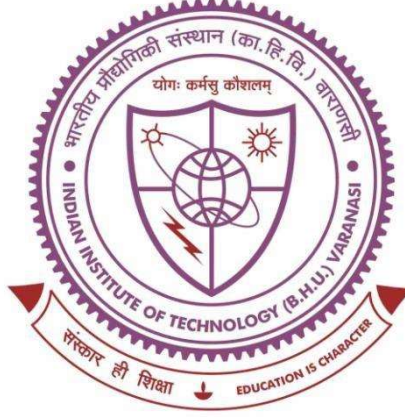


**Retrieval of soil moisture and biophysical parameter using
microwave spaceborne observations**



**A thesis submitted in fulfilment for the Award of
Degree of**

Doctor of Philosophy

By

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2022