

# **Study of Compact Objects with Relativistic Solutions in Different Gravitational Theories**



**समानो मन्त्र समितिः समानी**

*This thesis is submitted for the degree of*

**Doctor of Philosophy**

*by*

**Sagar Dey**

*Under the supervision of*

**Prof. Bikash Chandra Paul**

*DEPARTMENT OF PHYSICS*  
**NORTH BENGAL UNIVERSITY**  
**SILIGURI, Dist: DARJEELING**  
**WEST BENGAL, Pin - 734013, INDIA**

REGISTRATION NO.  
Ph.D/Phy.(1304)/968/R-2019

YEAR OF SUBMISSION  
2022

*Dedicated to my loving late grandmother ("Maa") and my parents . . .*