

Branch Name:	Information and Communication Technology
Semester/Year:	Semester II / First Year
Subject Title:	Optical Network Practical
Subject Code:	2ET2080204P
Pre-requisite:	Optical Communication System

Course Objective:

The course provides good knowledge of different optical networks and the mechanism to obtain the same. The course also describes present optical fiber to carry out more messages, handle a wide variety of transmission types and provide improved reliabilities and ease of use.

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	SEE		CCE		SEE		CCE						
	L	T	P	Total	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1	-	-	2	2	-	-	-	-	10	25	10	25	50

List of Experiments:

- (1) To study and perform Filter Switches.
- (2) To study and perform Wavelength Converters.
- (3) To study and implement SONET.
- (4) To study and perform multiprotocol label switching.
- (5) To study the characteristics of a multiplexer and OADM.
- (6) To design wavelength division multiplexing (WDM) network.
- (7) To study and perform optical layer protection.
- (8) To study and implement statistical dimensioning models.
- (9) To study and perform Optical time division multiplexing.
- (10) Mini project based on Optical Network using simulation tools.