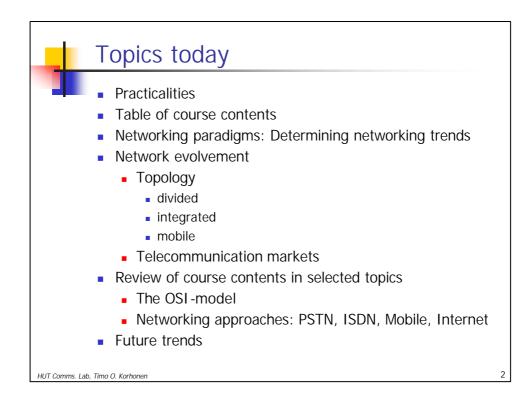
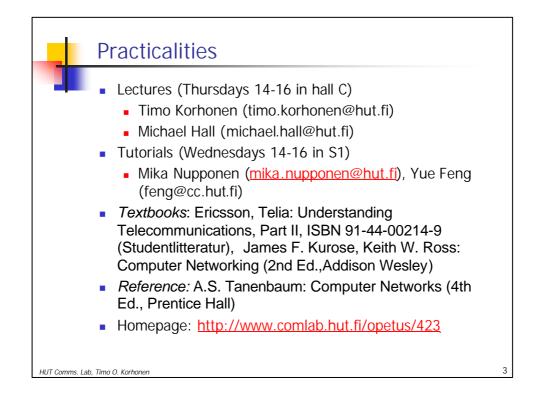
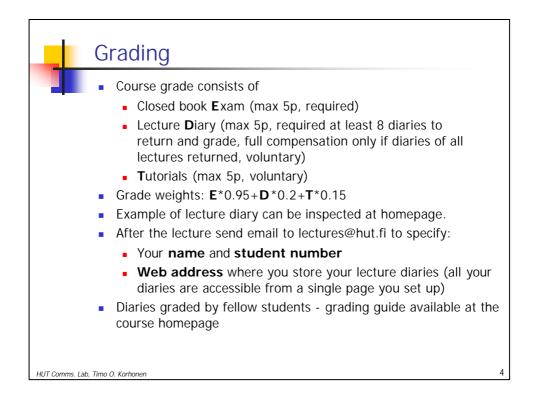
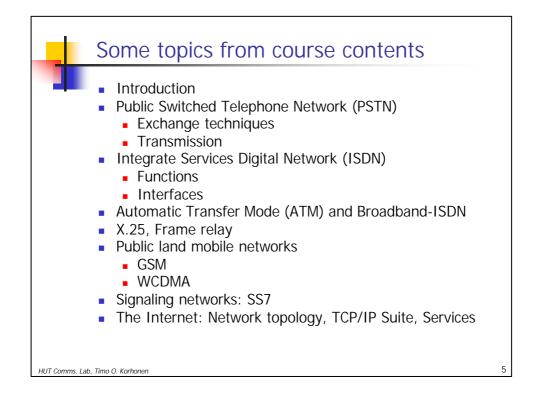
S-72.423 Telecommunication Systems

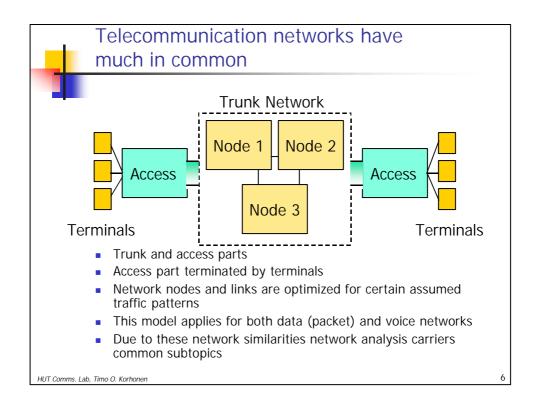
## An Overview to Course Contents

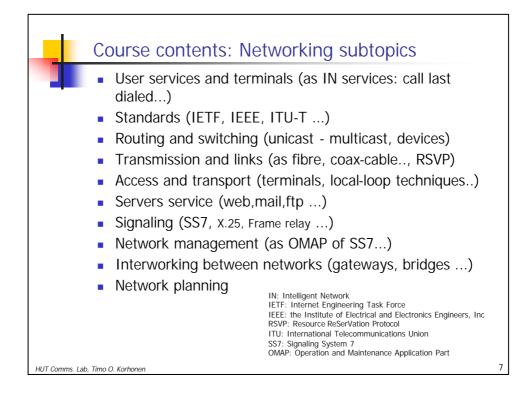


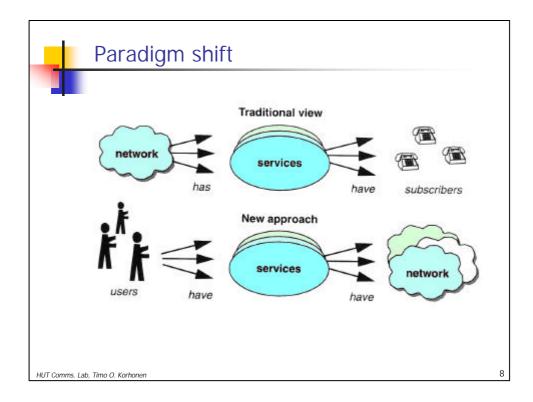


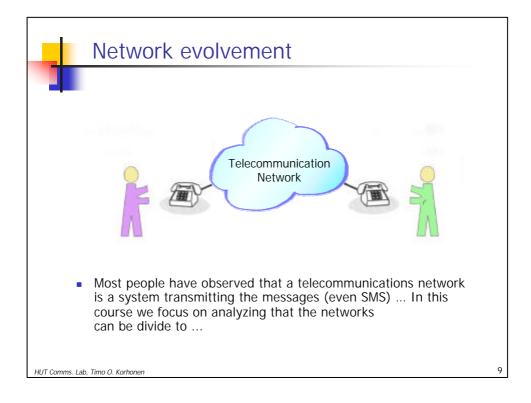


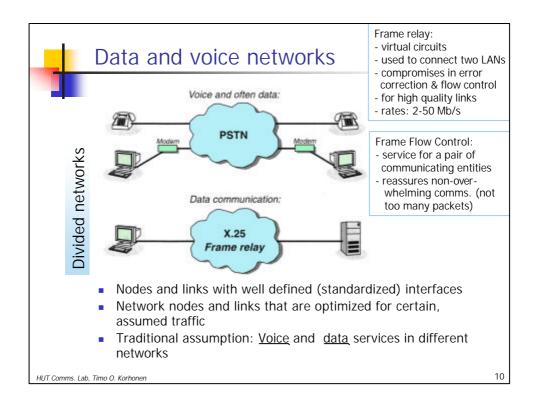


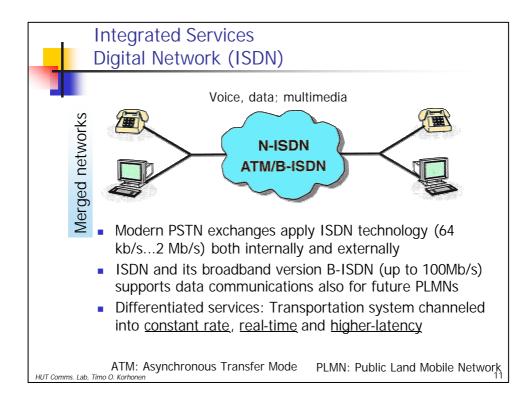


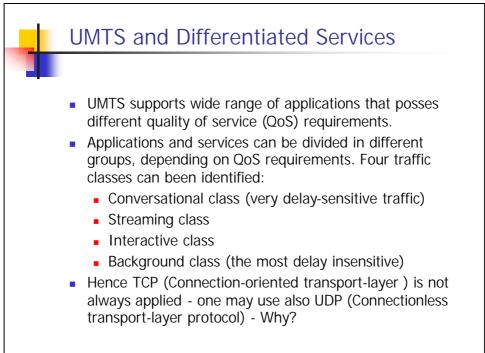


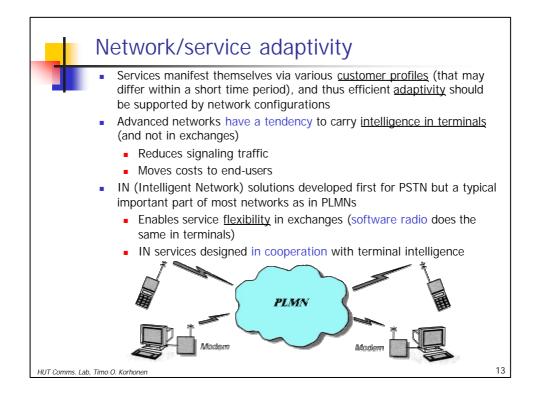


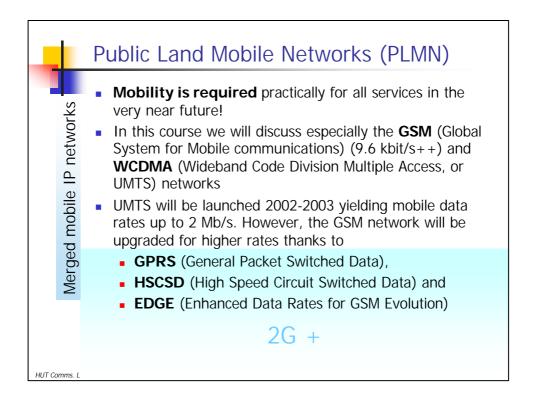


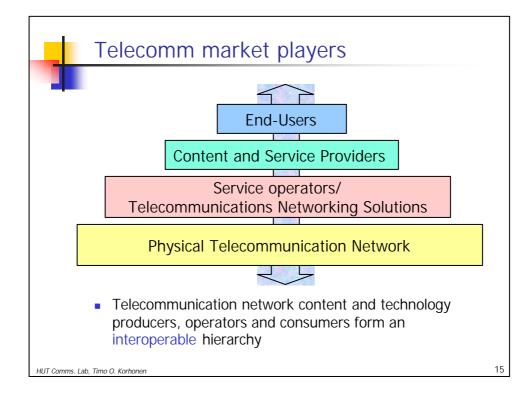


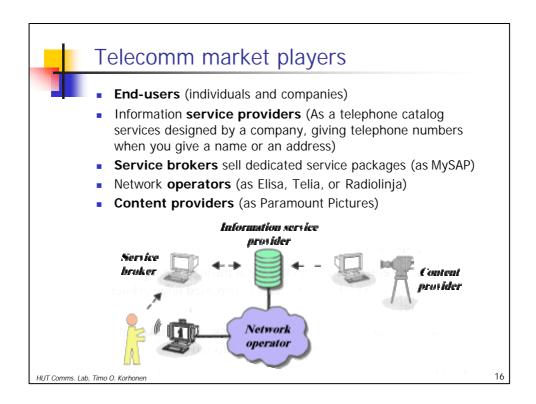










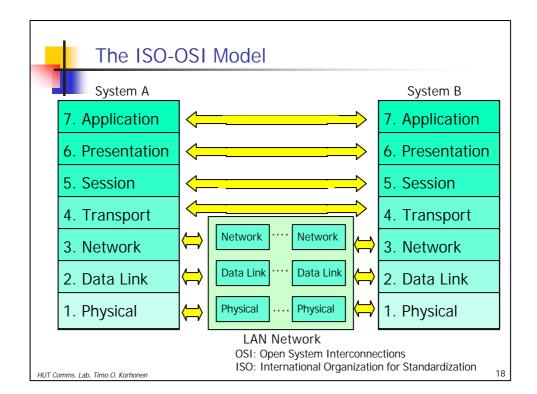


Telecom	services	categorized	BZG, L
		J	

Category	Important application
Communications	teleworking, multimedia, mail
Knowledge	distance education, database retrievals
Entertainment	games etc. (getting increasingly important!)
Information	Marketing, yellow pages, catalogues
Service	home shopping and banking, telemedicine
Remote control/remote supervision	Automation applications

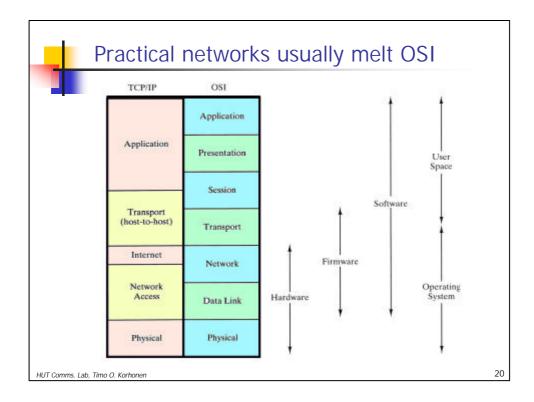
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## The OSI-functions

7. Application	User access to OSI environment applications	S
6. Presentation	Provides independence of applications from differences in data presentations	AV6
5. Session	Establishing, managing and termination connections (sessions) between cooperating applications	Bateway Laver
4. Transport	Provides reliable, transparent data transfer for lower level data segments or blocks	Gate
3. Network	Gives routing service for transport layer. Layer of routers.	Ś
2. Data Link	Sends data blocks with synchronization, error and flow control for end-to-end connections*. Layer of bridges.	AN Lavers
1. Physical	Transforms electrical signal into bits. In local networks standardized by 802.x standard. Layer or repeaters	IAN
*For instance in a classro		
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Each OSI	-layer has its standardized services	
7. Application	NCP, FTP, Telnet, SMTP, SNMP, LAT, AFP, SMB	
6. Presentation	SNA Presentation services	
5. Session	NetBIOS, NetBEUI, DNS,	
4. Transport	SPX, PEP, TCP, UDP, NSP	
3. Network	IPX, RIP, SAP, IDP, IP, ARP, RARP, ICMP, X.25, RIP	
2. Data Link	IEEE 802.X, ANSI X3T9.5, SMT,	
1. Physical	V.24, V.35, V.90, 10Base5, 10Base2, 10BaseT, FDDI, SDH, G.703	
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