

| Date | activity | Teacher | Material | The least exercises to test knowledge | Topic |
|-----------|---------------|--------------|---|---|---|
| 18/4/2016 | EE2s31 | Heusdens | DSP: Ch. 1, 2.1 t/m 2.4 | | Introduction and examples |
| 21/4/2016 | EE2s31 | Heusdens | DSP: 2.5 t/m 4.4 | | Recap (LTI systems, Fourier transforms, Z-transform) |
| 25/4/2016 | EE2s31 | Heusdens | DSP: Ch. 5 | | Recap (poles/zeros, frequency response, filter functions) |
| 26/4/2016 | EE2s31 | Hendriks | PSP: 2nd ed.: Ch. 1, 2, 3 3rd ed.: Ch. 1, 3, 4, 6.2, 7.1, 7.2 | 2nd ed: 1.4.1, 1.5.1, 1.5.5, 1.7.6, 2.4.3, 2.5.5, 2.8.4, 2.9.3, 3.4.5 3rd ed: 1.4.1, 1.3.1, 1.3.7, 3.4.2, 3.4.6, 3.8.3, 7.1.1, 4.5.10 | Probability and events, conditional probability, Bayes' rule, random variables, expectation, variance |
| 28/4/2016 | EE2s31 | Heusdens | DSP: 6.1 t/m 6.4, 8.2.2 | | Non-ideal sampling and reconstruction, Frequency domain sampling |
| 9/5/2016 | EE2s31 | Hendriks | PSP: 2nd ed.: Chs. 4,5 3rd ed.: Chs. 5, 8, 7.3, 7.4, 7.6 | 2nd ed: 4.1.1, 4.2.1, 4.2.2, 4.3.2, 4.4.1, 4.5.2, 4.5.6, 4.7.8 3rd ed: 5.1.1, 5.2.1, 5.2.2, 5.3.2, 5.4.1, 5.5.3, 5.5.9, 5.5.8 | Pairs of random variables, mean, variance and covariance |
| 10/5/2016 | EE2s31 | Hendriks | PSP: 2nd ed.: Ch. 10 3rd ed.: Ch. 13 | 2nd ed.: 10.2.3, 10.10.3, 10.4.1, 10.4.2 4.11.1, 10.5.1, 10.5.6 3rd ed.: 13.1.3, 13.9.8, 13.3.1, 13.3.2, 5.9.1, 13.4.1, 13.4.8 | Random processes, IID, Poisson processes, Gaussian processes, stationarity |
| 12/5/2016 | EE2s31 | Hendriks | PSP: 2nd ed.: Ch. 11 3rd ed.: You can download the corresponding chapter from http://bcs.wiley.com/he-bcs/Books?action=index&bcsId=8677&itemId=1118324560 Go to the tab “browse by resource” and select “signal processing supplement” | 2nd ed.: 10.8.1, 10.8.3, 10.9.1, 10.10.4, 10.10.1, 11.1.1, 11.1.3 3rd ed. supplement: 13.7.1, 13.7.3, 13.8.1, 13.9.9, 13.9.1 3rd ed. supplement: 1.1, 1.3 | The autocorrelation function, wide sense stationarity. |
| 18/5/2016 | mid-term exam | | | | |
| 24/5/2016 | EE2s31 | Van der Veen | DSP: 9.2.4, 9.3.5 | 4th int. ed: 9.12, 9.13, 9.15 | All-pass filter structures |
| 26/5/2016 | EE2s31 | Heusdens | DSP: 7.1 t/m 7.3, 8.1.3, 10.2.2 | 4th int. ed: 7.6, 7.9, 8.1 | DFT, FFT, circular convolution, spectral analysis, STFT |
| 30/5/2016 | EE2s31 | Hendriks | PSP: 2nd ed.: Ch. 11 3rd ed.: You can download the corresponding chapter from http://bcs.wiley.com/he-bcs/Books?action=index&bcsId=8677&itemId=1118324560 Note: This download apparently only works using explorer. Go to the tab “browse by resource” | 2nd ed.: 11.2.1, 11.2.3, 11.2.8, 11.5.1, 11.8.2, 11.8.5 3rd ed. supplement: 2.1, 2.3, 2.8, 5.1, 8.2, 8.5 | The use of the autocorrelation function in linear filtered signals. Autoregressive processes |

| | | | | | |
|-----------|--------|-------------------|---|---|--|
| | | | and select “signal processing supplement” | | |
| 31/5/2016 | EE2s31 | Heusdens | DSP: 9.4 t/m 9.6, 6.6 | 4 th int. ed: 9.18, 9.20, 9.22, 9.26 | Quantization and round-off effects, sigma-delta modulation |
| 2/6/2016 | EE2s31 | Hendriks | PSP: 2 nd ed.: Ch. 7,9 3 rd ed.: Ch. 10, 12 | 2 nd ed.: 7.1.2, 7.2.4, 9.1.2 3 rd ed.: 10.1.2, 10.2.5, 12.1.2 | Sample mean, central limit theorem, bias and consistency |
| 6/6/2016 | EE2s31 | Hendriks | PSP: 2 nd ed.: Ch. 6 3 rd ed.: Ch. 9 | | Sums of random variables |
| 7/6/2016 | EE2s31 | Hendriks | | | Application: Quantization and sampling of the pdf. |
| 9/6/2016 | EE2s31 | Heusdens | DSP: Ch. 11 | 4 th int. ed: 11.1, 11.2, 11.4, 11.7, 11.8, | Multi-rate signal processing |
| 13/6/2016 | EE2s31 | Hendriks/Heusdens | | | Oefen tentamens |
| 24/6/2015 | exam | | | | |

PSP: Probability and stochastic processes by R. D. Yates and D. J. Goodman

DSP: Digital signal processing by J. G. Proakis and D. G. Manolakis