

# Memorandum of Understanding

Between



**Department of Electronics and Communication  
BMS College of Engineering**

and

**PRLightCOM Broadband Solutions Pvt. Ltd.**

This Memorandum of Understanding (MOU) sets for the terms and understanding between the Department of Electronics and Communication, BMS College of Engineering and PRLightCOM Broadband Solutions Pvt. Ltd.

## **1.0 Purpose:**

- To enhance and improve the student's textbook knowledge of Optical Fiber transmission systems & WDM optical networks, using OFC-SystemsSoft and WDM-NetSoft modules.
- Motivate the Post Graduate students to pursue professional career placements in fibre optic telecom industry.

**2.0 Project Objectives:** At the end of the semester, the student shall acquire & demonstrate knowledge and skills relating to:

- Systems engineering of different types of physical layers such as Point to Point GbEthernet links, FTTP-GPON links, CWDM & DWDM links, HFC/CATV links, and ROF-UWB links. The systems engineering of these links include analysis, design and optimization aspects using OFC-SystemsSoft.
- Perform network engineering of WDM networks such as linear, ring, and mesh topologies with/without wavelength conversions, including sparse wavelength conversions. The network engineering includes the estimation of network performance metrics such as the calculation of network blocking probabilities, wavelength utilization, and estimation of network capacity, using WDM-NetSoft.