BSc diploma subject proposals 2019/20

Profile: Teleinformation Networks

1. **Decoding of iterative codes using Tanner graph**

2. **Software noise generator with a given probability distribution and power density spectrum**

3. **Design and implementation of two-dimensional bar code based on polar code**

4. **Resource control procedures in IMS/NGN network based on the SDN concept in the transport stratum**

5. **Client Application for SDN Controller**

6. **Laboratory for VoIP technology solutions using the Datera Call-eX exchange reporting system**

7. **Laboratory of PBX for VoIP technology solutions using open source software**

8. **Packet switching network solutions analysis**

9. **Software analyzer of binary sequences**

10. **Overview of the applications of Deep Learning techniques in telecommunications**

11. **Educational Solution Demonstrating Cryptographic Subjects Using Raspberry Pi Minicomputers**

12. **An application demonstrating issues of digital signature**

13. **An application demonstrating cryptographic properties of the DES algorithm**

14. **Internetworking of signalling gateways with DGT Millenium switching system**

15. **Laboratory testbed to evaluate SNMPv3 protocol**

16. **Server for provisioning and monitoring VoIP terminals and internetworking gateways**