

Synthesis and Characterization of Epsilon-Negative Single-Phase and Composite Materials for Electromagnetic Interference Shielding Applications

Submitted in partial fulfilment for the award of degree
DOCTOR OF PHILOSOPHY

by

Tarun Katheriya

Under the Supervision of

Prof. Shail Upadhyay



Department of Physics

Indian Institute of Technology

(Banaras Hindu University)

Varanasi

Roll No. 19171506

June 2025