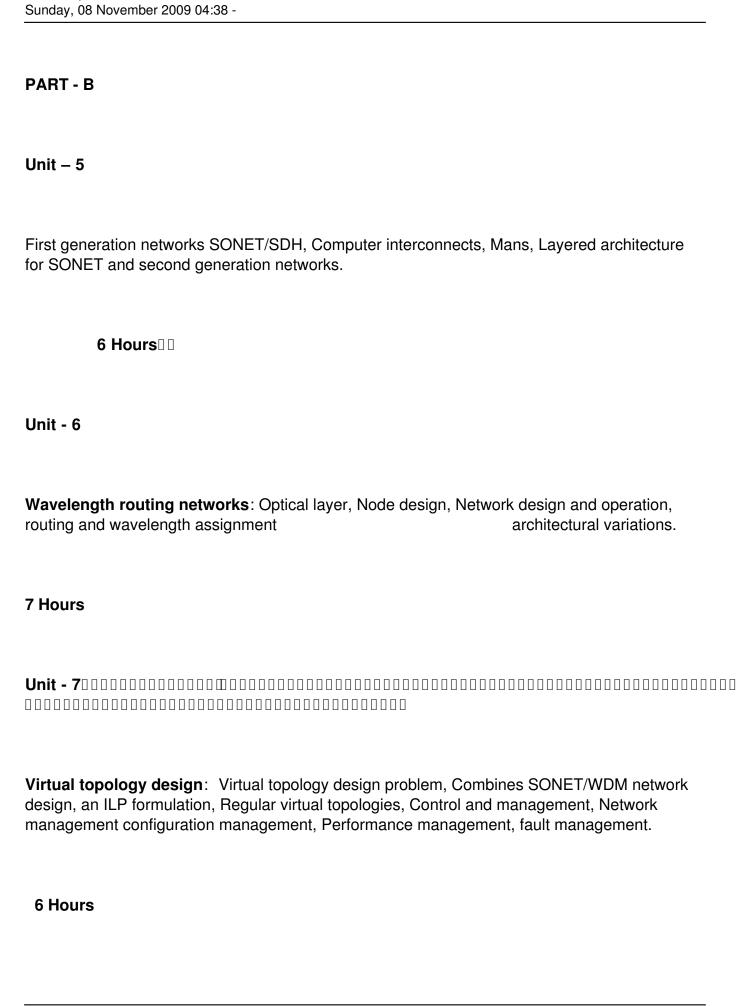
Written by Administrator Sunday, 08 November 2009 04:38 -
Subject Code
O6TE81 IA Marks
25
No. of Lecture Hrs/ Week
04
Exam Hrs

Written by Administrator Sunday, 08 November 2009 04:38 -
03
Total no. of Lecture Hrs.
52
Exam Marks
100
PART - A
Unit - 100000000000000000000000000000000000

6 Hours

Written by Administrator Sunday, 08 November 2009 04:38 -Introduction to optical networks: Telecommunication networks, First generation optical networks, Multiplexing techniques, Second-generation optical networks, System and network evolution. Non-linear effects SPM, CPM, four wave mixing, Solutions. 6 Hours **Components**: Couplers., isolators and Circulators, Multiplexes and filters Optical amplifiers. 7 Hours Transmitters, detectors, Switches, Wavelength converters. □□ □7 Hours **Engineering** System model, Power penalty, Transmitter, receiver, optical amplifiers, Crosstalk, Dispersion, Overall design Consideration.

Written by Administrator



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

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:
 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.