

BSc diploma subject proposals 2013/14

Profile: Teleinformation Networks

- 1. OpenFlow protocol and its application**
- 2. Classification methods of packet streams**
- 3. Computational tools for the service systems of selfsimilar streams**
- 4. Realization methods of the WFQ system**
- 5. Software for designing the package network**
- 6. Application to determining routes in the domain**
- 7. Laboratory station for DiffServ architecture functionality testing**
- 8. GMPLS optical network work monitoring by using FSP Network Manager**
- 9. Configuration of FSP 3000 R7 ADVA Optical Networking devices**
- 10. Analysis of resource control and traffic handling procedures in the Flow State Aware (FSA) technology for the IMS/NGN architecture**
- 11. Self-similarity of packets streams in the IP network**
- 12. Protocols analysis of supporting QoS point of view**
- 13. Analysis of resource control and traffic handling procedures in the Ethernet technology for the IMS/NGN architecture**
- 14. Analyser of digital image sub-pixels**
- 15. Analyser of DCT coefficient statistical properties for steganographically modified images**
- 16. The application demonstrating modifications of linear block codes**
- 17. Timing signal recovery from error signal of Gardner detector**
- 18. Application of YATE server as gateway controller**
- 19. ERLANG programming language in telecommunication applications**
- 20. Comparison of queueing and traffic handling mechanism in Cisco routers**
- 21. Evaluation of impulsive disturbances effect on transmission quality in xDSL systems**
- 22. Software analyzer of phase fluctuation for E1 interface signals**

- 23. Software analysis of transmission errors for data transmitted between computers**
- 24. Software analysis of transmission delay variation for data transmitted between computers**