

**Finding 4x4 Determinant using Fortran Programming & Microsoft Excel & Matrix
Representation of T_d Point Group Using Microsoft Excel & It's Group Multiplication
Table.**

A Dissertation Report for
CGO 500 - Dissertation

Credits: 08

Submitted in partial fulfilment of Master's Degree
M.Sc. in Physical Chemistry

by

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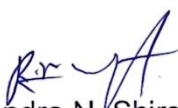
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COMPLETION CERTIFICATE

This is to certify that the dissertation report "**Finding 4x4 Determinant using Fortran Programming & Microsoft Excel & Matrix Representation of T_d Point Group Using Microsoft Excel & It's Group Multiplication Table**" is bonafide work carried out by Ms. Saloni Sandeep Naik under my supervision in partial fulfilment of the requirements for the award of the degree of Master of Science in the Discipline Physical Chemistry at the School of Chemical Sciences, Goa University.



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Date: 08/05/2023

Place: Goa University



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DECLARATION BY STUDENT

I hereby declare that the data presented in this Dissertation report entitled, "**Finding 4x4 Determinant using Fortran Programming & Microsoft Excel & Matrix Representation of T_d Point Group Using Microsoft Excel & It's Group Multiplication Table**" is based on the results of investigations carried out by me in Physical Chemistry Department at the School of Chemical Sciences, Goa University under the Supervision of Dr. Rajendra N. Shirsat and the same has not been submitted elsewhere for the award of a degree or diploma by me. Further, I understand that Goa University or its authorities will be not be responsible for the correctness of observations / experimental or other findings given the dissertation.

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Place: Goa University