

## **Course Description – Summer 2020**

**Title** | Communication Systems

Faculty | Electrical Engineering

**Professor** | Prof. Dr. Carsten Roppel

ECTS 5

Level | Master

Requirements Basic knowledge in electrical engineering, signals and systems, digital signal

processing and MATLAB/Simulink is recommended.

Add. Information | Lecture and laboratory exercises

Content | 1 Introduction

2 Signal Transmission (Impulse Response and Convolution, Frequency Response)

3 Digital Baseband Transmission

4 Digital Modulation (ASK, PSK, QAM)

5 Channel Coding (Block codes, Convolutional Codes)

6. Sensor Networks