Synthesis and Characterisation of $NiCr_xFe_{2-x}O_4$ (x=0, 0.1, 0.3, 0.5, 0.7, 0.9, 1) by combustion method and study of its solid-state properties.

A Dissertation for Course

Code and Course Title: CHC-651 Dissertation

Credits:16

Submitted in partial fulfilment of Masters's Degree

M.Sc. in Inorganic Chemistry

by

RAVINA STEFY VAZ

22P0490050

416-964-159-346

201905876

Under the Supervision of

PROF. VIDHYADATTA M. SHET VERENKAR

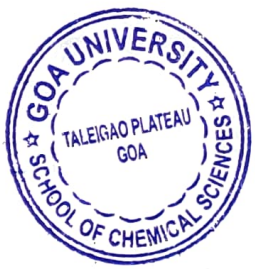
School of Chemical Sciences

Inorganic Chemistry

GOA UNIVERSITY

403206

APRIL 2024



Seal of the School

Examined by:

30/4/2024 30/04/2024

30/04/2024

30/04/2024

30/04/2024

30/04/2024

DECLARATION

I hereby declare that the data presented in this Dissertation report entitled, "Synthesis and Characterisation of $NiCr_xFe_{2-x}O_4$ (x=0, 0.1, 0.3, 0.5, 0.7, 0.9, 1) by combustion method and study of its solid-state properties", is based on the results of investigations carried out by me in the Inorganic Chemistry at the School of chemical sciences, Goa University under the supervision of Prof. Vidhyadatta M. Shet Verenkar 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 not be responsible for the correctness of experimental or other findings given the dissertation.

I hereby authorize the University authorities to upload this dissertation on the dissertation repository or anywhere else as the UGC regulations demand and make it available to any one as needed.

Miss. Ravina Stefy Vaz

22PO490050

Inorganic Chemistry

School of Chemical Sciences

Date: 19/04/2024

Place: GOA UNIVERSITY

CERTIFICATE

This is to certify that the dissertation report "Synthesis and Characterisation of $NiCr_xFe_{2-x}O_4$ (x=0, 0.1, 0.3, 0.5, 0.7, 0.9, 1) by combustion method and study of its solid-state properties", is a bonafide work carried out by Ms. Ravina Stefy Vaz under my supervision in partial fulfilment of the requirements for the award of the degree of Masters in Science in Chemistry in the Discipline Inorganic Chemistry at the School of Chemical Sciences, Goa University.

Prof. Vidhyadatta M. Shet Verenkar

Dean,

School of Chemical Sciences

Date: 19/04/2024

Place: Goa University

Dean
School of Chemical Sciences
GOA UNIVERSITY

Prof. Vidhyadatta M. Shet Verenkar

Professor, Inorganic Chemistry

Date: 19/04/2024

GOA UNIVERSITY
TALEIGAO PLATEAU
GOA
SCHOOL OF CHEMICAL SCIENCES

School stamp