

**Maharaja Surajmal Institute of Technology, New Delhi**  
**Electrical and Electronics Engineering Department**

A Report on

**“AI-based motion control”**

Department of Electrical and Electronics Engineering in association with IEEE PES Chapter MSIT organized an expert lecture on “AI-based motion control” by Prof. Purna Gaur, Director West Campus, NSUT, New Delhi, and Chair, IEEE Delhi Section on April 23, 2024. In this lecture application of AI in different fields like Drones, bigger data precise control of motors, CNC machines, Robotics, AI-powered assistants, Autonomous Vehicles, Travel, and Transport, Automotive Industry, etc. was discussed. Different research areas in AI have been discussed. The application and advantages of (PMSM) Permanent magnet synchronous motor in mobility have been discussed.



Throughout the session, Dr. Purna Gaur skillfully shared her experiences and insights of AI, not only captivating the audience but also imparting invaluable knowledge that enriched the learning experience for all participants. She received applause throughout as she shared her inspiring journey filled with numerous achievements. This interactive lecture was deemed a great success

and was attended by all members of the IEEE PES MSIT Student Chapter, several IEEE MSIT Execom members, as well as MSIT students. Dr. Jyoti Jain, the Chapter Advisor for IEEE PES MSIT, Prof. Archana Balyan, Director MSIT, Prof. Meena Tushir, HOD EEE and Dr. Anupama Kaushik, Branch Counselor, IEEE MSIT were also present during the event.

