

EE438 Digital Signal Processing with Applications

Spring 2001

Lecture and Laboratory Schedule

Wk	Day	HW due	Laboratory	Lecture numer and title
1	Jan. 8			1. Introduction/Overview
	Jan. 9		Lab 1 :D-T and C-T	
	Jan. 10		Signals	2. Signal Properties
	Jan. 11			
	Jan. 12			3. System Properties
2	Jan. 15	*****MLK Holiday*****		
	Jan. 16		Lab 2: D-T Systems	
	Jan. 17			4. Linear Convolution
	Jan. 18			
	Jan. 19			5. Frequency analysis
3	Jan. 22	HW#1 (11:30am)		6. CTFT & DTFT props.
	Jan. 23		Lab 3. Freq. Analysis	
	Jan. 24			7. Sampling & Quantization
	Jan. 25			
	Jan. 26			8. Reconstruction (DAC)
4	Jan. 29	HW#2 (11:30am)		9. Interpolation & Decimation
	Jan. 30		Lab 4. Sampling and	
	Jan. 31		Reconstruction	10. Z-Transform
	Feb. 1			
	Feb. 2			11. Inverse Z-Transform
5	Feb. 5	HW#3 (11:30am)		12. ZT and DTFT
	Feb. 6		Lab 5. Digital Filter	
	Feb. 7		Designs I	13. DFT & properties
	Feb. 8		Ex 4: FIR Filters	
	Feb. 9			EXAM I
6	Feb. 12			14. FFT: divide & conquer
	Feb. 13		Lab 5. Digital Filter	
	Feb. 14		Designs II	15. FFT: radix 2
	Feb. 15			
	Feb. 16			16. Speech models
7	Feb. 19	HW#4 (11:30am)		17. Speech models
	Feb. 20		Lab 6. DFT & FFT I	
	Feb. 21			18. Short-Time Fourier Analysis
	Feb. 22			
	Feb. 23			19. Spectrograms
8	Feb. 26	HW#5 (11:30am)		20. Windows
	Feb. 27		Lab 6. DFT & FFT II	
	Feb. 28			21. Linear Prediction
	Mar. 1			
	Mar. 2			22. LPC Analysis

9	Mar. 5	HW#6 (11:30am)		23. Autocorrelation/Cov. methods
	Mar. 6		Lab 7. Quantization	
	Mar. 7			24. Cepstral analysis
	Mar. 8			
	Mar. 9			EXAM II
??	Mar. 12	*****Spring Break*****		
	Mar. 13	*****Spring Break*****		
	Mar. 14	*****Spring Break*****		
	Mar. 15	*****Spring Break*****		
	Mar. 16	*****Spring Break*****		
10	Mar. 19			25. Speech recognition
	Mar. 20		Lab 8. D-T Random	
	Mar. 21		Processes	26. Template matching
	Mar. 22			
	Mar. 23	HW#7 (5:00pm)		27. Distance measures
11	Mar. 26			28. Dynamic time warping
	Mar. 27		Lab 8. D-T Random	
	Mar. 28		Processes	29. Dynamic time warping
	Mar. 29			
	Mar. 30	HW #8 (5:00pm)		30. 2-D Intro, 2-D CSFT
12	Apr. 2			31. 2-D CSFT Props
	Apr. 3		Lab 9. Speech Processing	
	Apr. 4			32. 2-D Transform Pairs
	Apr. 5			
	Apr. 6			EXAM III
13	Apr. 9			33. 2-D Sampling
	Apr. 10		Lab 9. Speech Processing	
	Apr. 11			34. Point-Wise Image Mappings
	Apr. 12			
	Apr. 13	HW#9(5:00pm)		35. 2-D Systems
14	Apr. 16			36. 2-D Systems
	Apr. 17		Lab 10. Image Processing	
	Apr. 18			37. 2D filtering
	Apr. 19			
	Apr. 20	HW#10 (5:00pm)		38. 2D filtering
15	Apr. 23			39. Tomography
	Apr. 24		Lab 10. Image Processing	
	Apr. 25			40. Tomography
	Apr. 26			
	Apr. 27			41. Tomography
	Apr. 30-May 5		Final Exam	

	Mon.	Tues.	Wed.	Thur.	Fri.
7:30		Lab Nazim MSEE 184		Lab Nazim MSEE 184	
8:30		Ø		Ø	
9:30		Ø		Ø	Office Hours Breinholt MSEE 184
10:30	Office Hours Kisner MSEE 184	Office Hours Nazim MSEE 184	Office Hours Kisner MSEE 184	Office Hours Nazim MSEE 184	
11:30	Lecture MSEE B012	Lab Kisner MSEE 184	Lecture MSEE B012	Lab Kisner MSEE 184	Lecture MSEE B012
12:30	Office Hours Zoltowski MSEE 356	Ø			Office Hours Zoltowski MSEE 356
1:30	Office Hours Friel MSEE 184	Ø	Office Hours Friel MSEE 184	Office Hours Breinholt MSEE 184	Office Hours Breinholt MSEE 184
2:30	Office Hours Breinholt MSEE 184	Lab Friel MSEE 184	Office Hours Breinholt MSEE 184	Lab-Friel Off Hr-Brad MSEE 184	
3:30		Ø	Office Hours Breinholt MSEE 184	Office Hours Breinholt MSEE 184	
4:30		Ø		Ø	

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