**TO WHOM IT MAY CONCERN**

This is to certify that, **ARNAV MUKHOPADHYAY *(Roll – 97/RPM/161001)*** student of ***M.Tech.* Semester-4 in Radio Physics and Electronics** with specialization in Nanoelectronics and Photonics, have successfully completed the project work entitled, “**INTENSITY AND POLARIZATION MODULATION BASED PHOTONIC TRANSCEIVER DESIGN**” in partial fulfilment of the requirements for the degree in Master of Technology in Radio Physics and Electronics from University of Calcutta, under my supervision and guidance.

**(Dr.Abhirup Das Barman)**

**Professor**

**Date:**

**Place:** Kolkata