



**National Conference
on
Product Design and Manufacturing (NCPDM 2015)
November 21-22, 2015**

Mechanical Engineering Department

Motilal Nehru National Institute of Technology Allahabad-211004

Schedule of Technical Sessions

Venue: Institute Seminar Hall

November 21, 2015: Technical Session 1 (03.00 to 04.15 PM)

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2	Mechanical behavior of Al 5083 processed by Constrained Groove Pressing Abhishek Kumar, Abir Roy , Shashank Shekhar	58
3	Fatigue Crack Growth Life Prediction Model for Discontinuous Reinforced Metal Matrix Composites under Large Scale Yielding Abhishek Tevatia, S. K. Srivastava	4
4	Development and Characterization of Chicken Feather Composite Material Ajai Kr. Singh, Ravi Shukla, A.K Srivastava	52
5	Development of Ni-Al ₂ O ₃ composite coating and the effect of plating modes on Microstructure and Tribological Properties Anas Ahmad Siddiqui, C.Sasi Kumar	59
6	Failure Mode Criticality Analysis using TOPSIS Method: A Case Study Gurinder Singh Brar, Gurpreet Singh, Kapil Sabhlock	35
7	Study on Recovery of the Functional Surfaces Harpreet Singh, P.K. Jain	7
8	Mechanical property of dual reinforced copper based hybrid composite Manvandra Kumar Singh, Dr. R. K. Gautama	10
9	Experimental analysis of mechanical properties of Fly ash and SiC reinforced Al metal matrix composites Poonam Sundriyal, Sanjay Kumar and P.L.Sah	12
10	Effects of thermal sprays WC mixed with Ni coating on three body abrasive wear behavior Prashant Shrivastava, Gavendra norkey, A.C Saxena	45
11	Effect of Normal Load and Frequency on Reciprocating Friction and Wear Behavior of Glass Fiber Reinforced Epoxy Composite Pujan Sarkar, Nipu Modak, Prasanta Sahoo	31
12	Fatigue life estimation of gas turbine blade Raghvendra Kumar Bais, K.N.Pandey	42

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14	A Study on Thermal and Mechanical Properties of Polyurethane Foam for Packaging Sandeep Shukla, Vinay Pratap Singh, S.B Yadav	30
15	Friction and wear trends of electroless Ni-P coatings under high temperature test conditions Sanjib Kundu, Suman Kalyan Das, Prasanta Sahoo	34
16	An Investigation on Tribological Properties of Electroless Ni-B Coating Under Dry Condition Santanu Duari, Arkadeb Mukhopadhyay, Tapan Kr. Barman, Prasanta Sahoo	33

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18	Tribological Behavior of Al-SiC Metal Matrix Composite in Brine Environment Smrutiranjan Pradhan, Tapan Kr. Barman, Prasanta Sahoo, Goutam Sutradhar	47
19	Application of Taguchi Method and ANOVA analysis for Selection and Optimization of Superfinishing parameters Amit Kumar, M. K. Khurana	5
20	Optimization of Machining Parameters in Turning Operation for Aluminium alloy AA 6063 Using Taguchi Technique Vishal Arya, Shashikant Verma	20
21	Optimization of bead geometry in submerged arc welding using developed agglomerated fluxes Brijpal Singh, Sachin Maheshwari, Satish Kumar Sharma, Z.A. Khan	44
22	Micro-Pitting in Various Manufacturing Techniques Deepak K. Prajapati, Mayank Tiwari	6
23	Optimization and Analysis of Two Gating System to Achieve Zero Defect in Casting Using Computer Aided Simulation Technique Ejazmallik.S. Ansari, G.D. Gokak, S.C. Kulkarni	40
24	Modeling and Simulation of Thermal Stress Distribution in Laser Cutting of Ti-alloy Sheet Kedari Lal Dhaker, Arun Kumar Pandey	46
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27	Solidification and thermal analysis of alluminium alloy casting with different sand mould Mohit Kumar Wagdre, J. C. Mohanta, B. Paul	55
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30	Experimental Modeling and Optimization of WEDM Process of Metal Matrix Composite Pankaj Kumar Shrivastava, Narendra Jaiswal, Alok Ranjan	50
31	Prediction of Surface Roughness for a different angle bends in Pneumatic Conveying System Using Regression Anaysis and ANFIS Premendra Mani Pradhan, Yassin Alkassar, P.K Mahto, R.Ghadai	53
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34	Process Parameter Optimization to Maximize Strength of Stereolithography Part using Genetic Algorithm Shristee Chauhan, Rajeev Srivastava	54
35	Modeling of Cutting speed for AISI 52100 steel in WEDM by Design of Experiments Srinivasarao.G.	48
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47	Design and Performance Study of Modified Solar Greenhouse Dryer Snigdha Lal, Rahul Dev, Ravi Prakash	26
48	Design And Optimization of Intake Restrictor for Single Cylinder Engine for Formula Style Car Somnath Kapoor, Ashish Kumar, Mohit Nagpal	3
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