Radio Networks M – A.Y. 2016/17 – Prof. Roberto Verdone

Required Background

Ref: B. Carlson, "Communication Systems – An Introduction to Signals and Noise in Electrical Communication", McGraw Hill, Third Edition

Chapter 2:	**Section 2.1**	**Line Spectra and Fourier Series**
	Section 2.2	**Fourier Transforms and Continuous Spectra**
	Section 2.3	**Time and Frequency Relations**
Chapter 3:	**Section 3.1**	**Response of LTI Systems**
	Section 3.2	**Signal Distortion in Transmission**
	Section 3.3	**Transmission Loss and Decibels**
	Section 3.4	**Filters and Filtering**
Chapter 4:	**Section 4.1**	**Probabilities and Events**
	Section 4.2	**Random Variables and Probability Functions**
	Section 4.3	**Statistical Averages**
	Section 4.4	**Probability Models**
Chapter 5	**Section 5.1**	**Random Processes**
	Section 5.2	**Random Signals**
	Section 5.3	**Noise**
	Section 5.4	**Signal Transmission with Noise**
Chapter 10	**Section 10.1**	**Sample Theory and Practice**
	Section 10.2	**Analog Pulse Modulation**
Chapter 11	**Section 11.1**	**Digital Signals and Systems**
	Section 11.2	**Noise and Errors**
	Section 11.3	**Bandlimited Digital PAM Systems**
Chapter 14	**Section 14.1**	**Digital CW Modulation**
	Section 14.2	**Coherent Binary Systems**
	Section 14.4	**Quadrature Carrier and M-ary Systems**

Ref: J. Kurose, K. Ross, "Computer Networking – A top-Down Approach", Ed. Pearson, Sixth Edition

Chapter 1	**All Sections**	**Computer Networks and the Internet**