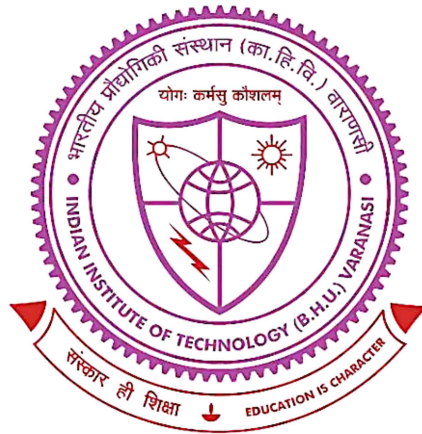


**3D self-assembled chessboard-like microstructural evolution in
CoFeMn and CoFeGaMnZn oxide spinels and NdLiTiO₃
perovskites for nano-electronics/energy devices**



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

Doctor of Philosophy

By

Avnish Singh Pal

**DEPARTMENT OF METALLURGICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
(BANARAS HINDU UNIVERSITY)
VARANASI – 221005
INDIA**

Roll No. 15141503

2022