BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

**CERTIFICATE** 

This is to certify that the thesis titled "Modelling and Analysis of Various Characteristics

of Interacting Populations with Discrete Delay" submitted by Mr. Ankit Kumar, ID No.

2016PHXF0412P for the award of Ph.D. of the institute embodies original work done by him

under my supervision.

Signature of the Supervisor

Name: PROF. BALRAM DUBEY

Designation: Professor

Date: 26 July 2021