http://users.utcluj.ro/~bogdaniancu/rc.html

sau

http://ftp.utcluj.ro/pub/users/dadarlat/retele_an4/

Prezentarile ppt de la 9 pana la 18

Reference books:

Vasile Teodor Dadarlat, Emil Cebuc: *Retele Locale de Calculatoare - de la cablare la interconectare,* Editura Albastra (MicroInformatica), 2005

A. Tanenbaum – *Computer Networks,* Prentice Hall, 2005 (Tradusa in limba romana: A. Tanenbaum – *Retele de Calculatoare, editia a 4a,* Byblos, 2004)

W. Stallings – *Data and Computer Communications*, Prentice Hall (10th edition 2013)

1)	Flow Control Techniques: Stop and Wait Sliding Window
2)	HDLC (High-level Data Link Control) protocol and frame structure;
3)	CSMA/CD FDDI
4)	FastEthernet, GigabitEthernet, 10 GigabitEthernet and 100 GigabitEthernet
5)	Wireless LAN
6)	Spanning-Tree protocol
7)	Routing strategies
8)	Nyquist theorem and Shannon's theorem Time Division Multiplexing TDM Frequency Division Multiplexing FDM Synchronous transmission vs Asynchronous transmission Switching techniques: packet switching
9)	Transmission Media: twisted pair cables (TP) and fiber optics
10)	ADSL (Asymmetric Digital Subscriber Line)

Terms and concepts (short definitions):

Symmetric vs asymmetric communication
Analog vs Digital data
Role and examples of Data encoding
Hub, Switch, Router
Structured Cabling – necessity and elements
Bit stuffing role and necessity (example on HDLC protocol)