

**STUDY OF OPTICAL, STRUCTURAL AND
DIELECTRIC PROPERTIES OF SWIFT HEAVY
ION IRRADIATED BIODEGRADABLE
POLYMERIC MATERIALS**

*A THESIS SUBMITTED
TO*
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY

IN
PHYSICS

BY
GNANSAGAR B. PATEL

UNDER THE GUIDANCE OF
Prof. N. L. SINGH

**DEPARTMENT OF PHYSICS,
FACULTY OF SCIENCE,
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA,
VADODARA-390002, GUJARAT, INDIA
NOVEMBER-2020**