

**Synthesis and Characterisation of**  
 **$\text{CoFe}_{2-x}\text{Al}_x\text{O}_4$  ( $x=0, 0.2, 0.4, 0.6, 0.8, 1.0$ )**  
**by combustion method and study of its solid-state properties.**

A Dissertation Report for  
Course code and Course Title: CGO500 Dissertation  
Credits:08

Submitted in partial fulfilment of Masters's Degree  
M.Sc. in Inorganic Chemistry

by

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Under the Supervision of

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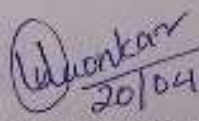
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### DECLARATION

I hereby declare that the data presented in this Dissertation report entitled, "Synthesis and Characterisation of  $\text{CoFe}_{2-x}\text{Al}_x\text{O}_4$  ( $x=0.0,0.2,0.4,0.6,0.8,1.0$ ) 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.

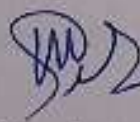
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Date: 20<sup>th</sup> April 2023  
Place: Goa University

  
20/04/23  
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### CERTIFICATE

This is to certify that the dissertation report "Synthesis and Characterisation of  $\text{CoFe}_{2-x}\text{Al}_x\text{O}_4$  ( $x=0.0,0.2,0.4,0.6,0.8,1.0$ ) by combustion method and study of its solid-state properties", is a bonafide work carried out by Ms. Upma Ulhas Gaonkar 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.

 20/04/2023

Prof. Vidhyadatta M. Shet Verenkar  
Dean,  
School of Chemical Sciences  
Date: 20<sup>th</sup> April 2023  
Place: Goa University

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