

BSc diploma subject proposals 2015/16

Profile: Teleinformation Networks

- 1. Analysis of the OpenDayLight environment for the realization of the SDN conception**
- 2. Software Package to PIRT**
- 3. Assessment of the Internet traffic self-similarity in the PG network**
- 4. Laboratory based on NETFPGA cards**
- 5. Review of optical switches solutions**
- 6. Conception of ASON/GMPLS architecture and its application in optical networks realizations**
- 7. Analysis of quality parameters for ASON/GMPLS optical network architecture**
- 8. Analysis of optical resources reservation based on ADVA Optical Networking devices**
- 9. Convergent telecommunication network based on Platan Proxima and DGT Millenium telephone exchanges**
- 10. Analysis of queuing system models for IMS/NGN architecture**
- 11. Ceph storage architecture**
- 12. Analysis of the performance of DPDK library**
- 13. Software implementation of joint fingerprinting and decryption method**
- 14. Software analyzer of statistical properties of binary series**
- 15. Software implementation of visual cryptography methods**
- 16. Software analyzer of DCT coefficients statistical properties for JPEG images**
- 17. Laboratory for IP QoS DiffServ network evaluation on CISCO routers**
- 18. Laboratory for IAX protocol evaluation**
- 19. Signaling System no. 7 in VoIP telecommunication servers**
- 20. Transport of Signaling System no. 7 over VoIP network**
- 21. Application of OSN servers in internetwork gateways**

- 22. Syslog server for telecommunication equipment**
- 23. Virtualisation of telecommunication servers**
- 24. Erlang Open Telecommunication Platform**
- 25. Software analysis of phase fluctuation for interface E1 signals**
- 26. Selective measurement of signal level by using of data from digital oscilloscope**
- 27. Evaluation of the suitability of copper access network for xDSL systems**
- 28. Requirements for quality of “triple play” services in copper access network**
- 29. Realization of TV distribution service in laboratory access network FTTB/C**