



**CERTIFICATE**

This is to certify that the present work entitled "SYNTHESIS AND CHARACTERIZATION FLAXSEED EXTRACT MEDIATED MANGANESE NANOFERRITES" is a bonafide work carried out by **Amisha Gahlot**, student of **M.Sc. (Hons.) Chemistry, Sant Baba Bhag Singh University, Jalandhar** under my guidance towards the partial fulfilment of the degree in **M.Sc. (Hons.) Chemistry** during the academic year **2023-2024**. This work has not been published or submitted elsewhere for the award of any degree.

Date: 28/6/2024

Place: Jalandhar

Signature of supervisor

*Nisha Sharma*  
28/6/2024

**Dr. Nisha Sharma**

Professor (Chemistry)

Department of Physical Sciences

Sant Baba Bhag Singh University

Jalandhar



SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR

## CERTIFICATE

This certifies that, under my supervision, Ms. GURPREET KAUR, an M.Sc.(Honors) Chemistry student, Department of Physical Sciences, conducted the work presented in the project "*Synthesis and Characterization of nano-biosurfactant using Olea Europea and its applications in pharmaceutical industry*" in order to fulfill the requirements for the degree during the 2023–2024 session at Sant Baba Bhag Singh University, Jalandhar, Punjab. To the best of my knowledge, no university or institute has previously received this work for a degree.

Date: 26-6-24

Dr. Nizamul Haque Ansari

(Co-supervisor)

Professor (Chemistry)

Dr. Mithu Maiti Jana

(Supervisor)

Associate Professor (Chemistry)

Department of Physical Sciences  
Sant Baba Bhag Singh University

Khiala, Jalandhar



Sant Baba Bhag Singh University, PUNJAB

(Established vide Sant Baba Bhag Singh University Act 2014)

## CERTIFICATE

This is to certify that the work presented in this project entitled “**Synthesis of Nanosurfactant by using Cocos Nucifera and its application in agriculture**”. Is the own work of Ms. **SHAYNA DADWAL** student of M.Sc.(Honours) Chemistry conducted in the **Department of physical sciences, Sant Baba Bhag Singh University, Jalandhar, Punjab** under my supervision towards the fulfilment of the degree of M.SC. (Honours) Chemistry during session 2022-2024. This work has not submitted earlier to any university/institute for any degree to the best of my knowledge.

Date: 25-06-2024

**Dr. Mithu Maiti Jana**

Co-supervisor

Assistant professor (chemistry)

**Dr. Nizamul Haque Ansari**

(Supervisor)

Professor (Chemistry)

Department of physical sciences  
Sant Baba Bhag Singh University  
Khiala, Jalandhar