

DECLARATION

I. **RAGHAVENDRA G. S.**, hereby declare that the thesis entitled, “**Intelligent Ant Systems and Application to Train Scheduling Problem**” submitted to Birla Institute of Technology and Science, Pilani in partial fulfillment of the requirements for the award of the degree of Doctor of Philosophy is a record of original research work done by me during the period 2006-2012 under the supervision and guidance of **Prof. Prasanna Kumar N.**, Associate Professor, Department of Mathematics, BITS, Pilani K K Birla Goa Campus, and it has not formed the basis for the award of any degree or diploma or any other course to any candidate of any academic institutions in India or abroad.

Raghavendra G. S.