



Dr. Akhilesh Das Gupta Institute of Technology & Management

FC – 26, Shastri Park, New Delhi

Department of Mechanical Engineering

Faculty Achievements

List of Publications

S.No.	Name of Faculty	Title of Paper	Journal/conference	Publisher
1.	Mr. Rajat Gupta	Development of an AA 7075 Wear-Resistant Coating on AA 6082 via Friction Surfacing: Optimization and Characterization	Journal of Materials Engineering and Performance	ASM International (Springer) 2023
2.	Mr. Ravindra Kumar	Overview of hydrogen production from biogas reforming: Technological advancement	International Journal of Hydrogen Energy	Elsevier (2022)
3.	Mr. Awdesh Poddar	Numerical simulation of non-linear film variation and heat transfer characteristics in falling film evaporation around in-line horizontal tubes	Journal of Thermal Engineering	Yildiz Technical University
4.	Mr. Awdesh Poddar	Numerical study of liquid film formation around tube s of horizontal falling film evaporator	Journal of Applied Fluid Mechanics	AFM
5.	Mr. Ankit Saxena	Improvement in Mechanical Properties of Aluminum Metal Matrix Composite- A Review	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
6.	Dr. Deepak Bharadwaj	Gear Housing and Gear design	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
7.	Mr. Rajat Gupta	SIDE STAND ALARM SYSTEM FOR TWO WHEELERS	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
8.	Mr. Ankit Saxena	WEB BASED VOICE ASSISTANT ROBOTIC CONTROLLER	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
9	Mr. Ankit Saxena	Fabrication of an Electric Bike for Single Occupant	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
10.	Mr. Mohit Garg	FIXED WING UAV RECOVERY SYSTEM USING A LINE SUSPENDED BETWEEN 2 BARS FOR AUTOMATIC MEDICAL DELIVERY SYSTEM	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
11.	Mr. Awdhesh Poddar	A Computational Approach to Design & Optimization of Shell & Tube Heat Exchangers	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
12.	Mr. Ankit Saxena	A Review on 3D printing technology (2015-2020)	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings
13	Mr. Awdhesh Poddar	Modelling and Analysis of Centrifugal Pump Impeller using Computational Fluid Dynamics	IECAME -2021, 21-22 May, 2021, New Delhi India.	Conference Proceedings

S.No.	Name of Faculty	Title of Paper	Journal/conference/ Book chapter	ISSN No./ISBN NO./year/vol./pages	Publisher
1	Dr. Jayant Singh	Rheological and film forming behavior of the developed Nano composite greases under electro hydrodynamic lubrication regime.	Trans ASME, Journal of Tribology	2019/141(2).	ASME

2	Dr. Jayant Singh	Tribo-Dynamics of Nano composite Grease Lubricated Point Contact Under Electro hydrodynamic Lubrication Regime	Trans ASME, Journal of Tribology	2019/141(3).	ASME
3	Dr. Jayant Singh	Friction, noise and vibrational response of reduced graphene oxide blended lithium grease under the point contact” Indian Journal of Tribology	Indian journal of tribology	2347-3037, Vol. 7, No. 3, July 2019	TSI
4	Dr. Jayant Singh	Role of Nano-particles in lube base oil	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings
5	Dr. Jayant Singh, Dr. Deepak Bhardwaj	Energy Efficient Graphene Based Nanocomposite Grease	Tribology in Materials and Applications (Book chapter)	978-3-03047451-5	Springer
6	Mr. Neeraj Kumar, Dr. Jayant Singh	Shot Peening Effects on Abrasive Wear Behavior of Medium Carbon Steel.	Automotive Tribology(Book chapter)	978-981-150434-1	Springer
7	Mr. Awdesh Poddar	Numerical investigation of film thickness variation on falling film tubular	Journal of Physics	Vol. 1240, No. 1, p. 012013	Journal of Physics: Conference Series
8	Mr. Sharat Srivastava	Microwave cladding on metallic surfaces: A Review	ICMET 2019, 07-08 Nov, 2019, Greater Noida, India	Materials Today: Proceedings 21 (2020) 1533-1536	Elsevier
9	Mr. Amit Sheoran	Process Parameters of Wire EDM	National E-Conference On Recent Advancements in Science and Technology, 2020	978-93-5408-327-3	Conference Proceedings
10	Mr. Mohit Garg	Advance casting processes: A Review	NECRAST 2020	978-93-5408-327-3	Conference Proceedings
11	Dr. Jayant Singh	Influence of tool pin profiles on UTS and % elongation on friction stir welded AA 6063	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings
12	Mrs. Richa Jain	Analysis of Ethanol-Gasoline blends in multi cylinder si engine	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings
13	Mrs. Richa Jain	Optimization of Wire-EDM process parameters on Machining Die Steel DC53 using Taguchi method with Grey Relational Analysis – A Review	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings
14	Mrs. Richa Jain	Design Analysis and Calculations for Economical Electric Vehicle	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings
15	Mr. Sharat Srivastava	Study on fundamentals of soft computing techniques	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings
16	Mr. Sharat Srivastava	Advance casting processes: A Review	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceedings

17	Mr. Sharat Srivastava	A Review on special welding techniques	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference Proceeding
18	Mr. Sharat Srivastava	A Review on special welding techniques	NECRAST 2020, 27th – 28th July, 2020, New Delhi, India.	978-93-5408-327-3	Conference

			Delhi, India.		Proceedings
19	Rajat Gupta	Dissimilar alloys (AA6082/AA5083) joining by FSW and parametric optimization using Taguchi, grey relational and weight method	Engineering Solid Mechanics	ISSN 2291 - 8752 (Online)) - ISSN 2291 - 8744 (Print).	Scopus

LIST OF PATENT FILED

Academic Year	Inventor Name	Applicant Name	Title of the Innovation	Application Number	Status
2022	Dr. Jayant Singh, Mr. Ankit Saxena, Dr. Pardeep kumar Rohilla, and Dr. Deepak Bhardwaj	Mr. Avinash Kumar	AUTOMATIC TABLET DISPENSING DEVICE	202211065834 A	Filed and Published
2021	Ankit Saxena Varnan Gautam Shlok Gupta	Ankit Saxena	Multifunctional garbage collection device (Utility Patent)	IN202111006325	Filed and Published
2021	Ankit Saxena	Ankit Saxena	Intelligent system for management of medical oxygen demand from Covid patient based on artificial intelligence & method thereof (Utility Patent)	2021102579	GRANT
2021	Ankit Saxena	Ankit Saxena	Self-leveling walking stick (Design Patent)	344542-001	Registered

Deepak

Dr. Deepak Bhardwaj

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