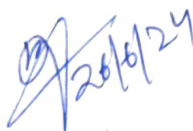


## CERTIFICATE

This is to certify that the present work embodied in the project entitled "*Investigation of Physicochemical Properties of Zirconium Oxide Nanoparticle through Green Synthesis with Ocimum Sanctum Leaf Extract*" is the own work of **Vanshita Rana**, student of M.Sc. (Hons.) Physics, Department of Physical Sciences, Sant Baba Bhag Singh University under my supervision and co-supervision of Dr. Mithu Maiti Jana towards the partial fulfilment of the award of degree in M.Sc(Hons.) Physics during the academic year 2023-2024. This research work has not been submitted earlier to any university/institution for any research degree to the best of my knowledge.



**Co-supervisor**

**Dr. Mithu Maiti Jana**

**Associate Professor (Chemistry)**

**Department of Physical Sciences**



**Supervisor**

**Dr. Honey Sharma**

**Associate Professor (Physics)**

**Department of Physical Sciences**

**Date:** 27-6-24

**Place:** Jalandhar

## CERTIFICATE

This is to certify that the present work presented in this project entitled "**Green Synthesis Of Zinc Oxide Nanoparticles: A Sustainable Innovation For Agriculture Application**" is the own work of Jasneet Deol, student of M.Sc. (Hons.) Physics of Department of Physical Sciences, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR, PUNJAB under my supervision. This work has not been submitted earlier to any University/Institution for any research degree to the best of my knowledge.

Supervisor: 

**Dr. Ram Pal**

**Assistant Professor (Physics)**

**Department of Physical Sciences**

Date: 19-07-2024

Place: Jalandhar

## CERTIFICATE

This is to certify that the present work presented in this project entitled “**Green Synthesis of Copper Oxide Nanoparticle for Seed Germination of Dragon Fruit in Agricultural Applications**” is the own work of Kamalpreet Kaur, student of M.Sc. (Hons.) Physics of Department of Physical Sciences, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR, PUNJAB under my supervision. This work has not been submitted earlier to any University/Institution for any research degree to the best of my knowledge.

Supervisor: 

**Dr. Rampal**

**Assistant Professor (Physics)**

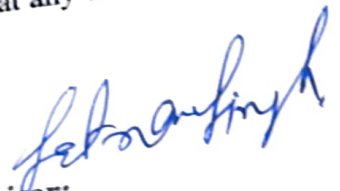
**Department of Physical Sciences**

Date: 19-07-2024

Place: Jalandhar

## CERTIFICATE

This certify that the work currently being done on the project named "Dynamics Of Hypertension Drugs Inside Lipid Bilayer Using Molecular Dynamics Simulations" is the own work of **Bawanpreet Kaur**, student of M.Sc. (Hons.) Physics of Department of Physical Sciences, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR, PUNJAB under my supervision Dr. Satnam Singh, Assistant Professor in Physics. To the best of my knowledge, this work has not been submitted for a research degree at any university or institute.



Supervisor:  
**Dr. Satnam Singh**  
Assistant Professor (Physics)  
Department of Physical Sciences

Date: 26-06-2024  
Place: Jalandhar

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**CERTIFICATE**

This is to certify that the present work embodied in the project entitled “**Molecular Dynamics Simulations: A Review**” is the own work of **Anita**, student of M.Sc. (Hons.) Physics, Department of Physical Science, **SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR**, under my supervision toward the partial fulfilment of the award of degree in M.sc (Hons.) Physics during the academic year 2023-2024. This research work has not been submitted earlier to any university /institution for any research degree to the best of my knowledge.



**Supervisor**

**Dr. Satnam Singh**

**Assistant Professor (Physics)**

**Department Of Physical Sciences**

Date: 28-06-2024

Place: Jalandhar