

## **MSc diploma subject proposals 2016/17**

### **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. Analytical traffic model of a multidomain IMS/NGN including service and transport stratum**
- 4. Simulation traffic model of a multidomain IMS/NGN including service and transport stratum**
- 5. Analytical traffic model of a multidomain IMS/NGN including service and transport stratum**
- 6. Review and analysis of steganographic methods for JPEG images**
- 7. Review, analysis and implementation of enciphering methods us-ing chaotic maps for multimedia transmission**
- 8. Design of VFD filters implemented in DFT domain with meta-heuristic algorithms**
- 9. Deterministic chaos in digital modulation**
- 10. Evaluation methods for quality of voice communication in VoIP network**
- 11. Possibillities using of service classes differentiation in optical ac-cess network GEPON**