

# LIQUID CRYSTALS AND LIQUID CRYSTALLINE POLYMERS, SYNTHESIS AND EVALUATION OF THEIR PROPERTIES

A THESIS  
SUBMITTED TO  
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA  
FOR THE DEGREE OF  
**DOCTOR OF PHILOSOPHY**  
**( APPLIED CHEMISTRY )**

By :  
**RANJANA RAMNARAYAN NIGAM**

*APPLIED CHEMISTRY DEPARTMENT  
FACULTY OF TECHNOLOGY AND ENGINEERING  
M. S. UNIVERSITY OF BARODA  
BARODA-390001 ( INDIA )*

APRIL, 1989