## **C**ERTIFICATE

This is to certify that the dissertation entitled "DESIGN, CONSTRUCTION OF ACTIVE FILTERS AND TO STUDY THEIR PERFORMANCE CHARACTERISTICS USING CIRCUIT SIMULATOR" which is being submitted herewith for the award of Degree of Master of Philosophy in Electronics of the Shivaji University, Kolhapur is the result of the original work completed by Mr. D. R. Dixit under my supervision and guidance and to the best of my knowledge and belief the work embodied in this dissertation has not formed earlier the basis for the award of any degree or similar title of this or any other University or examining body.

Place: Kolhapur.

Date: 27 June, 2003

Research Guide

(Dr. C. S. Shalgaonkar)
Department of Electronics,
Shivaji University,

Kolhapur- 416 004.

De Head,

Department of Electronics, Shared University, KOLHAPUR.