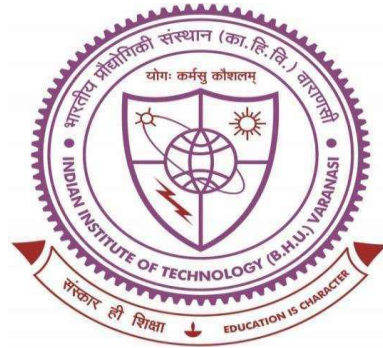


**DEVELOPMENT OF ZA/ZrB<sub>2</sub> INSITU COMPOSITE FOR  
TRIBOLOGICAL APPLICATIONS**



**Thesis submitted in partial fulfilment for the**

**Award of Degree**

*Doctor of Philosophy*

*By*

VINEET KUMAR

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

**Roll Number:** 17141013

**Year of Submission:** 2022