



राष्ट्रीय प्रौद्योगिकी संस्थान पटना/National Institute of Technology Patna

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To whomsoever it may concern

I am extremely happy to write this recommendation letter in favor of **Nisha Kumari**, an applicant for IIT Kharagpur and University of Manchester joint doctoral program. Presently, Nisha is enrolled in M.Tech (Control Systems) course at National Institute of Technology (NIT) Patna and working with my research group for her dissertation entitled “Optimal Type-2 Fuzzy ID+PD Control Strategy for Deregulated Three Area Power System Using African Vultures Optimization Algorithm”. She is known to me for the last two years as I have taught her two courses (Virtual instrumentation using LabVIEW and Advanced Control System Engineering Lab-1). As a supervisor/mentor, I find her performance during dissertation work more than satisfactory. I have co-Authored a full-length journal article entitled “Ameliorating oscillation control with optimal type-2 fuzzy-based controller in deregulated hybrid power system integrating renewables” which is presently submitted to the SCI-E indexed ‘International Journal of Electrical Power and Energy Systems’ published by Elsevier. Moreover, her collaborative work entitled “EO Optimized Novel Type-2 Fuzzy ID-P Controller for LFC of Deregulated Multi-area Power System with Robust Stability Analysis” was recently presented in the second International Conference on Power, Control and Computing Technologies (ICPC²T –2022) hosted by NIT Raipur.

She used to be very active, attentive, and enthusiastic during my classes and keen to complete all assigned tasks within the stipulated deadline. I have seen her as an extremely honest, self-motivated, and hardworking student. She has the attitude of continuous learning and growing thereby keeping himself updated with the latest technologies. Since Nisha has the ability to grasp new concepts with ease, I feel that she will be an asset for any group with whom she will be working in the future. She used to mingle well with students from every other corner of India as well as abroad. Moreover, she used to constantly discuss academic assignments and help them in their studies. I am sure that she has all the qualities of a good team player.

Based on my observation, I would like to highly recommend her candidature for higher studies at your esteemed institution. I wish her all the best in all his future endeavors.

(Dr. G. Lloyds Raja)

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