

Design, Development and Characterization of an Electron Gun – Collector Module for a 42 GHz 200 kW Gyrotron

THESIS

SUBMITTED FOR THE AWARD OF THE DEGREE OF



**Doctor of Philosophy
IN
Electronics Engineering**

OF

**INDIAN INSTITUTE OF TECHNOLOGY
(BANARAS HINDU UNIVERSITY)**

By

SUNIL KUMAR SHARMA

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

Enrolment No. 288495

2015