

INDIAN INSTITUTE OF SPACE SCIENCE AND  
TECHNOLOGY

A DOCTORAL THESIS

---

**A Study**  
**On Subalgebras of Affine Fibrations**  
**Using Locally Nilpotent Derivations**

---

*Submitted in partial fulfillment for the award of the degree of*

**Doctor of Philosophy**

*by*

Janaki Raman BABU



Department of Mathematics  
Indian Institute of Space Science and Technology  
Valiyamala P.O.  
Thiruvananthapuram - 695 547

Submitted in September 2022. Revised in April 2023.