

# INVESTIGATION OF MAGNETIC ION DOPING ON STRUCTURE AND MAGNETISM IN SOME DILUTE ALLOYS

A Thesis submitted in fulfilment of the requirements to  
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

For the Degree of

*Doctor of Philosophy*

in

**Physics**

BY

**SITARA SOMAN MENON**

Reg. No. FOS/2128



Supervised by: **Dr. MITESH SARKAR**

ASSISTANT PROFESSOR

DEPARTMENT OF PHYSICS

FACULTY OF SCIENCE

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

VADODARA 390002, GUJARAT, INDIA.

**October 2023**