Coordinators

Prof. R.K. Shevgaonkar
IIT Bombay

Download Syllabus in PDF format

Syllabus | **References**

COURSE OUTLINE

The content in this course is designed to cover a one semester course at the post graduate level.
After providing the basic foundation of fiber optic communication, the course covers the advanced topics like the power penalty in a link, fiber amplifiers like the EDFA and Raman Amplifiers, non-linear fiber optics, optical switches and routers, dispersion compensators, DWDM systems, wavelength routed optical networks, optical CDMA systems, etc.

COURSE DETAIL

Sl. No	Topic	No. of Hours
1	Basic principles of light propagation.	2
2	Optical fibers - modal propagation.	4
3	Signal distortion on optical fibers.	4
4	Optical sources LED.	2
5	Lasers.	5
6	Photo receivers, noise.	4
7	Optical link design, power penalty etc.	4
8	SONET/SDH, DWDM, optical switches.	5
9	Fiber Amplifiers, EDFA, DRA.	4
10	WDM networks and components and Optical CDAMA.	6
	Total	40