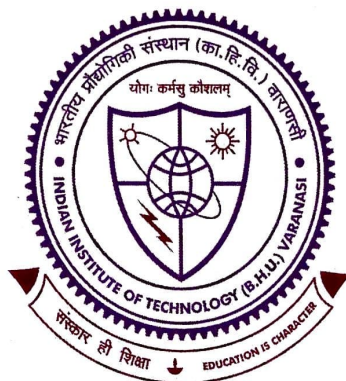


**SYNTHESIS AND CHARACTERIZATION OF
SOME NANO ADSORBENTS AND THEIR APPLICATION
IN REMOVAL OF SELECTED METALLIC POLLUTANTS
FROM AQUEOUS SOLUTIONS**



THESIS

SUBMITTED FOR THE AWARD OF THE DEGREE OF

Doctor of Philosophy
in
Chemistry

Submitted by

Deepak Gusain

Supervisor

Prof. Y. C. Sharma

Department of Chemistry

Co-supervisor

Prof. V. K. Singh

Department of Ceramic Engg.

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