

CERTIFICATE

This is to certify that the work presented in the thesis entitled "*Study of Interatomic Interactions, Dynamics and Thermodynamics in Transition Metals and its alloys*", which is being submitted by **Patel Margi Kiranbhai** (Ph.D. Reg. No. FOTE/946 Date: 02/11/2017), Applied Physics Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda for the award of degree of **Doctor of Philosophy in Applied Physics** has been carried out by her under our supervision and guidance. The matter presented in this thesis is original and has not been submitted for the award of any other degree or diploma.

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