

MSc diploma subject proposals 2017/18

Specialization: Teleinformation Networks and Systems

- 1. Simulation model of the service system with selfsimilar traffic**
- 2. Analysis of the switching networks in optical networks with the Dynamic Flexible Frequency Grid**
- 3. Methods of the measurement of QoE parameters**
- 4. Implementation of virtual environment based on the ADVA FSP 150-ProVMe**
- 5. Analytical traffic model of a multidomain IMS/NGN including service and transport stratum**
- 6. Design of a multidomain IMS/NGN architecture elements**
- 7. Review and research of features extractors for steganalysis**
- 8. Symbol timing synchronization in QAM demodulator**
- 9. Fractional delay filter structures**
- 10. Use of meta-heuristic algorithms in design of VFD filters implemented in DFT domain**
- 11. Evaluation of the quality a real time clock synchronization in the GEAPON access network area**
- 12. Analysis of next-generation passive optical network transmission capabilities**
- 13. Techniques to maximize the bandwidth of optical links in the optical transport network**