

Core Modules in Communications Systems

Follow up Modules:

EI70240 Statistical Signal Processing, Utschick, SS

- EI74351 Convex Optimization, WS
- EI70360 Machine Learning and Optimization, WS
- EI7436 MIMO Systems, WS
- EI70220 Digital Signal Processing, WS/SS
- EI70380 Signal Processing and Machine Learning, SS
- EI7433 Adaptive and Array Signal Processing, WS
- EI 7353 Multi-user Information Theory, SS

EI70330 Data Networking, Kellerer, WS

- EI7450 Analysis, Modeling and Simulation of Communication Networks, SS
- EI7644 Communication Network Reliability, SS
- EI7633 Optical Networks, SS
- EI7624 Techno-Economic Analysis of Telecommunication Networks, WS
- EI7532 Multimedia Communications, SS
- EI 8045 Software-Defined Networking Lab, WS/SS
- EI50471 Wireless Sensor Networks Lab, WS/SS

EI70320 Channel Coding, Wachter-Zeh, WS/SS

- EI7411 Channel Codes for Iterative Decoding, SS
- EI71087 Coding Theory for Storage and Networks, SS
- EI71060 Security in Communications and Storage, WS
- EI74121 Coded Modulation, SS
- CIT4330015 Coding for Private Reliable and Efficient Distributed Learning, WS

EI70350 Information Theory, Kramer, WS

Reliability Coding

- EI79001 Advanced Topics in Communications Systems, SS
- EI70320 Channel Coding, WS
- EI7411 Channel Codes for Iterative Decoding, SS
- EI74121 Coded Modulation, SS
- EI74121 Machine Learning in Communications, WS

Security and Storage Coding

- EI71070 Advanced Cryptographic Implementations, SS
- EI79001 Advanced Topics in Communications Systems, SS

- E170320 Channel Coding, WS/SS
- E171087 Coding Theory for Storage and Networks, SS
- E171084 IoT Security, WS/SS
- E171029 Physical Unclonable Functions, WS
- E171060 Security in Communications and Storage, WS

Wireless Networks

- E17450 Analysis, Modeling and Simulation of Communication Networks, SS
- E17644 Communication Network Reliability, SS
- E171018 Machine Learning in Communications, WS
- E17436 MIMO Systems, WS
- E17353 Multi-User Information Theory, SS
- E17432 System Aspects in Communications, WS

Optical Networks

- E17644 Communication Network Reliability, SS
- E171067 Digital Signal Processing for Optical Communication Systems, SS
- E15075 Optical Communications Systems, WS
- E17633 Optical Networks, SS

Quantum Communication

- E171064 Introduction to Quantum Networks, WS/SS
- E171073 Quantum Computers and Quantum Secure Communications, SS
- E176471 Quantum Information Theory, SS

E17432 System Aspects of Communications, Viering, WS

- E17450 Analysis, Modelling and Simulation of Communication Networks, SS