	CS440 - Transmission Media Jul 9th.
	1 send to 3
	M3 M1 Data
Snk	$\begin{array}{c} 12 \\ 13 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15$
	The Company of the Co
	two many ix can degrade the quality of signal.
Fig 4.1	
O	Laser light: no different individually from normal light rang, the difference is colletively allirays are emitted with the same share.
	The same share.
	Infra Red: heat wave.
	twisted pair: cheup built in during construction. - twisted cuncel the magnetic force boxween
	- twisted cuncel the magnetic force boxween
	Re vire
	Coaxial caple: - Gauss law: inside the complete. onclosed intersurface, electro megnetic field
	12 Ze (T
OF	ical dibre: refer stide
-	

ar. which freq used for which types of cables Mear End Grosstalk: the signal of Tx cross over to.

Rx at one end, and vice versa in purt of the twisted.

Pair issues. Optical fibre

— Cladding: +rxf medium but notinsulator. Denser fight preflects

[cfass];

[c the angle i > critical anger (full F10 Conversion: Electrical to Optical conversion. Figure 4.6 1: emit

radiation.

1: emit

a) 2 pulse

a physical decreases.

- absorbtion of light.

- the light at center fluctuates more of

thus reduce energy.

1- the course fluctuates of the Fight. 7) spread: because the rays fluctuates -> the frequencies spread at the end.

	b) the light at center is controlled to emit slower than
	the ones on the side, -> so they reach at the same time.
	b) the light at center is controlled to emit slower than the ones on the side. > so they reach at the same time. c) not use reflection, make it so thin for hardly no reflection.
	reflection.
Wireless	transmission Medium