

**Minor Field of  
Comprehensive  
Examination**

Computer Controlled and Distributed Systems

**Syllabus**

Computer-based systems and their communication. Connection systems, most frequently used communication methods. Basic principles and methods of computer controlled systems. Network systems, integrated solutions and their computer aided tools. Measurement, data acquisition and processing tools and techniques. Sensors and actuators.

**Bibliography**

1. **Bolch, G., Greiner, S., Trivedi, K.:** Queueing Networks and Markov Chains, J. Wiley, 1998, 2002
2. **Gross, D., Harris, C. :** Fundamentals of Queueing Theory, John Wiley, New York, 1985
3. **Daigle, J.N.:** Queueing Theory for Telecommunications, Addison-Wesley, 1992
4. **Lakatos, L., Szeidl, I., Telek, M.:** Introduction to Queueing Systems with Telecommunication Applications, Springer, New York, 2013