**COURSE\_WORKS-List**

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| No. | **Title** | **Name** | **Surname** | **Selection** |
|  | PKI (Public Key Infrastructure) application in VPN. |  |  |  |
|  | PKI (Public Key Infrastructure) application in https:// protocol. |  |  |  |
|  | Software authentication system implementation in Linux OS. |  |  |  |
|  | Go-Trust microSD security functions overview: <http://www.go-trust.com/> |  |  |  |
|  | Go-Trust: **Mobile PKI** : Mobilize PKI applications and seamless migration: <http://www.go-trust.com/> |  |  |  |
|  | Go-Trust: **Email Signing** : Android email client is able to sign and encrypt email by hardware protected X509.v3 certificate. |  |  |  |
|  | Go-Trust: **Mobile VPN** : Inside Secure IPSEC v6 Android VPN client integrates GO-Trust secure microSD. |  |  |  |
|  | Go-Trust: **Privacy Protection** : Personal data is able to encrypted to store either in microSD or Cloud and portable from phone to phone |  |  |  |
|  | Go-Trust: **Fully Encrypted Voice & Text** : Secure Call, SMS, IM and File Transfer. |  |  |  |
|  | Go-Trust: **Low Cost HSM** : Supports PKCS#11 and stores 200 different keys. |  |  |  |
|  | Go-Trust: **Secure Transaction** : Mobile Banking, Payment, Balance checking, POS terminal. |  |  |  |
|  | Go-Trust: **FIDO Login** : Make billions of devices FIDO Ready™ and FIDO portable. |  |  |  |
|  | Go-Trust: **NFC Mobile Payments** : The first secure microSD supports Android HCE to complete mobile payment without keys in the cloud. |  |  |  |
|  | Motorolla cryptographic microSD card functions overview and applications. |  |  |  |
|  | Motorolla cryptographic microSD card Elliptic Curve Cryptosystem realization. |  |  |  |
|  | Elliptic Curve Cryptosystem (ECC) key generation and signing in OpenSSL platform. |  |  |  |
|  | Solidity programming in Ethereum. |  |  |  |
|  | Python classes and interfaces for Ethereum application: transactions, smart contracts, tokens. |  |  |  |
|  | Go classes and interfaces for Ethereum application: transactions, smart contracts, tokens. GEther. |  |  |  |
|  | Tokens realization in Ethereum. |  |  |  |
|  | Security of Internet of Things (IoT) overview. |  |  |  |
|  | Identification system based on passive NFC (Near field communication) tags. |  |  |  |
|  | Identification system based on active NFC (Near field communication) tags. |  |  |  |
|  | E-signature realization in NFC (Near field communication) tags. |  |  |  |
|  | DRM (Digital Rights Management) systems. |  |  |  |
|  | Marlin DRM overview. |  |  |  |
|  | Traitor tracing systems overview. |  |  |  |
|  | Traitor tracing system in Marlin DRM. |  |  |  |
|  | Group Key agreement protocol for teleconferences encryption. |  |  |  |
|  |  |  |  |  |
|  | PKI and certificates implementation in Linux OS. |  |  |  |
|  | PKI and certificates implementation in Android OS. |  |  |  |
|  | PKI and certificates implementation in Windows OS. |  |  |  |
|  | PKI and certificates implementation in Apache server. |  |  |  |
|  | Ring signatures and their applications. |  |  |  |
|  | Group signatures and their applications. |  |  |  |
|  | Proxy signatures and their applications. |  |  |  |
|  |  |  |  |  |
|  | Fast software encryption (FCE) methods overview. |  |  |  |
|  | Cybercrimes and forensic method’s overview. |  |  |  |
|  |  |  |  |  |
|  | WiFi security overview. |  |  |  |
|  | BlueTooth security overview. |  |  |  |
|  | Certificate generation by OpenSSL |  |  |  |
|  | Payment systems overview and comparison with paysera.lt |  |  |  |
|  | BitCoin. |  |  |  |
|  | Ethereum. |  |  |  |
|  | Monero. |  |  |  |
|  | Nem XEM. |  |  |  |
|  | Anonimity in blockchain overview. |  |  |  |
| 51. | Value chain realization and Smart contracts in Ethereum. |  |  |  |
| 52. | IBM Hyperlrdger Fabric. |  |  |  |
| 53. | IBM Food Trust. |  |  |  |
| 54. | STO - Secure Token Offer. |  |  |  |
| 55. | NFT – Non-Fungible Tokens. |  |  |  |
| \*. | Analysis of cryptocurrencies ratings in the past: 1, 2 years ago and their future forecasts up to nowdays. |  |  |  |