A thesis entitled

Chaotic Properties of Dynamical Systems

submitted to

The Maharaja Sayajirao University of Baroda

for the award of the degree

of

Doctor of Philosophy

by

Yadav Naveenkumar S.

under the guidance of

Dr. Sejal K. Shah

Assistant Professor

Department of Mathematics, Faculty of Science
The Maharaja Sayajirao University of Baroda
Vadodara 390002, Gujarat

July 2024