

**DISSERTATION REPORT**

**“DIFFERENTIAL EQUATION: DYNAMICAL SYSTEM”**

**Submitted in partial fulfilment of the requirements for the award of the degree of**

**MASTER OF SCIENCE**

**FROM**

**BANGALORE UNIVERSITY**



**BY**

**SANGEETHA A**

**REG NO: P03MB21S0013**

**UNDER THE GUIDANCE OF**

**PROF: ROOPA J**



**ST. FRANCIS DE SALES COLLEGE**

**Electronic city, Bengaluru-560100**

**Batch 2021-2023**



# ST. FRANCIS DE SALES COLLEGE

A FRANSALIAN INSTITUTE OF HIGHER EDUCATION

NAAC ACCREDITED • PERMANENTLY AFFILIATED TO BANGALORE UNIVERSITY • AICTE APPROVED • RECOGNISED UNDER SECTION 2(F) & 12 (B) OF THE UGC ACT • ISO 9001:2015 CERTIFIED

## CERTIFICATE OF ORIGINALITY

This is to certify that, this master dissertation titled “**DIFFERENTIAL EQUATION : DYNAMICAL SYSTEM**” submitted by **SANGEETHA A** Register No. **P03MB21S0013** in partial fulfilment for the award of Master Degree (M.Sc) in Mathematics of St Francis de sales college affiliated to Bangalore University , is based on the research work carried out under the guidance and supervision of Prof. Roopa J , during the fourth semester in the academic year 2022-2023

This dissertation (Master) has not been submitted for the award of any degree, diploma, fellowship or other title. This is to confirm the originality of the work and that there is no plagiarism in any part of the dissertation.

Signature of the Guide

Prof. Roopa J

Asst. Professor

Dept. of Mathematics

St. Francis De Sales College, Bengaluru-560100

Signature of the Principal

📍 Electronics City P.O., BENGALURU - 560 100, Karnataka, INDIA

☎ (+91) 8088140679

✉ pro@sfscollege.in

🌐 www.sfscollege.in