



# JAMIA HAMDARD

(Declared as Deemed-to-be University under section 3 of  
The UGC Act, 1956 vide Notification No. F.9-18/85-U.3  
Dated 10.5.1989 of the Government of India)

Accredited by NAAC in 'A' category

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, June, 2019

## CERTIFICATE

This is to certify that the research work embodied in this project entitled “**4-Pyridinium-Thiazolothiazole: A brief Quantum Chemical analysis of Optoelectronic Properties and Synthesis**” has been carried out by **Ms. MAHIKA GOLA** under supervision of **DR. IMRAN AHMAD KHAN** fulfils all the requirements for the award of the degree of **BACHELOR OF SCIENCE IN CHEMISTRY** from the Department of Chemistry, faculty of Science, Jamia Hamdard, New Delhi-62.

The work reported in this project is original and does not form a basis for the award of any other degree of any other university.

  
**DR. IMRAN A. KHAN**  
(Project supervisor)

  
**PROF. KALIM JAVED**  
(Professor & Head of Department)