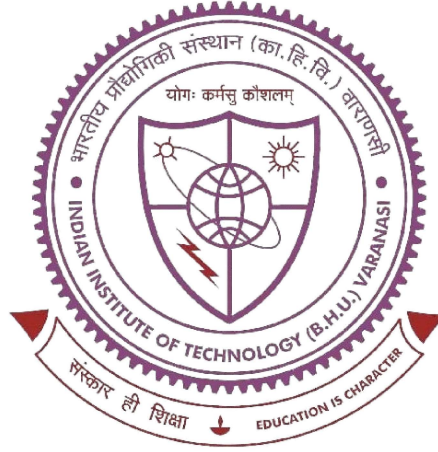

**On Cyclic Codes and Their Generalizations over
Some Finite Non-Chain Rings and Construction
of Quantum and LCD Codes**



*The thesis submitted in partial fulfillment
for the Award of Degree*

DOCTOR OF PHILOSOPHY

by

Pradeep Rai

DEPARTMENT OF MATHEMATICAL SCIENCES

INDIAN INSTITUTE OF TECHNOLOGY

(BANARAS HINDU UNIVERSITY)

VARANASI -221005

Roll No: 19121005

December 2024