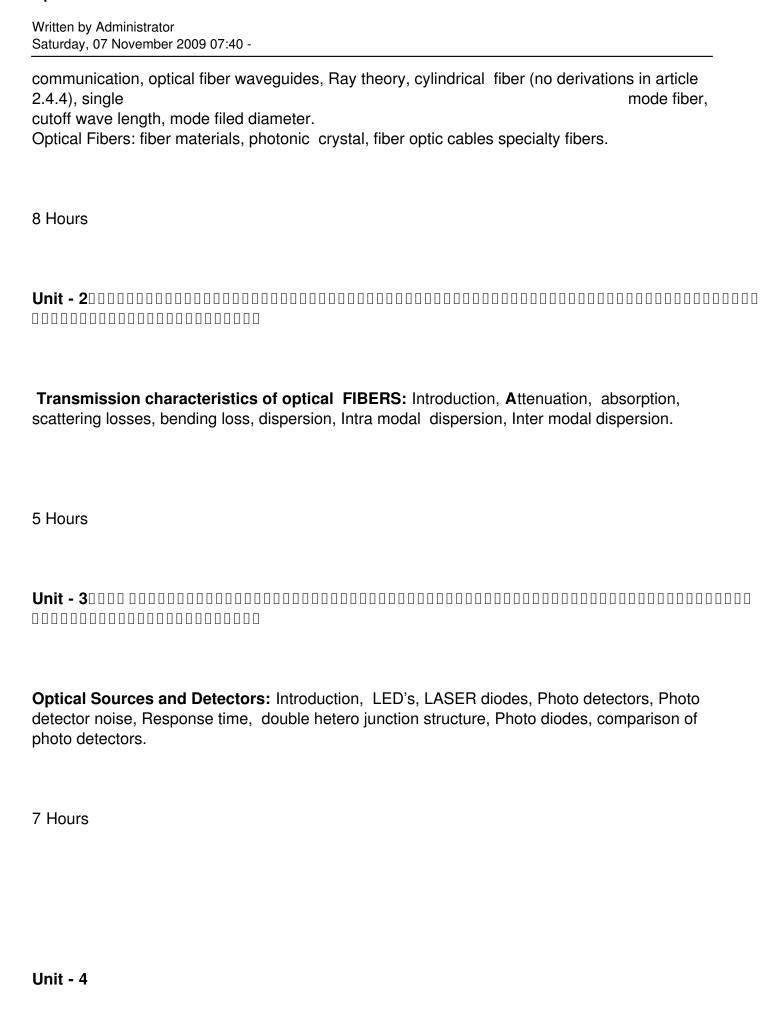
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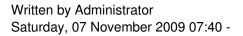
Optical Fibe	er Communication					
Written by Administrator Saturday, 07 November 2009 07:40 -						
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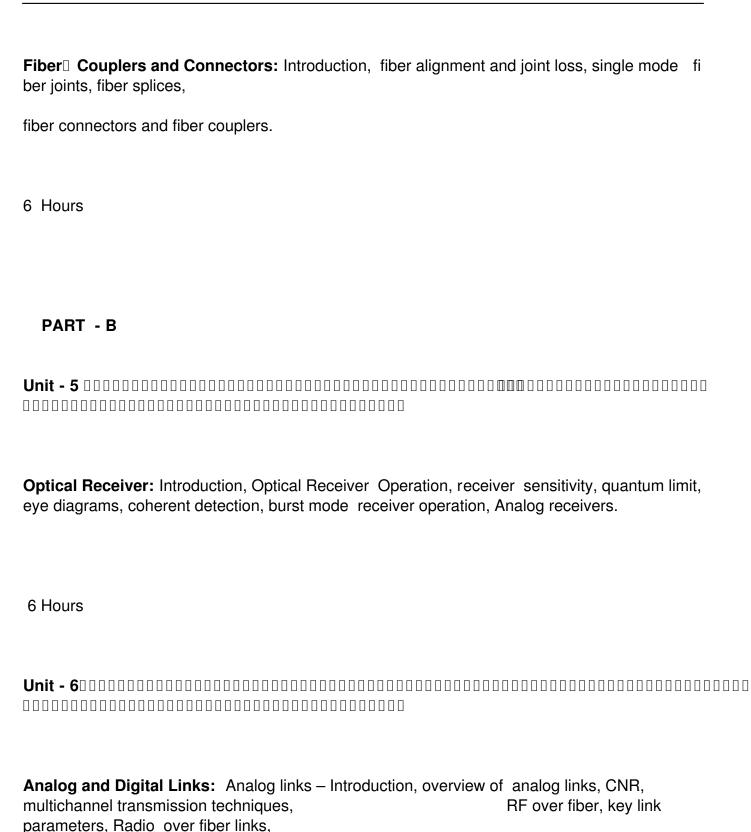
Optical Fiber Communication Written by Administrator Saturday, 07 November 2009 07:40 -03 Total no. of Lecture Hrs. : 52 Exam Marks : 100 PART - A

Overview of Optical Fiber Communication: Introduction, Historical development, general system, advantages, disadvantages, and applications of optical fiber



microwave photonics.





Written by Administrator Saturday, 07 November 2009 07:40 -

Digital links – Introduction, point–to–point links, System considerations, link power budget, resistive budget, short wave length band, tra nsmission distance for single mode fibers,

Power penalties,

nodal noise and chirping.

8 Hours

WDM Concepts and Components: WDM concepts, overview of WDM operation principles, WDM standards, Mach-Zehender interferometer, multiplexer, Isolators and circulators, direct thin film filters, active optical components, MEMS technology, variable optical attenuators, tunable optical fibers, dynamic gain equalizers, optical drop multiplexers, polarization controllers, chromatic dispersion compensators, tunable light sources.

6 Hours

Unit - 8

Optical Amplifiers and NETWORKS: optical amplifiers, basic applications and types, semiconductor optical amplifiers, EDFA. O ptical Networks: Introduction, SONET / SDH, Optical Interfaces, SONET/SDH rings, High — speed light — waveguides.

6 Hours

Written by Administrator Saturday, 07 November 2009 07:40 -					
Text books:					
1 Ontical Fiber Communication Cord Valour 4th Ed. MCII 2000					
1. Optical Fiber Communication – Gerd Keiser, 4 th Ed., MGH, 2008.					
2. Optical Fiber Communications — John M. Senior, Pearson Education. 3 rd					
Impression, 2007.					
Reference Book:					
. 					
1. Fiber optic communication – Joseph C Palais: 4 th Edition, Pearson Education.					