

Title of Project- Analytical and Numerical Design of Hybrid Multiplexer for Optical Interconnect using Silicon Photonics

Funding agency- SERB

Project Investigator: Ramesh Kumar Sonkar, Department of Electronics and Electrical Engineering

Objective:

- To design and simulate a mode-division multiplexer (MDM) with Transverse Electric (TE) modes
- To design MDM-PDM hybrid Multiplexer
- To design MDM, PDM and WDM hybrid multiplexer

Deliverables:

The main aim of the proposed project is to design a low cost multiplexer/demultiplexer which can support a large number of channels than existing multiplexing devices in silicon photonics platform.

