



C E R T I F I C A T E

This is to certify that the thesis entitled “ **Mathematical Analysis of Hopfield Networks and Neural Networks Implementation of Steering Controls for Semilinear Systems** ” which is submitted by **Purnima Pandit** for the degree of DOCTOR OF PHILOSOPHY in Applied Mathematics has been carried out under my supervision and guidance.



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This Thesis titled “ **Mathematical Analysis of Hopfield Networks and Neural Networks Implementation of Steering Controls for Semilinear Systems** ” submitted by **Purnima Pandit** in Applied Mathematics is hereby approved for the degree of **DOCTOR OF PHILOSOPHY**.

