

Review for MT 5

Part 10h of
“Electronics and Telecommunications”
A Fairfield University E-Course
Powered by LearnLinc

Module: Digital Systems (in two parts)

- Texts:
 - “Computers,” Capron, Benjamin Cummings, 1996, ISBN 0-10053-0662-5
 - “Telecommunications,” Blyth, McGraw-Hill, 1990, ISBN 0-02-61001041-2
 - “Understanding Telephone Electronics,” Bigelow, Newnes, 1997, ISBN 0-7506-9944
- References:
 - [Electronics Tutorial](#) (Thanks to Alex Pounds)
 - [Electronics Tutorial](#) (Thanks to Mark Sokos)
- Part 9 – Computers
 - 5 on-line sessions plus one lab
- Part 10 – Digital Communications
 - 5 on-line sessions plus one lab
- Mastery Test part 5 follows this Module

Digital Systems: Topics

- Computer Architecture
 - Memory: ROM, RAM, Cache, Error Checking
 - CPU and Program Control **Part 9**
 - Secondary Storage: Floppy, Hard Drive, CD / DVD
 - I/O (Human: Video, Keyboard, & Pointer)
 - Digital I/O: Serial, Parallel, IDE, USB, FireWire, SCSI
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- Serial I/O: RS232
- Modems **Part 10**
 - Telephone: Modulation and Data compression
 - Cable and DSL
- Telephony Digital Transmission
- Packet Transmission
- Fiber Optics: SONET

Section 10 Schedule

Session 10a	06/30	RS 232	Bigelow: 285-290; Blythe: 162-170
Session 10b	07/02	Telephone Modems	Bigelow: 290-307; Blythe: 170-176
Session 10c No class 7/14, 7/16	07/07	Modems 2: DSL, Cable, Fax & 56K	Bigelow: 307-321; Notes
Session 10d	07/09	T-Carrier	Bigelow: 198-210
Session 10e	07/21	Packets & SONET	Bigelow: 308-309; Notes
Session 10f (Quiz 10 due 07/27) (Lab - 07/26, Sat.)	07/23	Review for Quiz 10	
Session 10g	07/28	Quiz 10 Results	
Session 10h No Class 8/4, 8/6, 8/11	07/30	MT 5 Q&A	
Session 10i	08/13	MT 5 Q&A 2	If I'm back in time from Chicago
MT5 (Sat, Cheshire)	08/16	MT 5	
MT5 Results	08/18	MT 5 Results	

Section 9 Review

- We'll use the Quiz 9 review to go over that material using AppShare

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