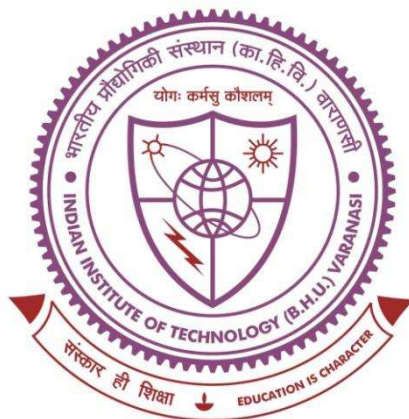


**BISTATIC SCATTEROMETER MEASUREMENTS FOR CROP
GROWTH PARAMETERS AND SOIL MOISTURE ESTIMATION
USING COMPUTATIONAL TECHNIQUES**



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

**By
*Ajeet Kumar Vishwakarma***

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