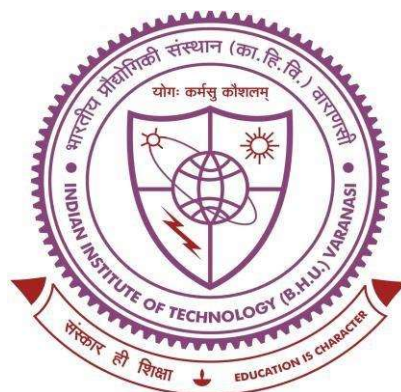


**Green Approaches for the Synthesis of Some  
Biologically Relevant Nitrogen-Containing Organic  
Compounds**



**Thesis submitted in partial fulfilment for the  
Award of Degree**

**Doctor of philosophy**

**By**

***Vishal Singh***

**DEPARTMENT OF CHEMISTRY  
INDIAN INSTITUTE OF TECHNOLOGY  
(BANARAS HINDU UNIVERSITY)  
VARANASI- 221005  
INDIA**

**Roll No. 19051008**

**Year 2024**