



AUTOMATANEWSLETTER

Department of Mechatronics Engineering,
School of Engineering
Faculty of Science Technology and Architecture

April.-June. 2025 Issue Vol: 13

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The HoD's Message Dr. Prabhat Ranjan



I'm delighted to contribute a few sentences to the department bulletin. Keeping up with the latest advancements is crucial because the world of current technology is changing so swiftly. Among other extracurricular and co-curricular activities, the department organizes conferences, webinars, seminars, faculty development programs, and other events to educate students about current and future technical developments. The department has also been commended for the range of activities that its instructors and students engage in. In the future, I hope to see more events like this for the department's overall development.

Dr. Prabhat Ranjan

Vision

Global excellence in Mechatronics domain to provide comprehensive solution for industrial advancements and societal challenges.

Mission

M1: Impart value-based education to fulfil industrial needs ny nuturing inter- disciplinary knowledge for enhancing academic and professional excellence.

M2: Provide with state-of-art academic and research facalities, fostering humanistic values and peer teaching-learning approach for enhancing employability and entrepreneurship skills.

M3: Encourage inter-disciplinary approach to foster research and innovatice ideas for smart Mechatronics system by expiential learning.

M4: Provide opportunity to exhibit and enhance life long learning skills with ethical values and social relevance.

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FACULTY MEMBERS







The Department of Mechatronics Engineering, in collaboration with E-Cell, MUJ, successfully hosted the Project Expo 2025 at Manipal University Jaipur. This prestigious event showcased a vibrant display of innovation, creativity, and technical brilliance through a wide spectrum of student-developed projects encompassing automation, robotics, AI/ML, IoRT, and sustainable engineering solutions.

Journal Publications

S. No	TITLE	
1	Shrivastava, D. R., & Siddiqui, S. A. (2025). A unified strategy for real- time event detection for enhanced power system protection through robust situational awareness. Measurement, 253, 117590.	
2	Sharma, A., Shrivas, N. V., & Sharma, I. (2025). An adaptive segmentation scheme based on recurring action potentials for sEMG controlled movement decoding. Physical and Engineering Sciences in Medicine, 1-21.	
3	Agrawal, A., Siddiqui, S. A., Soni, A., & Sharma, G. D. (2025). Fabrication strategies, developments and challenges in perovskite solar cells. Physica Scripta, 100(6), 062001.	

Conference Publications

S. No	TITLE	Faculty Member
1	Multi-Correlation Analysis of Optimizing the Electrospinning Parameters for Nanofiber Synthesis using Statistical Coefficient Methods" at the International Conference on Advanced Materials Synthesis, Characterisation, and Applications	Dr. Princy Randhawa

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S. No	TITLE	Faculty Member
1	Multi-Correlation Analysis of Optimizing the Electrospinning Parameters for Nanofiber Synthesis using Statistical Coefficient Methods" at the International Conference on Advanced Materials Synthesis, Characterisation, and Applications	Dr. Princy Randhawa
2	Pandey, K. K., Kumar, U., & Kumar, R. (2025, January). Design and Development of an Autonomous Mobile Robot for Industrial Applications. In 2025 International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI) (pp. 1310-1314). IEEE.	Dr. KK Pandey
3	Pandey, K. K., & Singh, S. (2025, January). Multi-Attribute Optimization of Hot Machining Using Grey Relational Analysis and PCA Technique–A Hybrid Approach. In 2025 International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI) (pp. 1304-1309). IEEE.	Dr. KK Pandey
4	Kumawat, A. K. (2025, January). Real-Time Control of an Industrial Collaborative Robot UR5e Using ROS: An Experimental. In 2025 International Conference on Next Generation Communication & Information Processing (INCIP) (pp. 1008-1011). IEEE.	Dr. Ashok Kumawat
5	Biomolecular Structural Rearrangement Analysis Of Fgfs Using Molecular Dynamics Simulations	Dr. KK Pandey

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Department Achievements











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Faculty with Additional Responsibility at MUJ level



Dr. Ajay Kumar Professor & Dean (Graduate Outcome)



Dr. Shahbaz Ahmad Siddiqui Professor & Deputy Director (Directorate of Research)

