperature profiles and residual stresses in GTAW dissimilar weldments of AA5052 and AA7075
7	TMPT-2021-0153	213912756	Nayan Pundhir, Himanshu Pathak and Sunny Zafar	Composite Design and Manufacturing Research Group, School of Engineering, IIT Mandi, VPO Kamand, Mandi, Himachal Pradesh, India - 175075.	Crashworthiness performance of HDPE- Kenaf and HDPE-CNT composite structures

8	TMPT-2021-0157	212858014	Swagat Dwibedi and Swarup Bag	Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam 781039, India	Influence of process parameters on microstructural evolution, solidification mode, and impact strength in joining of stainless steel thin sheets
9	TMPT-2021-0164	215981599	Ankit Asthana and Vivek Srivastava	BBD University and DIT University	Analysis of Mechanical Strength and Young's Modulus of ultrasonically functionalized CNT-Epoxy Composites
10	TMPT-2021-0169	215513237	Manjunath Naik H R , Manjunath L H , Vinayak Malik , Manjunath Patel G C , Kuldeep K Saxena, Avinash Lakshmikanthan	School of Mechanical Engineering, Reva University, Bengaluru, India	Effect of Microstructure, Mechanical and Wear on Al-CNTs/Graphene Hybrid MMCs
11	TMPT-2021-0166R1	216865096	Vinyas Mahesh, Dineshkumar Harursampath	Siddaganga Institute of Technology Industrial Engineering and Management India	Influence of Alkali Treatment on Physio-Mechanical Properties of Jute-Epoxy Composite
12	TMPT-2021-0197R1	211078329	Sriram Mukunda, Vinyas Mahesh, Narendra Nath S , Mervin A Herbert , Mukunda P G	Dept. of Mechanical Engineering , NITTE Meenakshi Institute of Technology, Bangalore - 560064	Effect of low-temperature annealing on the superelastic response and electrochemical corrosion behaviour of equi-atomic Ni-Ti alloy
13	TMPT-2021-0185R1	213785655	Nitin Sahai, Kuldeep K. Saxena, Nakul Gupta , Sahil Garg, Uddipta Bora, Utpal Jyoti Baishy , Volga Borah	Department of Biomedical Engineering, North Eastern Hill University, Shillong, Meghalaya, 793022, India	Designing & Simulation of a Lightweight Hip Implant Stem: An FEM Based Approach
14	TMPT-2021-0190	218616189	Tanya Buddi Kanchu Venkata Durga Rajesh Abdul Munaf Shaik	griet	Wear And Corrosion Analysis On Maraging Steel Ms1 And Stainless Steel 316l Developed By Direct Metal Laser Sintering Process
15	TMPT-2021-0226R1	218277147	Adeolu Adediran Fuad Olanrewaju Olanrewaju Adesina Kenneth Alaneme Esther Akinlabi	Landmark University College of Science and Engineering Nigeria	Mechanochemical Processing and Characterization Studies of Si-Based Refractory Compounds Derived from Sugarcane Bagasse

16	TMPT-2021-0211R1	210916923	Venkatesan S Giridharan P. K. Sivakumar N S Ram Subbiah Sharavanan S Senthamilselvi A	Amrita College of Engineering and Technology India	Tribological behavior of AA7168 hybrid composite sheets for aerospace structures fabricated through COMPO casting
17	TMPT-2021-0218R1	213639629	Ndudim Ononiwu Esther Akinlabi Chigbogu Ozoegwu Nkosinathi Madushele	University of Johannesburg Faculty of Engineering and Built Environment SOUTH AFRICA	Effects of carbonized eggshells on the mechanical properties, microstructure and corrosion resistance of AA1050 for metal matrix composites applications
18	TMPT-2021-0227R1	217255827	Priyanka Kumari Ajaya Bharti Vishnu Agarwal Naveen Kumar Kuldeep K. Saxena	Motilal Nehru National Institute of Technology India	ZnO Coating on Silicon Rubber Urinary Catheter to Reduce the Biofilm Infections
19	TMPT-2021-0231R1	217217762	RAJESH PUROHIT,ANURAG NAMDEV ,AMIT TELANG ,ASHISH KUMAR	MANIT Bhopal Bhopal, Madhya Pradesh INDIA	The Effect of Inter Critical Heat Treatment on Mechanical and Wear Properties of AISI 1015 Steel
20	TMPT-2021-0232R1	215454294	RAJESH PUROHIT P.S. YADAV ANIL KOTHARI R.S. RAJPUT	MANIT Bhopal Bhopal, Madhya Pradesh INDIA	Effect of Nano SiO <sub>2</sub> on Mechanical and Thermal Properties of Polymer Matrix Nano composites
21	TMPT-2021-0235R1	210690384	ANIMESH BAIN KEERTHI REDDY J SARANYA A.Anitha Lakshmi N SATEESH SWADESH KUMAR SINGH RAM SUBBIAH	griet	WEAR AND MICROSTRUCTURE ANALYSIS ON AISI420 STAINLESS STEEL BY ANNEALING & TEMPERING PROCESS UNDER DRY SLIDING CONDITIONS
22	TMPT-2021-0229R1	216659090	RAJESH PUROHIT ANURAG NAMDEV AMIT TELANG	MANIT Bhopal Bhopal, Madhya Pradesh INDIA	Effect of Graphene Nano Platelets on Mechanical and Physical Properties of Carbon Fiber/Epoxy Hybrid Composites
23	TMPT-2021-0242	219059381	J.O. Obiko <sup>1</sup> , R.M. Mahmood <sup>2,3</sup> , F.M. Mwema <sup>2,4*</sup> , A.A. Adediran <sup>5</sup> , Michael Bodunrin <sup>6</sup> , E.T. Akinlabi <sup>7</sup>	Jomo Kenyatta University of Agriculture and Technology, Nairobi- Kenya, Department of Mining, Materials and Petroleum Engineering	Constitutive analysis of hot forming process of P91 steel: Finite Element Method Approach

24	TMPT-2021-0243R1	210269486	Bikash Kumar, Swagat Dwibedi, Swarup Bag, Manmohan Mahapatra, Roshan Gupta	Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, 781039, India	A comparative study on microstructural and mechanical behavior of spot welded Ti-6Al-4V alloy in as-welded and solution treated condition
25	TMPT-2021-0141R1	219518366	T. H. Sibisi 1, M. B. Shongwe 1, O.T. Johnson 2, R. M. Mahmood3,4, *, S. Akinlabi5, S. Hassan5, Hongbiao Dong6, Keith F. Carter7 and E. T. Akinlabi 8	Department of Chemical, Metallurgical & Materials Engineering, Tshwane University of Technology, P.M.B. X680, Pretoria, South Africa	Characterization of Aluminium Ni-40Fe-10Ti fabricated by friction stir processing
26	TMPT-2021-0130R1	219615411	Virinder Kumar and Shankar Sehgal	Panjab University, Chandigarh, India	Development and characterization of microwave processed SS2205 joints
27	TMPT-2021-0135R1	210944486	Dr Mallapuram Bala Chennaiah	Assistant Professor, Mechanical engineering Dept. V.R. Siddhartha Engineering College	Characterization of Zinc Oxide Nanoparticles-Herbal Synthesized coated with Ocimum Tenuiflorum
28	TMPT-2021-0128R1	212234696	Balram Yelamasetti,	CMR Institute of Technology Hyderabad, Telangana INDIA	Finite element simulation for predicting temperature and residual stresses distribution developed in dissimilar welds of Monel 400 and AISI 309L
29	TMPT-2021-0151R1	219457374	venugopal,satyanarayanna	Anurag University India	Investigation on Tube End Forming Behavior of AA6061 Alloy
30	TMPT-2021-0167R1	213956805	Rajnish Singh1, Saadat Ali Rizvi2, Kuldeep K Saxena3, S. S. Godara4	Department of Mechanical Engineering, Kamla Nehru Institute of Technology, Sultanpur, India228118	Microstructure Characterization and mechanical behaviour of AA 6063 T-6 welded joint by friction stir welding
31	TMPT-2021-0179R1	218327157	Rajesh Kr Porwal, Ravindra Kr Misra*, Kuldeep K Saxena, S. S. Godara	Faculty of Mechanical Engineering, Institute of Technology, Shri Ramswaroop Memorial University, Barabanki	Effect of Post Weld Heat Treatment on Mechanical Properties of MIG Welded Mild Steel
32	TMPT-2021-0186R1	213188056	C.C. Nwaejua,b,*, F.O. Edoziunob,c, A.A. Adedirand, E.E. Nnukab, E.T. Akinlabie	Department of Mechanical Engineering, Nigeria Maritime University, Okerenkoko, Delta State, Nigeria.	Development of Regression Models to Predict and Optimize the Composition and the Mechanical Properties of Aluminium Bronze Alloy
33	TMPT-2021-0181R1	219600551	Jinesh Kumar Jain1, Tejendra Singh Singhal1, Manoj Kumar2, Kuldeep Kumar Saxena3	Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, India	Effect of Filler Wire preheating and Nozzle cooling with Advanced Submerged Arc welding Process on Bead Geometry and Microstructure
34	TMPT-2021-0182R1	212578575	Toshit Jain, Jinesh Kumar Jain, Kuldeep Kumar Saxena	Dept. of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, India-302017	Design and Systematic Study of Biodegradable Zinc-based Implants for Load Bearing Applications



35	TMPT-2021-0219R1	212543307	Ndudim Ononiwu, Chigbogu Ozoegwu, Esther Akinlabi, Nkosinathi Madushele,	University of Johannesburg Faculty of Engineering and Built Environment SOUTH AFRICA	Evaluation of particle size distribution, mechanical properties, microstructure and electrochemical studies of AA1050/Fly ash metal matrix composite
36	TMPT-2021-0253R1	218295355	K. V. Durga Rajesh, Himanshu Mishra, Tanya Buddi	Associate Professor, Department of Mechanical Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, India	FINITE ELEMENT ANALYSIS OF CHROMIUM AND MOLYBDENUM ALLOYED STEEL BILLETS FORGED ON MULTI STEP PROCESS USING SIMUFACT FORMING
37	TMPT-2021-0257R1	219297218	Joan Nyika Fredrick Mwema Rasheedat Mahamood Esther Akinlabi Tien-Chen Jen	Dedan Kimathi University of Technology School of Engineering Nyeri, Select KENYA	Advances in 3D Printing Materials Processing-Environmental Impacts and Alleviation Measures
38	TMPT-2021-0252R1	218110070	V.S.S Venkatesh, Ashish B Deoghare	Ali Yavar Jung National Institute for the Hearing Handicapped Southern Regional Centre India	Modelling and Optimization of Wear Parameters for Spark Plasma Sintered Al-SiC-Kaoline Hybrid composite
39	TMPT-2021-0254	216783381	Bandhavi Challa, Seeram Srinivasa Rao, Pradeep Manne Tanya Buddi, Kosaraju Satyanarayana	griet	Experimental investigation and Optimization of $\alpha$ - $\beta$ Brass at Elevated Temperatures Using Taguchi Approach
40	TMPT-2021-0291	215787079	Kamardeen Abdulrahman Rasheedat Mahamood Esther Akinlabi Adeolu Adediran	Landmark University College of Science and Engineering Mechanical Engineering, Nigeria	Effect of laser power on the microstructure and mechanical characteristics of laser deposited titanium aluminide composite
41	TMPT-2021-0241R1	215026476	Mainak Saha	National Institute of Technology Durgapur Chennai, Tamil Nadu India	$\gamma$ -TiAl alloy: Tensile creep deformation behaviour and creep life at 832 °C
42	TMPT-2021-0271	219200993	Cleophas Obara, Harrison Shagwira, Rasheedat Mahamood, Tien-Chien Jen, Esther Akinlabi, Japheth Obiko, Fredrick Mwema	Department of mechanical engineering, Dedan Kimathi University of Technology, 10143, Nyeri, Kenya	Effects of forming parameters on metal flow behavior during the MDF Process: Taguchi and Response Surface methodology optimization
43	TMPT-2021-0274R1	214470425	Pardeep Saini, Pradeep Kumar Singh, Deepak Kumar, Anuj Maurya	Professor, Sant Longowal Institute of Engineering and Technology Mechanical Engineering	Optimization of process parameters for general machining in end milling of Al-4032 based metal matrix composite using TGRA

44	TMPT-2021-0284R1	218259414	Jayahari Lade,Kalluri Nagachary ,Kuldeep Kumar Saxena,Kaliappan Seeniappan,Ravindra Singh Rana	Professor KG Reddy College of Engineering and Technology Mechanical Engineering Hyderabad	Mechanical Characterization and Study of Nickel Based super alloy 718 at Subzero Temperatures
45	TMPT-2021-0287R1	210449607	Bikash Banerjee,Subhadip Pradhan ,Somnath Das,Arindam Chakraborty,Debabrata Dhupal	Professor,Veer Surendra Sai University of Technology Production Engineering Department VSSUT, Burla Sambalpur, Odisha	Horn Design and Analysis in Ultrasonic Machining Process using ANSYS
46	TMPT-2021-0290R1	218988153	Joan Nyika,Fredrick Mwema ,Rasheedat Mahamood,Esther Akinlabi ,Tien-Chen Jen	Dedan Kimathi University of Technology School of Engineering Mechanical Engineering Private BagDedan Kimathi University of technology Nyeri, Select KENYA	A Five-Year Scientometric Analysis of the Environmental Effects of 3D Printing
47	TMPT-2021-0381	219159903	rajesh n,Guru Mahesh G ,Dr Venkataramaiah P	Sv college	Study of Machining Parameters on Tensile strength & Surface roughness of ABS samples printed by FDM
48	TMPT-2021-0297R1	215663706	Kanchu Venkata Durga Rajesh, Tanya Buddi	Koneru Lakshmaiah Education Foundation INDIA	FINITE ELEMENT ANALYSIS OF CHROMIUM AND NICKEL ALLOYED STEEL BILLETS FORGED UNDER WARM FORMING PROCESS USING DEFORM-3D
49	TMPT-2021-0302R1	210996125	Padmakumar Bajakke,Vinayak Malik ,Avinash L,Kuldee Saxena , Anand Deshpande	Gogte Institute of Technology Belagavi, Karnataka INDIA	A Novel Ultrahigh Conductive Al-Cu Composite Produced via Microwave Sintering and Post-Treated by Friction Stir Process
50	TMPT-2021-0305R1	211502324	B N V S Ganesh Gupta K,Soumya Sumit Dash ,Gangineni Pavan Kumar,Srinivasu Dasari ,Rajesh Kumar Prusty, Bankim Chandra Ray	National Institute of Technology Rourkela Rourkela, Odisha India	Evaluation of Mechanical behaviour of graphene oxide grafted CFRP composites: A comparison of Anodic and Cathodic EPD
51	TMPT-2021-0312R1	218870121	Vinod Yadav,Disha Murali,Ayush Srivastav ,Deepak Kumar,Rajesh Purohit	Maulana Azad National Institute of Technology, Bhopal Bhopal, Madhya Pradesh India	Modeling and FEM simulation of a pressurized and rotated functionally graded thick cylinder
52	TMPT-2021-0198R1	212715719	Rajesh Purohit,Rashmi Dwivedi,Mohneesh Choudhary ,Kuldeep Sahgal	MANIT Bhopal Bhopal, Madhya Pradesh INDIA	Analysis of Friction Factor in Cold Forging by using Ring with Triangular Boss Compression Test
53	TMPT-2021-0249R1	211773060	Ram Sajeevan , Avanish Kumar Dubey	Motilal Nehru National Institute of Technology India	Experimental Study on Indigenously developed Magnetic Force-assisted

					Powder-mixed EDM Set-up of Al based MMC
54	TMPT-2021-0313	210098635	Subhadip Pradhan, Sourav Sanket Tripathy ,Debabrata Dhupal	Veer Surendra Sai University of Technology Sambalpur, Odisha India	Machining of Aluminium Nitride Ceramic using Developed Hot Abrasive Jet Machining: An Experimental and Simulation Approach
55	TMPT-2021-0319	215745062	Priyanka Gupta,Nakul Gupta,Kuldeep Saxena ,Sudhir Goyal	GLA University Institute of Engineering and Technology India	Multilayer perceptron modeling of geopolymer composite incorporating fly ash and GGBS for prediction of compressive strength
56	TMPT-2021-0346R1	212125947	Lokeswar Patnaik, SAIKAT RANJAN MAITY, Sunil Kumar	National Institute of Technology Silchar Department of Mechanical Engineering INDIA	Evaluation of Gamma irradiated Ti6Al4V and Silver alloyed a-C coatings as friction pair via Response Surface Methodology
57	TMPT-2021-0322R1	210987648	Balram Yelamasetti,Venkat Ramana G ,Sandeep Manikyam,Kuldeep K Saxena	CMR Institute of Technology Hyderabad, Telangana INDIA	Multi-response Taguchi grey relational analysis of mechanical properties and weld bead dimensions of dissimilar joint of AA6082 and AA7075
58	TMPT-2021-0307R1	212387784	R Raja,Lijin George,Sabitha Jannet,Prudhvi Vijay Simha I,Sumanth K Ratna	Karunya Institute of Technology and Sciences India	Development and characterization of SiC/TiO <sub>2</sub> / Bio-char reinforced aluminum metal matrix composite
59	TMPT-2021-0303R1	218252637	Priyanka Gupta,Nakul Gupta,Kuldeep Saxena ,Sudhir Goyal	GLA University Institute of Engineering and Technology India	A novel hybrid soft computing model using stacking with ensemble method for estimation of compressive strength of geopolymer composite
60	TMPT-2021-0300R1	218252637	Renu Kumari,Kamal Yadav,Shikhar Barole,Laxmidhar Besra	National Institute of Technology Jamshedpur Jamshedpur, JHARKHAND India	Microstructural Characterization and Wettability behavior of Nano-HA coating on Ti-6Al-4V alloy by Electrophoretic Deposition Method (EPD)
61	TMPT-2021-0286R1	213537753	AKASH SHARMA VIJAY KUMAR DWIVED	GLA University India	Effects due to tool design during FSW Process of Aluminium Alloy AA7075 T6
62	TMPT-2021-0267R1	213431143	anitha lakshmi akkireddy,Srinivasa Rao Ch. ,Nagari Sateesh ,Ram Subbiah	Gokaraju Rangaraju Institute of Engineering and Technology INDIA	IMPLEMENTATION OF TAGUCHI APPROACH ON INVESTIGATION OF FORMABILITY FOR Al 8011 SHEETS AT ELEVATED TEMPERATURES
63	TMPT-2021-0375	212901026	V Dharam Singh,Gauri Mahalle ,Nitin Kotkunde,Swadesh Kumar Singh , M Manzoor Hussain	Muffakhm Jah College of Engineering and Technology Hyderabad, Telangana India	Analysis of Material Properties and Strain Hardening Behaviour of Brass at Different Temperature and Quasi-Static Strain Rate Conditions

64	TMPT-2021-0386R1	212639144	arvind sankhla,Kaushik Patel ,Kuldeep Saxena,Mayur Makhesana,Nakul Gupta	Nirma University Department of Mechanical Engineering Ahmedabad, Gujarat India	Experimental Investigation of Tool Wear in Machining of SiC Based AIMMC
65	TMPT-2021-0379R1	210050912	Ankur Gupta,Nakul Gupta ,Kuldeep Saxena	GLA University Kanpur, Uttar Pradesh INDIA	Experimental study of the mechanical and durability properties of Slag and Calcined Clay based geopolymer composite
66	TMPT-2021-0361R1	218950403	Hariom Tripathi, Ajaya Bharti ,Kuldeep Kumar Saxena,Naveen Kumar	Motilal Nehru National Institute of Technology India	Improvement in Mechanical Properties of Structural AZ91 Magnesium Alloy Processed by Friction Stir Processing
67	TMPT-2021-0378R1	217294911	Subhadip Pradhan,Piyush Bhusan Dash,Kanchan Kumari,Debabrata Dhupal	Biju Patnaik University of Technology Parala Maharaja Engineering College Gamjam, Odisha INDIA	Study of Micro Machining Characteristics by Nd-YAG Laser on NiTiNol Shape Memory Alloy
68	TMPT-2021-0372R1	219839865	sambit satpathy,MUNESH CHANDRA TRIVEDI ,Vishal Goyal,Chandra Shekhar Yadav,Neeraj Kumar Mishra	Noida Institute of Engineering and Technology (UP) India	Fractographic properties of electrode material of supercapacitor (carbon aerogel) with its application
69	TMPT-2021-0362R1	213204606	Dhaval Shah,Harsh Chokshi ,Kaushikkumar Patel,Shashikant Joshi	Nirma University Institute of Technology Ahmedabad, Gujarat INDIA	Experimental Investigations of Process Parameters on Mechanical Properties for PLA during Processing in FDM
70	TMPT-2021-0360R1	219898587	Nilesh Ghetiya,Shruti Bhatt ,Madhav Joshi	Nirma University Institute of Technology Ahmedabad, Gujarat India	Multiphysics simulation and validation of microwave melting characteristics of AA6061 by finite element analysis
71	TMPT-2021-0353R1	211343680	Sunil Kumar.SAIKAT RANJAN MAITY .Lokeswar Patnaik	National Institute of Technology Silchar Department of Mechanical Engineering India	Effect of Annealing on Structural, Mechanical and Tribological Properties of Cr-(CrN/TiAlN) coating
72	TMPT-2021-0352R1	210727945	Sujithra Renganathan ,Saritha D	Motilal Nehru National Institute of Technology Prayagraj, Uttar Pradesh India	Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer
73	TMPT-2021-0348R1	216947576	Shashikant Joshi,Kautilya Patel ,Dhaval Shah,Kaushik Patel,Bimalkumar Mawandiya	Nirma University Institute of Technology Ahmedabad, Gujarat India	Development and Performance Analysis of Out-of-Autoclave Curing Process for CFRP Composites
74	TMPT-2021-0347R1	212007461	Kamal Kishore,Nakul Gupta ,Kuldeep Kumar Saxena,L Jayahar	GLA University Kanpur, Uttar Pradesh INDIA	Development and Characterization of Bacteria as a Potential Application in Enduring the Mechanical and Durability Characteristic of Cement Composite

75	TMPT-2021-0340R1	216766595	S. S. Godara,Ayush Saxena ,Milan K. Chouhan ,Kuldeep K. Saxena	Rajasthan Technical University INDIA	Effect of die geometry on thermal fatigue analysis of Aluminium Alloy (A02240) dies in pressure die casting process
76	TMPT-2021-0334R1	217395193	Ribin Pazhamannil,Nikhil Krishnan ,Govindan P ,Abhilash Edacherian	Government College of Engineering Kannur India	Investigations into the effect of thermal annealing on fused filament fabrication process
77	TMPT-2021-0330R1	211737274	Akash Gupta,Kuldeep K. Saxena ,Ajaya Bharti,L. Jayahari,Kanwal Chadha ,Prudvi Reddy Paresi	GLA University Mathura, Uttar Pradesh India	Influence of ECAP Processing Temperature and Number of Passes on Hardness and Microstructure of Al6063
78	TMPT-2021-0324R1	212280257	Rajesh Egala, Srinivasu Gangi Setti,	National Institute of Technology Raipur  National Institute of Technology Raipur	Influence of surface modifications of Castor oil fiber on mechanical properties of fiber reinforced Epoxy composites
79	TMPT-2021-0310R1	210400639	K Seshacharyulu I, Gauri Mahalle, Nitin Kotkunde , Swadesh Kumar Singh , B Balu Naik	Sphoorthy Engineering College,Hyderabad, Telangana, India	Analysis of Tensile Deformation Behavior of Dual Phase -590 Steel at Different Temperatures and Strain Rates
80	TMPT-2021-0301R1	218346721	Fajar Nurjaman,Idecia Amely ,Widi Astuti, Bambang Suharno	Senior Researcher Lembaga Ilmu Pengetahuan Indonesia	THE EFFECT OF TERNARY BASICITY (CaO/(Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub> ) ON SELECTIVE REDUCTION OF LIMONITIC NICKEL ORE
81	TMPT-2021-0295R1	215412874	Swagat Dwivedi,Bikash Kumar,Swarup Bag	Research Scholar ,IIT Guwahati Mechanical Engineering INDIA	On the interaction of cooling rate with thermal-microstructural-mechanical characteristics of laser-welded $\alpha + \beta$ titanium alloy
82	TMPT-2021-0270R1	213542787	Naveena H S,Sunil S,Shrishail Kakkeri,SURESH R	Sri Venkateshwara College of Engineering India	DEVELOPMENT AND MECHANICAL TESTING OF NATURAL FIBER REINFORCED POLYPROPYLENE RESIN HYBRID COMPOSITE
83	TMPT-2021-0265R1	218028589	Rajesh Kr Porwal,Utkarshika Chandra ,Ravindra Misra	Shri Ramswaroop Memorial University Barabanki, Uttar Pradesh INDIA	Comprehending and optimizing slurry behaviour characteristics of ceramics in additive manufacturing
84	TMPT-2021-0383R1	215179265	Deepen Banoriya,Rajesh Purohit ,Ravi Kumar Dwivedi	IES GROUP OF INSTITUTIONS BHOPAL, MADHYA PRADESH INDIA	TRIBOLOGICAL BEHAVIOUR OF BIOCOMPATIBLE TPU COMPOSITES WITH REINFORCED TITANIUM
85	TMPT-2021-0357R1	213022516	Maninder Singh,Sushil Singh,Ravi Khandelwal	Punjabi University Patiala, Punjab India	Analysis of Carbon Nanotube reinforced Composite Plate using Finite Element Method with Higher Order Zigzag Theory

86	TMPT-2021-0349R1	216901526	Subhadip Pradhan,Sudhansu Ranjan Das ,Pankaj Charan Jena,Debabrata Dhupal	Veer Surendra Sai University of Technology Sambalpur, Odisha India	Investigations on Surface Integrity in Hard Turning of Functionally Graded Specimen under Nano Fluid Assisted Minimum Quantity Lubrication
87	TMPT-2021-0327R1	216925341	MANIKYAM SANDEEP JAMALESWARA KUMAR PALAKOLLU	Koneru Lakshmaiah Education Foundation HYDERABAD, INDIA	EXPERIMENTAL INVESTIGATION AND SURFACE QUALITY PARAMETERS OPTIMIZATION IN WEDM MACHINING OF D-SERIES TOOL STEELS
88	TMPT-2021-0269R1	215920344	Bijayani Panda ,Vishwanatha A.D.	CMR Institute of Technology,India	Corrosion Behavior of Galvanised Steel in Alkaline Sodium Chloride Solution
89	TMPT-2021-0308	212831991	Sandeep Pandre,Nitin Kotkunde ,Ayush Morchalle,Swadesh Kumar Singh ,Ambuj Saxena	Birla Institute of Technology and Science - Hyderabad Campus Hyderabad, INDIA	Comparative Study of Formability Characteristics in Deep Drawing of DP 590 Steel using Analytical Models
90	TMPT-2021-0391R1	219557346	Sarada Prasad Parida,Pankaj Charan Jena ,S. R. Das,Debabrata Dhupal,R.R. Dash	Veer Surendra Sai University of Technology Sambalpur, Odisha India	COMPARATIVE STRESS ANALYSIS OF DIFFERENT SUITABLE BIOMATERIALS FOR ARTIFICIAL HIP JOINT AND FEMUR BONE USING FINITE ELEMENT SIMULATION
91	TMPT-2021-0335R1	214011686	Sateesh Nagri,Ram Subbiah ,Nookaraju BCh,Anithalakshmi A,Prashanth kumar P	Gokaraju Rangaraju Institute of Engineering and Technology India	ANALYSIS ON EFFECT OF NANOFUID ON PROCESS PARAMETERS IN MACHINING OF EN19 STEEL
92	TMPT-2021-0354R1	211706209	SHILPA PAL,sachin tiwari ,REKHA PURIA,VIKRANT NAIN,Rajendra Prasad Pathak	Gautam Buddha University  Gautam Buddha University	Impact of ureolytic and nonureolytic bacteria on self healing of artificial cracks in biofortified concrete
93	TMPT-2021-0398R1	218366363	Vijay Kumar Dwivedi,Priyanka Sharma,Dipak Kumar	GLA University Mathura, INDIA	Characterization of Anode Plasma deposited IN718 TBC system after thermal cycle shocking test
94	TMPT-2021-0371R1	217713549	Pawan Sharma, Mayand Padia	Sardar Vallabhbhai National Institute of Technology India	Design and development of auxetic structure using a two-step hybrid optimization technique
95	TMPT-2021-0390R1	214804754	Shalok Bharti,Nilesh Ghetiya ,kaushik patel	Nirma University Institute of Technology Ahmedabad, Gujarat INDIA	Fabrication of AA6061/Al2O3 Surface Composite by Double Pass Friction Stir Processing and investigation on Mechanical and Wear Properties
96	TMPT-2021-0413R1	216553316	Amit Yadav,Diptikanta Das ,Mantra Prasad Satpathy	KIIT Deemed to be University Bhubaneswar.	Machining performance of titanium based prosthetic alloy: a grey relational approach

97	TMPT-2021-0422R1	215459248	Chetan Nikhare,Nitin Kotkunde ,Swadesh Kumar Singh	Pennsylvania State University ,UNITED STATES	Effect of material discontinuity on springback in sheet metal bending
98	TMPT-2021-0425R1	218130550	Chetan Nikhare	Pennsylvania State University ,UNITED STATES	Channel deformation of bilayer material using tool rollers: Part II-Effect of layer thickness on springback
99	TMPT-2021-0433R1	212242188	AKASH SHARMA ,Vijay Kumar Dwivedi	GLA University India	Influence of tool rotational speed on mechanical properties of Aluminum Alloy AA 7075-T6 during friction stir welding process
100	TMPT-2021-0423R1	217308684	Chetan Nikhare	Pennsylvania State University UNITED STATES	Channel deformation of bilayer material using tool rollers: Part I-Springback
101	TMPT-2021-0388R1	212948050	VENKATA NAGA MOHAN MANCHIRAJU Atul Ramesh Bhagat Vijay Kumar Dwivedi	DRDO Advanced Systems Laboratory India	Prediction of elastic properties of Unidirectional Carbon/Carbon composites using analytical and numerical homogenization methods
102	TMPT-2021-0393R1	217161840	Saritprava Sahoo Pankaj Charan Jena	Veer Surendra Sai University of Technology Sambalpur, Odisha India	Preparation and Characterization of Hybrid Laminated Composite Beams
103	TMPT-2021-0325R1	215516994	Meena Vangalapati,Parveen Dudekula,Venkata Rao Poiba	Andhra University College of Engineering India	Characterization and Performance of ZnO Nano particles for theRemoval of Sodium Dodycl Sulfate
104	TMPT-2021-0332R1	215198049	Srinivasababu Nadendla	Vignan's Lara Institute of Technology and Science India	Chemo-mechanical synthesis, characterization of nanocellulose from okra fibre and their epoxy composites
105	TMPT-2021-0328R1	217597565	Meena Vangalapati,Subhashita Mata ,Thanusha Punugoti,Sowjanya Bandela,Venkata Rao Poiba	Andhra University College of Engineering India	Synthesis of Cu/ZnO nanoparticles and its exploitation as a catalyst for the removal of CTAB
106	TMPT-2021-0337R1	211565471	Rajesh Purohit,Ashish Kumar,Ravindra Singh Rana	Maulana Azad National Institute of Technology Bhopal, Mp INDIA	Tribological Analysis and Characterization of Zinc Rich Al/Si3N4 Composites Fabricated Via Ultrasonic Assisted Stir Casting Technique
107	TMPT-2021-0339R1	213033381	RAMAKRISHNA M V A,SRINIVAS K	CMR Institute of Technology,INDIA	Grey Relational Analysis of Friction Stir Welding Parameters for the Development of Dissimilar Joints between AA6082 and AA7075
108	TMPT-2021-0344R1	218174220	Nazym Badanova,Asma Perveen,Didier Talamona	Nazarbayev University Nursultan, Kazakhstan Kazakhstan	Concise review on Pattern making process in Rapid Investment Casting: Technology, Materials & Numerical modelling aspect

109	TMPT-2021-0345R1	215131251	Balram Yelamasetti, Venkat Ramana G ,Sandeep Manikyam,Vishnu Vardhan T	CMR Institute of Technology Hyderabad, Telangana INDIA	Thermal field and residual stress analyses of similar and dissimilar weldments joined by constant and pulsed current TIG welding techniques
110	TMPT-2021-0415R1	212356333	S. S. Goadra,Ayush Saxena ,Milan K. Chouhan,K. K. Saxena,Nakul Gupta	Rajasthan Technical University India	Thermal Fatigue Analysis of Saffil reinforced Aluminium alloys using pressure die casting process
111	TMPT-2021-0427R1	216411498	Durjyodhan Sethi,Sanjeev Kumar ,Shashank Shekhar,Barnik Saha Roy	National Institute of Technology Agartala India	Friction stir welding of AA7075-T6/TiB2 in situ cast composites plates using scarf joint configuration
112	TMPT-2021-0429R1	210223847	poojitha vindala,Raghu T ,pandurangadu v	Jawaharlal Nehru Technological University Anantapur India	Optical microscopic analysis of constrained groove pressed followed by cold rolled ARMCO iron sheet material
113	TMPT-2021-0318	210199347	A.K. Singh,T.K. Nandy,Ashutosh Panchal	DRDO Defence Metallurgical Research Laboratory INDIA	On the development of porous nickel through gelcasting technique
114	TMPT-2021-0320	219129375	Premkumar Manda, Antim Rewapati, C. Vanitha & A.K. Singh	Defence Research and Development Organisation India	STRUCTURE - PROPERTY - PROCESSING CORRELATIONS IN METASTABLE BETA TITANIUM ALLOYS Ti-10V-2Fe-3Al AND Ti-5Al-5Mo-5V-3Cr