

OPTICAL COMMUNICATION & NETWORKING

Written by Administrator
Sunday, 08 November 2009 04:38 -

Subject Code

:

06TE81

IA Marks

:

25

No. of Lecture Hrs/ Week

:

04

Exam Hrs

PART - B

Unit – 5

First generation networks SONET/SDH, Computer interconnects, Mans, Layered architecture for SONET and second generation networks.

6 Hours

Unit - 6

Wavelength routing networks: Optical layer, Node design, Network design and operation, routing and wavelength assignment architectural variations.

7 Hours

Unit - 7

Virtual topology design: Virtual topology design problem, Combines SONET/WDM network design, an ILP formulation, Regular virtual topologies, Control and management, Network management configuration management, Performance management, fault management.

6 Hours

Unit - 8

Access networks: Network architecture overview, present and future access networks, HFC, FTTC, Optical access networks Deployment considerations, Photonic packet switching, OTDM, Multiplexing and demultiplexing, Synchronisation.

7 Hours

Text Book:

1. **Optical networks: A practical perspective** – Kumar Sivarajan and Rajiv Ramaswamy: Morgan Kauffman 1998.

Reference BOOK:

1. **Optical communication networks– Biswajit Mukherjee TMG 1998.**
2. **Optical networks – Ulysees Black, Pearson education 2007.**