

ਭੜੀ ਨੰ:

Serial/ G N<sup>o</sup> 044720

Roll No \_\_\_\_\_ 5012

Registration No. \_\_\_\_\_ PU(P)2014-1765

# Punjabi University Patiala



(Established under Punjab Act No. 35 of 1961)

## Doctor of Philosophy

Certified that \_\_\_\_\_ Anil Kumar \_\_\_\_\_, son/daughter  
of Shri \_\_\_\_\_ Dev Raj Bhasin \_\_\_\_\_ and Smt. \_\_\_\_\_ Suran Kanta \_\_\_\_\_,  
of \_\_\_\_\_ Dept. of Computer Science, Punjabi University, Patiala \_\_\_\_\_  
has this day been admitted by the Senate in the degree of

## Doctor of Philosophy

on

Performance Evaluation and Design of  
Hybrid Passive Optical Networks

in the faculty of

Computing Sciences

Given under the seal of the University.

REGISTRAR

PATIALA June 7, 2022

CHANCELLOR

VICE-CHANCELLOR