

## ***DECLARATION***

I, hereby declare that the research work presented in thesis entitled "*Study of Inter-atomic Interactions, Dynamics and Thermodynamics in Transition Metals and its alloys*" has been carried out by me in the Applied Physics Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara under the supervision of Prof. Arun Pratap and co-supervision of Prof. Kirit N. Lad. I declare that the results embodied in this thesis have not been submitted for the award of any Degree or Diploma to this University or any other University or Institute.

Date:

**Margi K. Patel**

Research Scholar