

# Manav Rachna University, Faridabad.

## Research Publications of UG/PG students published in Journals of last five years

S.No.	Deptt.	Research Coordinator / Faculty Mentor	Students Name	Title of the Paper	Authors of the paper	Details of Publication	Year of the Publication	Journal Name
1	Mechanical	Joginder Singh	Prateek Sachdeva, Rajendra Tiruwa	Remodelling of a Jet Engine Mounting Bracket using Structural Analysis and Topology Optimization	Joginder Singh, Prateek Sachdeva, Rajendra Tiruwa	Vol. XI, Issue XI, November 2022	2022	International Journal of Research
2	Mechanical	Joginder Singh	Anshul Tripathi, Pritam Das	Virtual Analysis and Manufacturing of Flat Specimen of Carbon Fiber Composite for Computing Tensile Strength	Joginder Singh, M.R. Tyagi, Anshul Tripathi, Pritam Das	Vol. XI, Issue XI, November 2022	2022	International Journal of Research
3	Mechanical	Joginder Singh	Sahil, Tushar Aggarwal	Frequency and Static Structural Linear Analysis of Non-Flexible Pedestrian Iron Bridge by Simsolid Software	Joginder Singh, M.R. Tyagi, Sahil, Tushar Aggarwal	Vol. XI, Issue XI, November 2022	2022	International Journal of Research
4	ECE	Dr. Shruti Vashist & Dr. Meenakshi Gupta	Aishvarj Gupta	Evolution of Blockchain: From Bitcoin Ethereum to Polkadot	Aishvarj Gupta, Shruti Vashist & Meenakshi Gupta	Vol. XI, Issue XI, November 2022	2022	International Journal of Research

5	CST	Dr. Parneeta Dhaliwal	Sayush Sharma, Lakshay Chauhan	Detailed Study of Wine Dataset and its Optimization	Parneeta Dhaliwal, Suyash Sharma, Lakshay Chauhan	Vol. 43, No. 5, pp. 6709-6741, September 2022	2022	International Journal of Intelligent Systems and Applications
6	Physics	Sandeep Kumar	Shruti Gulihar	Attosecond-XUV pulse generation using laser-based high harmonic generation in argon gas	Shruti Gulihar, Sandeep Kumar, Mukesh Jewariya	Vol No. 137, Article number: 851 (2022)	2022	The European Physical Journal Plus
7	Mechanical	-	Anshul Tripathi, Pritam Das, Tushar Aggarwal, Sahil	Diminution of Chatter Vibration in Single Point Cutting tool Holder using Finite Element Analysis (FEA)	Anshul Tripathi, Pritam Das, Tushar Aggarwal, Sahil	Volume 62, Part 6, 2022, Pages 3665-3669	2022	Materials Today Proceedings
8	Mechanical	-	Anshul Tripathi, Pritam Das, Tushar Aggarwal, Sahil	Efficiency Enhancement of a Hybrid Vertical Axis Wind turbine by utilizing Optimum Parameters	Anshul Tripathi, Pritam Das, Tushar Aggarwal, Sahil	Volume 62, Part 6, 2022, Pages 3582-3588	2022	Materials Today Proceedings
9	Physics	Aditya Sharma	Tanisha Gautam, Anjali Sharma	XANES Investigations on Electronic Structure and Magnetic Properties of GaFeO <sub>3</sub> Nanocrystals	Aditya Sharma, Mayora Varshney, Tanisha Gautam, Anjali Sharma, Ankush Vij, Ram K Sharma, Byeong-hyeon Lee,	Vol No.51, Pages: 4133-4138	2022	Journal of Electronic Materials

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10	Law	Dr. S.K Bose	Shagun Sharma	Globalization and Dispute Settlement Mechanism in International Trade Law	Shagun Sharma	Volume 5, Issue 1 (2022)	2022	International Journal of Law Management & Humanities
11	Law	Dr. Versha Vahini	Yamini Nyar	Impact of Globalization on Human Rights	Yamini Nayyar	Volume 10, Issue I	2022	International Journal of AllResearch Education & Scientific Methods
12	Law	Dr S.K Bose	Shagun Sharma	Adoption of International Arbitration Law in Indian Legislation and Contribution of Indian Judiciary	Shagun Sharma	Volume III, Issue II	2021	Indian Journal of Law and Legal Research
13	Law	Dr S.K Bose	Keshav Roy	Impact of Globalization on India	Keshav Roy	Volume 27	2021	Supremo Amicus
14	Physics	Dr. Deepti Maikhuri	Soumyadeep Manna	Numerical Modeling for Computation of Confined Energy States in Oblate Spheroidal Quantum Dots: Effect of Dot Size, Eccentricity and Surrounding Matrix	Deepti Maikhuri & Soumyadeep Manna	Vol.136, 1196	2021	European Physical Journal plus

15	Law	Dr S.K Bose	Ruchi Bhardwaj	Refugee Laws in India	Ruchi Bhardwaj	Volume 9 , Issue -12	2021	Quest Journal of Research in Humanities and Social Science
16	Law	Dr S.K Bose	Shalu Shrivastava	The Rise of Globalization and its effect on the Autonomy of State and Political Economy	Shalu Shrivastava	Volume 27	2021	Supremo Amicus
17	Law	Dr S.K Bose	Rohit Kumar Singla	Third Party Funding for Arbitration in India	Rohit Kumar Singla	Volume 9, /issue - 48	2021	Scholarly Research Journal For Humanity Science & English Language
18	CST	Dr. Parneeta Dhaliwal	Barkha Shree	Behavioural Evidence Analysis: A Paradigm Shift in Digital Forensics	Barkha Shree, Parneeta Dhaliwal	13(5):20-42	2021	International Journal of Digital Crime and Forensics
19	Mathematics	Dr. Deepa Arora	Pratibha	On Skew Strong McCoy Rings	Pratibha, Amit B.Singh and Deepa Arora	Vol.71(1), 2021, 1-7	2021	GANITA
20	Law (LLM)	-	Anup Menon	Interim Reliefs Through Courts In Arbitral Proceedings: Question of Territorial Jurisdiction	Anup Menon		2021	Legal Armor
21	Law (LLM)	-	Anup Menon	Why COVID-19 vaccines should be free for everyone in	Anup Menon		2021	The News Minute

				India				
22	Mathematics	-	Sapna	A Modified Hungarian methodology to solve assignment problem	Sapna, Ruchi Gupta	Vol. 50, Issue 04, 1-8	2021	Journal of Huazhong University of Science and Technology
23	Mechanical	Mr. Mandeep Bhadana	Final yr students of Mechanical (8th Sem)	Design, Analysis, and Fabrication of an Electric Dune Buggy	Prateek Mahapatra, Manan Aggarwal, Shivam Singh, Ritvik Manocha	Vol.10 Issue 04	2021	International Journal of Engineering Research & Technology (IJERT)
24	Law (LLM)	-	Shaila Arora	Independence of Judiciary in India	Shaila Arora	Vol. IV, Issue I	2021	International Journal of Law Management & Humanities
25	Law (LLM)	-	Anup Menon	Recognition of the Third Gender and the Current Status of Transgender Laws	Anup Menon	Vol.7 , Issue 4	2021	International Journal of Socio Legal Research
26	Law (LLM)	-	Avantika Singh	□□□□□□ □□□□□ □□□□□□	Avantika Singh		2021	Star Samachar (Newspaper)
27	Mathematics	-	Ridhi Bhatnagar	Comparative Study of Wavelet Transform and Wavelet Packet Transformation in Image Denoising using Thresholding Technique	Ridhi Bhatnagar and Aparna Vyas	Vol. VI, Issue I, January 2021.	2021	International Journal of Technical Research & Science (IJTRS)

28	Chemistry	Dr. Megha Bansal	B.Sc. (H) Chemistry Batch 2018-2020	Determination of Sun Protection Factor of Vegetable and Fruit extracts using UV-Visible Spectroscopy: A Green Approach	Tanya Sharma , Vinika Tyagi , Megha Bansal	Vol.18, December 2020, 100347	2020	Sustainable Chemistry and Pharmacy
29	Physics	-	Himani Saraswat, Surekha Chaudhary	150 KeV Cu-ion-implantation in SrVO3 thin films: A study of Cu induced defect states	Aditya Sharma, Himani Saraswat, Surekha Chaudhary, Mayora Varshney, Devarani Devi, Fouran Singh, SO Won, Hyun-Joon Shin	Vol.181	2020	Vacuum
30	Physics	-	Surekha Chaudhary, Himani Saraswat	Structural and Electronic-Structure Investigations of Defect States in Cu-ion-Implanted SnO2 Thin Films	Surekha Chaudhary, Himani Saraswat, Devarani Devi, Pawan Kulriya, Fouran Singh, Sung-Ok Won, Hyun-Joon Shin, Jai Parkash, Aditya Sharma	Vol.179	2020	Vacuum
31	Mechanical	Mr. Pradeep Kumar Mouria	Final yr students of Mechanical (8th	Designing Geothermal Heating and Cooling System	Prateek Mahapatra and Shivam Singh	Vol.9 Issue 07, July-2020	2020	International Journal of Engineering Research & Technology

			Sem)					(IJERT)
32	Mechanical	Mr. J.P Sharma	Final yr students of Mechanical (8th Sem)	Impact behaviour analysis of a newly designed go-kart chassis	Prateek Mahapatra, Gourav Arora, Manan Aggarwal, Shivam Singh, Ritvik Manocha	13(23):2336-2344	2020	Indian Journal of Science and Technology
33	CST/ Mathematics	Dr. Ruchi Gupta	Chavi Baliyan, Mansi Mangla	Future population and Literacy rate Projection in India	Ruchi Gupta, Hardeo kumar Thakur, Chavi Baliyan, Mansi Mangla	83	2020	Test Engineering and Management
34	Law	-	Priyanka Walter	International Court of Justice and State Consent	Priyanka Walter		2020	The L Word:insight of a law freak
35	Mathematics	-	Sachin	Study of Stability and Solution of a System of Ordinary Differential Equations: Linear Algebra	Y K Sharma, Sachin, Deepk Kumar	Vol.(7) I(XVII)-320-323	2020	International Journal of Advance and Innovative Research
36	Physics	-	Himani Saraswat	Nano-structured phases of gallium oxide (GaOOH, $\alpha$ -Ga <sub>2</sub> O <sub>3</sub> , $\beta$ -Ga <sub>2</sub> O <sub>3</sub> , $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> , $\delta$ -Ga <sub>2</sub> O <sub>3</sub> , and $\epsilon$ -	Aditya Sharma, Mayora Varshney, Himani Saraswat, Surekha Chaudhary, Jai Parkash,	Vol. 10, Issue 01	2020	International Nano Letters

				Ga2O3): fabrication, structural, and electronic structure investigations	Hyun-Joon Shin, Keun- Hwa Chae, Sung-Ok Won			
37	Chemistry	Dr. Pradeep K. Varshney	Kajal Gautam & Monika Tanwar	Current trends and future prospectives in the recycling of spent lead acid batteries in India	Pradeep K. Varshney, Kalpna Varshney, Kajal Gautam, Monika Tanwar	Vol.26, Part 2, 2020, Pages 592- 602	2020	Materials Today Proceedings
38	Mathematics	-	Sachin	Mathematical Model for Genetics using Linear Algebra	Yogendra Kumar Sharma, Schain, Bhawna Mehta and Deepak Kumar	Vol1(1)- 2019	2020	FIRMS's International Journal of Mathematica l Sciences.
39	ECE	Dr. Mohit Verma	Rahul Yadav, Ayush Goel	A State-of-the- Art Study on Energy Harvesting Systems: Models and Issues	Rahul Yadav, Ayush Goel, Shruti Vasisth, Mohit Verma	Vol. 12, Issue: 41, Pages: 1-6 (2019)	2019	Indian Journal of Science & Technology (IJST)
40	CST	Dr. Sachin Kansal	Abhishek Sontakke, Aman Diwakar	Intelligent Automatic Traffic Challan on Highways and Payment through FASTag card	Abhishek Sontakke, Aman Diwakar	Vol.12, Issue-44, 11 (2019)	2019	Indian Journal of Science & Technology (IJST)
41	ECE	Dr. Mohit Verma	Ayush Goyal, Madan Mohan Dhir,	Methodology of Exoskeleton with Actuation Methods and Discussion of Nerves sensing	Ayush Goyal, Madan Mohan Dhir, Vijay Kumar Gill, Mohit	Vol.12, Page no.1- 8, 10 (2019)	2019	Indian Journal of Science & Technology (IJST)



				for Exoskeleton	Verma			
42	Mechanical	Dr. Anil Kumar Singh Bankoti	S. Somesh, Sumit Kumar Shaw	A comprehensive review on LiBr-H <sub>2</sub> O based solar powered vapour absorption refrigeration system	S. Somesh, Sumit Kumar Shaw, Piyush Mahendru	2019, 343-352	2019	Lecture Notes in Mechanical Engineering
43	Mechanical	Dr. Anil Kumar Singh Bankoti	Himanshu Garg, Kunal Singh, K. Aditya, Himanshu Gupta	Comparative Study of Sheet Metal and Carbon Fiber Reinforced Composites Ceiling Fan Blade	Joginder Singh, M.R. Tyagi, Himanshu Garg, Kunal Singh, K. Aditya, Himanshu Gupta	2019, 413-419	2019	Lecture Notes in Mechanical Engineering
44	CST	Dr. Vinay Kumar Jain	Kaustubh, Madhur Ahuja, Vikash Singh	A Review Paper on Management of Big Data	Gaganjot Kaur, Kaustubh, Madhur Ahuja, Vikash Singh	Vol. 4, Issue 1, Page no. 11-15	2019	Journal of Data Mining and Management
45	CST	Mr. Manoj Kumar	Sahil Sachdeva, Akshuta Sachdeva, Yash Bakhsi	Camlens-An innovative Android Phone Application to empower the blind and visually impaired in reading any kind of printed text in real time using opencv	Sahil Sachdeva, Akshuta Sachdeva, Yash Bakhsi, Manoj Kumar	Vol. 4, Issue 3, Page no. 1-15	2019	Journal of optical communication electronics
46	Mechanical	Dr. Anil Kumar Singh Bankoti		Frictions stir welding of magnesium and aluminium	Sahil Verma, Ayush Chaudhary, Isha	2019; Vol.10 (Suppl 2):	2019	IIOAB Journal

				alloys: A review	Sharma, Pradeep Mouria	116-120.		
47	Mechanical	Dr. Ashish Selokar	Himanshu Garg, Karan Sehgal, Rahul Lamba	A Systematic Review: Effect of TIG and A-TIG Welding on Austenitic Stainless Steel	Himanshu Garg, Karan Sehgal, Rahul Lamba and Gianender Kajal	2019, 375-385	2019	Lecture Notes in Mechanical Engineering
48	Mathematics	-	Nikita Gulati, Komal, Diksha Jasrotia	An Alternative Method to Reduce Medicine Costs By Minimizing Transportation Overheads	Ruchi Gupta, Mukesh Sahu, Nikita Gulati, Komal, Diksha Jasrotia	Vol.-8 Issue-4	2019	International Journal of Engineering and Advanced Technology (IJEAT)
49	Mechanical	Dr. Ashish Selokar	Shivam Mahajan, K. Aditya, Himanshu Gupta, Kunal Singh	Comprehensive review on hybrid vehicle Powertrain	Shivam Mahajan, K. Aditya, Himanshu Gupta, Kunal Singh, Jai Prakash Sharma	2019, 493-501	2019	Lecture Notes in Mechanical Engineering
50	CST	Dr. Vinay Kumar Jain	Anurag Rawal, Gaurav Chhikara, Hitesh Khanna	Cryptography Algorithm	Gaganjot Kaur, Anurag Rawal, Gaurav Chhikara, Hitesh Khanna	Vol. 4, Issue 1, Page no. 31-38	2019	Journal of Analog and Digital Communications
51	Mechanical	Dr. Anil Kumar Singh Bankoti	Abdul Ahad, Abhinav Chawla, Dinesh Kashyap, Vinay Prabhakar	Evaluation of tensile properties of hot rolled carbon steel using finite element analysis	Joginder Singh, M. R. Tyagi, Abdul Ahad, Abhinav Chawla, Dinesh Kashyap, Vinay	2019, 395-403	2019	Lecture Notes in Mechanical Engineering

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52	Physics	-	Charu Sharma	Interaction and damage of nucleobases of DNA and RNA caused by silicon nanoparticle and crystalline silica: First principles study Computational and Theoretical Chemistry	Haider Abbas, Deepti Maikhuri, Charu Sharma	Vol. 1154,15 April 2019, Pages 26-30	2019	Computational and Theoretical Chemistry
53	Mechanical	Dr. Anil Kumar Singh Bankoti	Ravi Dutt Sharma, Dheeraj Sharma, Kartik Awasthi	Power Management and Energy Optimization in Hybrid Electric Vehicle-A Review	Ravi Dutt Sharma, Dheeraj Sharma, Kartik Awasthi, Nazish Ahmad Shamsi	2019, 585-594	2019	Lecture Notes in Mechanical Engineering (Advances in Fluid and Thermal Engineering)
54	Mechanical	Dr. Anil Kumar Singh Bankoti	Rahul Sharma, Sumit Kumar Shaw, Somesh S, Mukul Bhatia	Prediction of Universal Joint Behaviour under Small axial Loading using FEM	Rahul Sharma, Sumit Kumar Shaw, Somesh S, Mukul Bhatia, Joginder Singh, Jai Prakash Sharma	12, 9, 2019, 1-7	2019	Indian Journal of Science and Technology
55	Mechanical	Dr. Anil Kumar Singh Bankoti	Gurpreet Singh, Ravi Dutt Sharma	Design, Analysis and Manufacturing of Front Sprocket from Carbon Fiber Reinforced Plastics for a	Joginder Singh, M.R. Tyagi, Gurpreet Singh, Ravi Dutt Sharma	1240 (2019) 012071, 1-10	2019	Journal of Physics: Conference Series

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56	Mechanical	Dr. Anil Kumar Singh Bankoti & Mr. Prashant Bhardwaj	Harpreet Singh, Himanshu Rawat, Mayank Sadhra	Cutting Tool Prognostic using Markov Model	Harpreet Singh, Himanshu Rawat, Mayank Sadhra, Prashant Bharadwaj	11, 45, 2018, 1-4	2018	Indian Journal of Science and Technology
57	CST	Dr. Sachin Kansal	Jagmohan Chopra, Rupal, Nilender, Gunjan Chandwani, Rupal Gupta, Nilender Nath	Middleware Integration	Jagmohan Chopra, Rupal, Nilender, Gunjan Chandwani, Rupal Gupta, Nilender Nath, Gunjan Chandwani	Vol.3, Issue 3, Page 10-12	2018	Recent Trends in Computer Science and Software Technology
58	CST	Dr. Sachin Kansal	Pawan Gupta, Shivam Kalia, Vaibhav Hooda	Augmented Reality	Pawan Gupta, Shivam Kalia, Vaibhav Hooda, Gunjan Chandwani	Vol.3, Issue 3, Nov 2018,	2018	Journal of Software Engineering & Software Testing
59	CST	Ms. Urmila Pilonia	Tridev Nath Tripath, Rajeev Singh	Scrutinizing Security	Ms. Urmila, Tridev Nath Tripath, Rajeev Singh	Volume 8, Issue XI	2018	International Journal of Management , Technology and Engineering
60	CST	-	Apurva Sehgal, Kanika Khurana, Cherry Singh	Mining Big Data: Future Forecast of Weather	Apurva Sehgal, Kanika Khurana, Ankur Kr Aggarwal,	Vol. 3, Oct 2018, pp. 10-17	2018	Journal of Data Mining and Management

					Cherry Singh			
61	CST	Dr. Vinay Kumar Jain	Kaustubh, Madhur Ahuja, Vikash Singh	A Review Study on Security and its Challenges in Cloud Computing	Gaganjot Kaur, Kaustubh, Madhur Ahuja, Vikash Singh	Vol. 3, Issue 3, Page no. 7-12	2018	Journal of Computer Based Parallel Programming
62	CST	Dr. Vinay Kumar Jain	Aishwarya Nair, Sakshi Arora, Virender Kadian	Women Safety device based on Internet of things (IOT)	Aishwarya Nair, Sakshi Arora, Virender Kadian, Urmi Ila Paliana	Vol.5, Issue 8,	2018	Journal of Emerging Technologies and Innovative Research
63	CST	Mr. Anup Singh	Arpita Goel, Shivangi Aggarwal,	A Review on current trends in image fusion	Arpita Goel, Shivangi Aggarwal, Anup Singh	Vol.5, Issue-5, Page-40-44, 2018	2018	International Journal of current Engineering and Scientific Research
64	CST	Dr. Vinay Kumar Jain	Kaustubh, Madhur Ahuja, Vikash Singh	A Study on Load Leveling Algorithms in Cloud Computing	Gaganjot Kaur, Kaustubh, Madhur Ahuja, Vikash Singh	Vol.-3, Issue-3	2018	Journal of Computer Based Parallel Programming
65	CST	Dr. Vinay Kumar Jain	Anurag Rawal, Gaurav Chhikara, Hitesh Khanna	Cryptography: Symmetric vs Asymmetric Encryption	Gaganjot Kaur, Anurag Rawal, Gaurav Chhikara, Hitesh Khanna	Vol. 4, Issue 1, Page no. 31-38	2018	Journal of Analog and Digital Communications