Green Cooperative Device-to-Device and Spectrum Sharing Systems: Modeling, Design, and Performance Analysis

THESIS

Submitted in partial fulfillment of the requirements for the degree of

DOCTOR OF PHILOSOPHY

by

Rahul Sharma

ID No. 2016PHXF0006P

Under the Supervision of

Dr. Sainath Bitragunta



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE $\begin{array}{c} \text{PILANI} \\ \text{2021} \end{array}$