

DEDICATION

To

Lord Shree *Jagannath*

**अहं सर्वस्य प्रभवो मत्तः सर्वं प्रवर्तते ।
इति मत्वा भजन्ते मां बुधा भावसमन्विताः ॥**

Bhagavad-Gita, Chapter 10.8

I am the source of all spiritual and material worlds. Everything emanates from Me. The wise who perfectly know this engage in My devotional service and worship Me with all their hearts.

CERTIFICATE

It is certified that the work contained in the thesis titled “**Structural health monitoring using wavelets**” by **Ambuj Sharma** has been carried out under our 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 Ph.D. Degree.

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DECLARATION BY THE CANDIDATE

I, **Ambuj Sharma**, certify that the work embodied in this thesis is my own bona fide work and carried out by me under the supervisions of **Prof. Sandeep Kumar** and **Dr. Amit Tyagi** from September 2012 to January 2018, at the Department of Mechanical 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 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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It is certified that the above statement made by the student is correct to the best of our knowledge.

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