

Course Number and Name												
BEC701 - FIBER OPTIC COMMUNICATION												
Course Objectives												
<ul style="list-style-type: none"> <li>• To learn the basic elements of optical fiber transmission link, fiber modes configurations and structures.</li> <li>• To understand the different kind of losses, signal distortion, SM fibers.</li> <li>• To learn the various optical sources, materials and fiber splicing</li> <li>• To learn the fiber optical receivers and noise performance in photo detector.</li> <li>• To learn link budget, WDM, solitons and SONET/SDH network.</li> </ul>												
Prerequisites						Co-requisites						
Electromagnetic Fields and waves.						Nil						
Course Outcomes (COs)												
CO1: Demonstrate an understanding of optical fiber communication link, structure, propagation and transmission properties of an optical fiber.												
CO2: Estimate the losses and analyze the propagation characteristics of an optical signal in different types of fibers												
CO3: Describe the principles of optical sources and power launching-coupling methods.												
CO4: Compare the characteristics of fiber optic receivers												
CO5: Design a fiber optic link based on budgets												
CO6: To assess the different techniques to improve the capacity of the system.												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	
CO1	H		M			M		H				
CO2	M	L	H				H		L	H		
CO3	M	H		H		M	L					H
CO4	M	H		H					M			M
CO5		L			M	M	M		L			M
CO6				M		H	M					