

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Electronics)
Semester: VI
Syllabus with Effect from: November-2013

Paper Code: US06CELE06	Total Credit: 3
Title of Paper: Analo Communication & Fiber Optics	

Unit	Description in detail	Weightage (%)
I	Principle of colour TV, Colour TV Camera, Picture Tubes in TV system, Colour TV Transmission & Reception, PAL system.	25%
II	Optical Fiber : Comparision of Fiber with Metal cables, Fiber Construction, Principle of fiber optics, Advantage of fiber optics, Types of fibers, Step Index Fibers, Single mode and multimode Fibers, Graded Index Fiber & other type of Fiber.	25%
III	Optical Fiber Sources & Detectors, LED, LASERS, Avalanche Photodiode, PIN photodiode.	25%
IV	Block diagram of Fiber- optics Communication system, Repeaters Fiber Cables & Splicing of Fibers.	25%

Basic Text & Reference Books:

- Radio Engineering (Applied Electronics Vol-II) By : G.K.Mithal
- Basic Radio & Television By : S.P.Sharma
- Fiber optics communication By : D.C.Agarwal
- Optics Fibers communication By : Gera Keiser

