

**Topics of theses**  
on speciality 5B060200- Computer Science  
2019-2020 academic years

- 1) Development of instance
- 2) Development of a computer game on UNITY engine
- 3) Sale of goods company «Liner» based on Data mining
- 4) Optimization of Automatic Program Source Code Testing Process
- 5) Development of an online learning resource on web programming
- 6) Development of the site for the provision of legal services
- 7) Website development for people with hearing impairments
- 8) Development of a template of the training web-site
- 9) Android Puzzle game application development
- 10) Methods and algorithms for developing an online bookstore
- 11) Development of the mobile application for object recognition based on Machine learning
- 12) Using web technologies in the library activities
- 13) Creating secure applications on the Android platform
- 14) Designing User Interface Using JavaFx
- 15) Creating a personal wallet for the Android platform
- 16) Creating the basics of the JAVA language in Android application
- 17) Creation of an electronic clothing store website
- 18) Using the Prolog Logic Interpreter in Applications Written in Other Programming Languages
- 19) Design of the system of processing the results of examinations of the student
- 20) Development of a web-site for learning Latin graphics
- 21) Development of IOS applications with AR technology for presenting attractions
- 22) Handwritten character recognition using Neural Network
- 23) Natural languages processing in Python programming language
- 24) Child safety monitoring program created in Android Studio environment
- 25) Development of a Web site for training in C ++ programming
- 26) Develop Map-Reduce Applications with Hadoop
- 27) The ways of cross-platform application development
- 28) Prediction of bank customers solvency based on Data mining methods
- 29) Creating website for an interactive excursion using QR code technology

- 30) Development of a web resource for employees of Digital Agency LLP using the Asp.netcore MVC framework
- 31) Methods of application development for the IoT devices
- 32) Development of a tourist and information website
- 33) Development of the mobile application for Korean self-study in Kazakh language
- 34) Creating an online clothing constructor using Asp.net core
- 35) Definition of flat value using based on Machine Learning
- 36) Developing an application for teaching the Kazakh language to foreigners in the Android environment
- 37) Mobile application for learning the Chinese language
- 38) Implementing Augmented Reality Technology in Education
- 39) Modeling billing system business processes
- 40) Development of a specialized text editor for mobile platforms
- 41) Using Autodesk Maya Animation Techniques and Tools
- 42) Development of mobile application for chain store in the Android environment
- 43) Development of application for iOS using augmented reality technology to show the car salon «Toyota center»
- 44) Modeling by using Autodesk Maya Embedded Language MEL
- 45) Development of Android mobile application for the learning process
- 46) Neural network recognition of license plates of a car
- 47) Development of mobile Android-application for automating car dealership
- 48) Creating three-dimensional animation in 3D studio max
- 49) Development of a software application for digital image processing and correction
- 50) Development of 3D animation of given objects
- 51) Development of a web and a mobile version application for Republican state enterprise on the basis of economic conduct «engineering center of management of material and technical support»
- 52) Development of a mobile application for a virtual guide to the city of Nur-Sultan
- 53) Development of programs in mathematics for school graduates
- 54) Development of Latin square random number generator
- 55) Designing an Effective User Interface
- 56) Kazakh text Sentiment Analysis
- 57) The creation of a knowledge base crossfit clubs in Astana
- 58) Development of the portal of the consumer co-operative apartments
- 59) The development of youth information portal, as an example of Pavlodar region
- 60) Development geocoding address data system, the example of South-Kazakhstan region
- 61) Modelling of activity of the bank manager with CASE technology
- 62) The creation of a knowledge base state authority in Astana
- 63) The creation of a knowledge base public catering in Astana

- 64) Named entity recognition for Kazakh texts
- 65) Methods of processing images in systems augmented reality

### **Topics of theses**

on speciality «5B100200 - Information Security Systems»  
2019-2020 academic years

- 1) Implementation of SQL injection vulnerability search using Google Dork
- 2) Implementation of information security geographic information systems in the company LLP «GeoKarta»
- 3) Protecting documents using the application Cyber Safe Top Secret
- 4) Control system and access control in LLP «Tilekshi»
- 5) Two-factor authentication by determining typing style
- 6) Methods of ensuring the security and integrity of information in the electronic money system
- 7) Network traffic analysis with program Wireshark
- 8) Unauthorized access detection through IPTABLES on Linux
- 9) Cryptographic ciphers in the security of electronic digital signature
- 10) Protecting databases from SQL attacks
- 11) The method of stenography for the protection of information
- 12) Data Protection development in Oracle system
- 13) Simulation of network attacks for testing information security tools
- 14) Digital watermarks for copyright protection of digital content
- 15) Development of audio authentication application
- 16) Development of a data protection system in a mobile application
- 17) Protection against DDOS attacks
- 18) Tools for Working with Large Numbers in Modern Cryptography
- 19) Documentation support of information security of the enterprise
- 20) Development of a security and protection system for the organization against emergencies
- 21) QR Code Security Methods
- 22) «Computer Networks Security Testing» Web Service
- 23) Development of the program for interactive training
- 24) Methods for creating EDS
- 25) Development of Cryptography- Based Secure Messaging system
- 26) Ensuring information security of the customer data processing system in the bank
- 27) ARP-spoofing attack detection
- 28) Secure computer networks based on Cisco ASA technologies
- 29) Role-based methods for accessing encrypted databases
- 30) Kali Linux application for mobile unauthorized access testing
- 31) «The development of the prototype of the cryptographic service provider on the basis of a public key algorithm»

- 32) «Research methods to gain unauthorized access to the database and methods of protection against them»
- 33) «Provide information security for bank payment cards»
- 34) «Risk assessment of the information security of local computer network»
- 35) «Rate of threats from hackers»
- 36) «Research of MITM attacks based on protocol and methods of protection against them»
- 37) «Automation of extracting forbidden content from social networks»
- 38) «Detection of Internet-resources with forbidden content»
- 39) «Methods of concealing data and messages, digital watermarks»
- 40) «Multilevel protection of information systems»

Considered at the meeting of the department of Informatics and information security Protocol №2 of 21, september 2019

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and information security



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