B. P. Poddar Institute of Management & Technology

Department of Electronics & Communication Engineering

Academic Year: 2018-2019, Semester: Odd

Laboratory Name: Dr. N.S. Kapany Lab.   Room No.: B – 601

4 ECE 1st Semester

Course Name: Optical Communication & Network Lab (EC- 793B)

List of Experiments to be conducted

Sl. No.	Topic	Name of Experiment	CO	PO	PSO
1	Fiber Loss	Measurement of signal attenuation within an optical fiber.	1	1, 2, 5, 8, 9, 10 12	1, 2
2	Fiber Loss	Study of frequency division multiplexing in a fiber-optic analog communication system and calculation of bending loss of an optical fiber.	1	1, 2, 5, 8, 9, 10 12	1, 2
3	Fiber Loss	Measurement of various attenuations of a long optical fiber using optical time domain reflector-meter (OTDR).	1	1, 2, 5, 8, 9, 10 12	1, 2
4	Light Collecting Ability of Fiber	Measurement of numerical aperture of an optical fiber.	2	1, 2, 5, 8, 9, 10 12	1, 2
5	LED	Study of electrical characteristics of light emitting diodes.	3. 4	1, 2, 8, 9, 10 12	1, 2
6	Additional Experiment	Design of an Optical Fiber Communication System using OptiSystem Software.	5	1, 2, 3, 5, 8, 9, 10 12	1, 2
7	Virtual Lab Experiment	To determine the wavelength of a laser using Michelson interferometer.		1, 2, 3, 5, 8, 9, 10, 12	1,2