

**DEVELOPMENT AND ELECTRICAL CHARACTERIZATION
OF HYDROXYAPATITE BASED PIEZOBIOCOMPOSITE AS
WELL AS FUNCTIONALLY GRADED MATERIALS**



Thesis submitted in partial fulfillment

for the Award of Degree

Doctor of Philosophy

by

ABHINAV SAXENA

**DEPARTMENT OF CERAMIC ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
(BANARAS HINDU UNIVERSITY)
VARANASI-221005.**

16031001

2020