## MICROSTRUCTURE AND MECHANICAL BEHAVIOR OF CENTRIFUGALLY CAST FUNCTIONALLY GRADED AI-(Mg<sub>2</sub>Si)<sub>P</sub> IN-SITU METAL MATRIX COMPOSITES



Thesis submitted in partial fulfillment for the Award of Degree

**Doctor of Philosophy** 

by Subash Chandra Ram

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

Roll No: 13141005

2019

