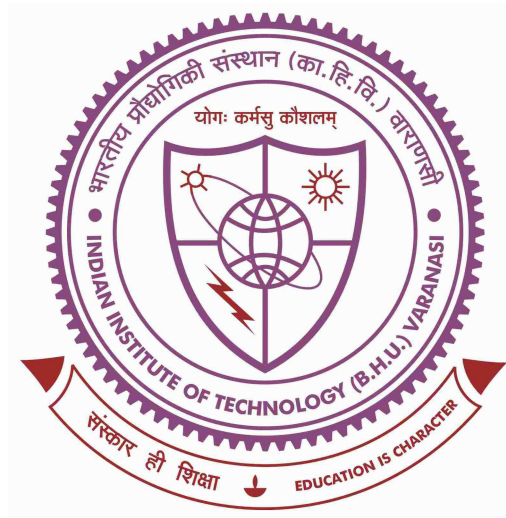


# INVESTIGATIONS ON PHOTOVOLTAIC-WIND HYBRID POWER GENERATION SYSTEM IN DC MICROGRID



Thesis submitted in partial fulfillment  
for the award of degree

**Doctor of Philosophy**

by

**Kumar Abhishek Singh**

**DEPARTMENT OF ELECTRICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY  
(BANARAS HINDU UNIVERSITY)  
VARANASI-221005**