

**STUDIES ON ELECTRICAL, MAGNETIC AND MICROWAVE PROPERTIES
OF $[y] \text{Ni}_{1-x}\text{Cd}_x \text{Fe}_2\text{O}_4 + [1-y] (\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3)$ COMPOSITES**

A THESIS SUBMITTED TO

SHIVAJI UNIVERSITY, KOLHAPUR

FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN

PHYSICS

UNDER THE FACULTY OF SCIENCE

BY

Mr. MAHESH BABASO SHELAR

(M.Sc)

UNDER THE GUIDANCE

OF

Dr. Vijaya Puri

(M.Sc. Ph.D)

THICK AND THIN FILM DEVICE LAB

DEPARTMENT OF PHYSICS,

SHIVAJI UNIVERSITY,

KOLHAPUR - 416 004

INDIA (M.S.)

June - 2011