

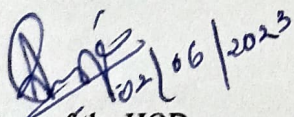
# CERTIFICATE

This is to certify that the project report entitled “**Graphs and Matrices**” is a bonafied work carried out by **Ms. Shwetha Rai M** bearing the **Reg No. 218035**, under the guidance of **Ms. Apoorva Shetty** and **Dr. Shubha V S** in the Department of PG Studies and Research in Mathematics, St. Aloysius College and St. Joseph Engineering College respectively.

The same is being submitted to the Post Graduation Department Mathematics, St. Aloysius College in partial fulfillment of the requirements for the award of Master of Science Mathematics. No part of this thesis has been presented for the award of any other degree.

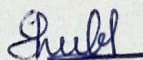
**Place : Mangaluru**

**Date : 26-05-2023**



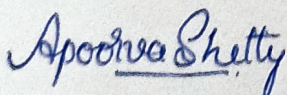
Signature of the HOD

**MS. ANUPRIYA SHETTY**



Signature of the Project Guide

**Dr. SHUBHA V S**



Signature of the Internal Guide

**MS. APOORVA SHETTY**

