

# DSPO - Agenda Summer 2019

Lecture: Tuesdays 11:30 - 13:00, Room 20.40 Neuer Hörsaal		Workshop: Thursdays 15:45 - 17:15, Room 20.21 PC Pool L	
April 23	Lecture 1: Introduction	April 25	Lab 1a: Test Signals (Sequences)
April 30	Lecture 2: Optical Communication Channels	May 2	Lab 1b: Test Signals (Pulse Shapes, Eyes)
May 7	Lecture 3: Optical Fibers	May 9	Lab 2a: IM/DD Systems (CD)
May 14	Lecture 3: Dispersion Effects (CD, PMD)	May 16	Lab 2b: IM/DD Systems (AWGN)
May 21	Lecture 4: Discrete-Time Channels	May 23	Lab 3a: Coherent Systems (CD, FFT)
May 28	Lecture 5: Digital Coherent Receivers	May 30	Christi Himmelfahrt
June 4	Lecture 6: Digital CD Compensation	June 6	Lab 3b: Coherent Systems (CD Compensation)
June 11	No lecture	June 13	Lab 4a: PMD (Waveplate Model, IM/DD)
June 18	Lecture 7: Digital PMD Compensation	June 20	Fronleichnam
June 25	Lecture 8: Linear Equalization	June 27	Lab 4b: PMD (Channel Estimation)
July 2	Lecture 9: Adaptive Equalization	July 4	Lab 5a: Adaptive MIMO Equalization
July 9	Lecture 10: Carrier Recovery	July 11	Lab 5b: Carrier Recovery
July 16	Lecture 11: Fiber Nonlinearities	July 18	Lab 6a: Split-Step Fourier Method
July 23	Lecture 12: Nonlinear Shannon Capacity	July 25	Lab 6b: Channel Capacity

Lecture and workshop by Prof. Dr.-Ing. Sebastian Randel

Workshop supported by M.Sc. Christoph Füllner and M.Sc. Adib Hossain

Disclaimer: Lecture and workshop topics may change during the course