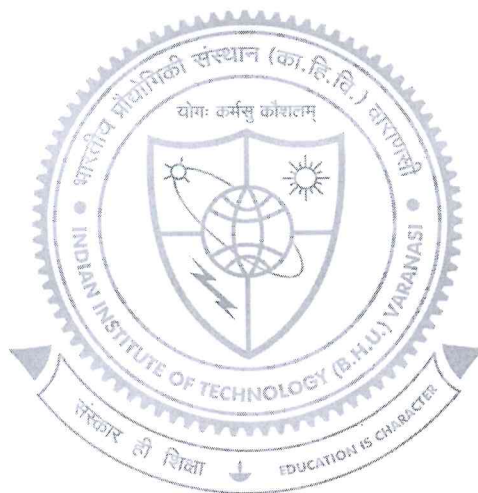


Investigation of anomalous Hall transport and related phenomena in some Mn-based intermetallic compounds



Thesis submitted in partial fulfillment

for the Award of

DOCTOR OF PHILOSOPHY

in

MATERIALS SCIENCE

by

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It is certified that the work contained in the thesis titled **Investigation of anomalous Hall transport and related phenomena in some Mn-based intermetallic compounds** by **Nisha Shahi** has been carried out under my supervision, and that this work 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 SOTA for the award of **Doctor of Philosophy**.



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DECLARATION BY THE CANDIDATE

I, **Nisha Shahi**, certify that the work embodied in this thesis is my own bona fide work and carried out by me under the supervision of **Dr. Sanjay Singh** from **March 2018** to **November 2023**, at the **School of Materials Science and Technology**, Indian Institute of Technology (Banaras Hindu University), 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 copied any other's work, paragraphs, text, data, results, *etc.*, reported in journals, books, magazines, reports dissertations, theses, *etc.*, or available at websites and have not included them in this thesis and have not cited as my own work.

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Place: Varanasi, India

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It is certified that the above statement made by the student is correct to the best of my knowledge.

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