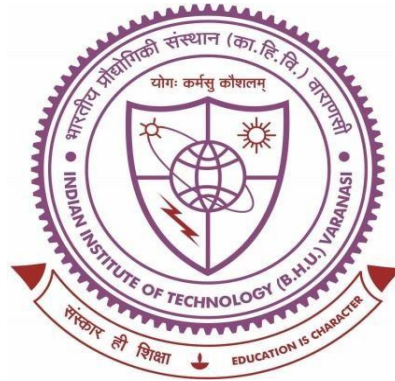


**DEVELOPMENT OF 1-D INVERSION ALGORITHM FOR  
GEOELECTRICAL DATA AND APPLICATION OF  
GEOELECTRICAL AND GIS FOR GROUNDWATER STUDY  
IN SINGRAULI COALFIELD REGION, M.P, INDIA**



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

*Doctor of Philosophy*

**By**

***Dharmendra Kumar Singh***

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

**Roll no- 15151502**

**2023**