

**SPECTROSCOPIC AND STRUCTURAL STUDIES OF
SUBSTITUTED POLYACETYLENES AND NONLINEAR
OPTICAL MATERIALS**

A THESIS
SUBMITTED IN FULFILLMENTS OF THE REQUIRMENTS
FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN

PHYSICS

BY

SAPNA PATHAK

TO THE



JAYPEE UNIVERSITY OF ENGINEERING AND TECHNOLOGY

GUNA, M.P. (INDIA)

June, 2010