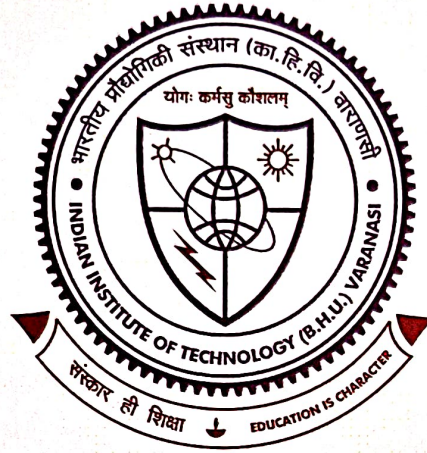


Intelligent Computing Techniques for Smart Building Energy Management



Thesis submitted in partial fulfillment for the
Award of Degree

Doctor of Philosophy

By

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CERTIFICATE

It is certified that the work contained in this thesis entitled "Intelligent Computing Techniques for Smart Building Energy Management" submitted by "SANDEEP KUMAR GAUTAM" (Roll No.: 19071005) has been carried out under my supervision and that it has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and State-of-the-Art (SOTA) for the award of Ph.D. Degree.

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I, SANDEEP KUMAR GAUTAM, certify that the work embodied in this thesis is my own bonafide work and carried out by me under the supervision of Dr. VINAYAK SRIVASTAVA from JULY-2019 to JUNE-2025, at the DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, Indian Institute of Technology (BHU) Varanasi. The matter embodied in this thesis has not been submitted for the award of any other degree/diploma. I declare that I have faithfully acknowledged and given credits to the research workers wherever their works have been cited in my work in this thesis. I further declare that I have not willfully lifted up any other's work, paragraphs, text, data, results, etc., reported in journals, books, magazines, reports, dissertations, theses, etc., or available on websites and have not included them in this thesis and have not cited as my own work.

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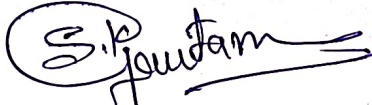
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