

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
NAO "Eurasian National University named after L.N. Gumilyov"

APPROVE
Dean of the Faculty of Information
technologies

Seilov Sh.Zh.
"13" 03 2023

REPORT
about research work
Department of "Information Security"
(name of department)
for 2022

CONSIDERED
at a meeting of the Faculty Council / *at a meeting of the department*
Protocol №_
"_" 2022

Astana - 2022

1. STAFF

1.1 Holders of awards, honorary titles (international, republican):

1) State awards:

Order of the Republic of Kazakhstan (Highest award of perfection of honors Order “Altyn Kyran” (order Gold Eagle), " Halyk kaharmany "(order National hero), "Kazakhstannyn Enbek Epi " (Labor Hero of Kazakhstan), "Otan" (Mother country order), "Barys"(Order Panther), "Dank"(order of glory), "Aibyn"(Order of virtue), "Parasat"(Order of nobility), "Kurmet ")

Medals of the Republic of Kazakhstan ("Erligi ushin"(order for courage), "Zhayyngerlik erligi ears"(order for martial prowess), "Eren enbegi ushin"(order for labor perfection), "Shapagat"(order of Mercy))

Honorary titles of the Republic of Kazakhstan ("Kazakhstannyn enbek sinirgen kayratkeri")

2) Departmental awards: Breastplate«Y. Altynsarin», Breastplate «Gylymdy ladytuga sinirgen enbegi ushin», Breastplate«Bilim take isinin Kurmetti kyzmetkeri», Breastplate «Madeniet salasyn Uzdigi»

3) The best university lecturers

4) Membership in Academies

5) Holders of international titles and diplomas

6) Diplomas of ministries and departments

7) Other

Letters of thanks from the AMANAT Party:

- Sarukhanova Zh.S.
- Konyrkhanova A.A.
- Tashatov N.N.
- Shayakhmetova G.B.
- Isainova A.N.
- Azieva N.T.
- Aimicheva G.I.
- Tokkulieva A.K.
- Tashtai B.A.
- Mukusheva N.J.
- Kayupov E.K.
- Zharaskhan N.Zh.
- Bekeshova G.B.

1.2 Received awards in the field of science, scientific scholarships (including "Bolashak") in the Republic of Kazakhstan

	FULL NAME, Science degree, position	Competition name, date and venue	Result
1	no information	-	-
<i>Total: -</i>			

1.3 Science awards, scholarships, grants (ErasmusMundus , Tempus , DAAD, etc.) received abroad

No.	FULL NAME, science. degree, position	Competition name, date and venue	Result
1	no information	-	-
<i>Total:-</i>			

1.4 Presence of scientific schools

2. MAIN RESULTS OF SCIENTIFIC ACTIVITIES OF THE STAFF

2.1. Main (significant) results of scientific activity

Lecturers of the department "Information Security" implement research activities in conjunction with the Research Institute "Information Security and Cryptology".

The Research Institute "Information Security and Cryptology" has been functioning since 2012 ([http://iisc.kz /](http://iisc.kz/)) . The director of the Institute is Ph.D., PhD, Assoc.Professor (Associate Professor), Head of the Department "Information Security" Satybaldina D.Zh. (since October 2022) Research and development activities of the Institute are implemented in the following areas:

1. Security of information systems;
2. Encoding and protection of information;
3. Applied Cryptography;
4. Security in Cloud computing;
5. Hardware protection of information;
6. Development of crypto algorithms;
7. Software solutions.

To carry out the activities of the Research Institute "Information Security and Cryptology" has:

- "Cyber Shield: research and development of a cryptographic hashing algorithm", scientific supervisor Seitkulov E.N., ICRIAP grant, 2020-2022;
- "Cyber Shield: development of lightweight cryptographic systems and information security technologies for the Internet of Things", scientific supervisor Seitkulov E.N., ICRIAP grant, 2020-2022
- "Research and development of methods and means of generating S-blocks for symmetric cryptographic algorithms", scientific supervisor Seitkulov E.N., 2021-2023.
- "Research and development of a cryptographic system for backup storage of confidential data in secure servers", scientific supervisor Seitkulov E.N., 2022-2024.
- "Development of a new wearable robotic exoskeleton for rehabilitation of the ankle joint", scientific supervisor - Postdoctoral fellow of the Department of IB Balbayev G. K. 2022-2024.

The department implements the following projects:

• "Development of models and algorithms for processing and transferring sensory data in the production of multi-task gas analytical systems", scientific supervisor Satybaldina D.Zh., 2022-2024.

2.2 Scientific publications in international scientific publications Web of Science (*submit a "screenshot" from the database*):

No. p/n	FULL NAME. author(s) (indicate in English)	Publication title	Name of the journal, year, number, pages, ISSN	journal impact factor
<i>department</i>				
1.	Shingissov, D., SeilovShakhmaran , Goikhman, V., Sokolov, N., Akhmetova, Z., Uskenbayeva, G., Rzayeva, L.	Study of the Process of Packet Arrival at a Multiservice Node	SYMMETRY-BASEL.-2022.- Vol.14, Issue: 4, Article Number: 752 DOI:10.3390/sym14040752 Accession Number: WOS:000785110300001 eISSN:2073-8994 квартиль Q2	2.713
2.	A. Ospanova , A. Zharkimbekova, L. Kussepova, A. Tokkuliyeva , M. Kokkoz	Cloud Service for Protecting Computer Networks of Enterprises Using Intelligent Hardware and Software Devices Based on Raspberry Pi Microcomputers	Acta PolytechnicaHungarica– Vol. 19, No 4, 2022. pp. 85-103, ISSN 1785-8860	1.806
3	Baenova G; Sukhinin S; Zhumadillayeva A; Dyussekeyev K; Akhmetova Z ; Zhunissov N; Glazyrina N; Julamanova Z	Features of the Propagation of Long Waves in Phononic Crystals, the Influence of the Concentration and Polydispersity of the Components	APPLIED SCIENCES-BASEL, 2022, 12(7), 3241	2.838
Total: 3				

2.3 Hirsch index according to the Web of Science database:

No. p / p	FULL NAME. sci. degree, position	h- index
1	Satybaldina D.J., Ph.D., k.f.-m.n., Assoc.professor (associate professor), head of the Department	3
2	Seitkulov E.N., Ph.D., k.f.-m.n., Associate Professor, Acting Professor	2
3	Shaikhanova A.K.PhD, assoc.Professor, Acting Professor	2

4	Nurusheva A.M., PhD, Acting Associate Professor	3
5	Ospanova A.B., k.f.-m.n., Acting Associate Professor	1
6	Sagindykov K.M., Candidate of Technical Sciences, Associate Professor	1
7	Seilov Sh.Zh., Candidate of Technical Sciences, Doctor of Economics Professor	2
8	Tashatov N.N., k.f.-m.n., Acting Associate Professor	1
9	Konyrkhanova A.A., PhD, Acting Associate Professor	1
10	Shayakhmetova G.B., Master's degree, senior lecturer	1
11	Aimicheva G.I., Master, senior lecturer	3
12	Akhmetova Zh.Zh. PhD, acting associate Professor	2
13	Tashenova Zh.M., PhD, senior lecturer	1
14	Urynbasarova A.Zh., Master, senior lecturer	1
15	Karzhaspayeva A.E., Master, senior lecturer	1
16	Issainova A.N., Master, senior lecturer	1
total: 16		

2.4 Scientific publications in international scientific publications Scopus (*submit a "screenshot" from the database*):

No. p/n	FULL NAME. author(s) (indicate in English)	Publication title	Name of the journal, year, number, pages, ISSN	journal impact factor (SJR)
<i>department</i>				
1	Boranbayev S., Amrenov A., Nurusheva A. , Boranbayev A., Goranin N.	Methods and Techniques of Information Security Risk Management During Assessment of Information Systems.	In: Arai, K. (eds) Advances in Information and Communication. FICC 2022. pp. 787-797. Lecture Notes in Networks and Systems, vol 439. Springer, Cham. https://doi.org/10.1007/978-3-030-98015-3_53 ISBN 978-3-030-98014-6	0.151

2	Yergaliyeva, B.B., Seitkulov, Y.N., Satybaldina, D.Zh.	Methods for the secure use of external servers to solve computationally-complex problems with secret parameters	Journal of Theoretical and Applied Information Technology, 2022, 100(1), pp. 235–245. ISSN 19928645	0.195
3	Yergaliyeva, B., Seitkulov, Y., Satybaldina, D., Ospanov, R.	On some methods of storing data in the cloud for a given time	TELKOMNIKA (Telecommunication, Computing, Electronics and Control), Vol 20, No2, 2022, pp. 366-372. ISSN:1693-6930 E-ISSN:2087-278X DOI: 10.12928/telkomnika.v20i2.21887	0.314
4	A. Boranbayev, S. Boranbayev, N. Sissenov, Y. Seitkulov, A. Mussabekov, A. Nurbekov	Software System for Determining the Level of Reliability and Fault-Tolerance of Information Systems	Lecture Notes in Networks and Systemsthis link is disabled, 2022, 360 LNNS, pp. 495–505 ISBN 978-303089911-0 DOI 10.1007/978-3-030-89912-7_38	0.151
5	Shingissov, D., Seilov Sh., Goikhman, V., Sokolov, N., Akhmetova, Z.,Uskenbayeva, G., Rzayeva, L.	Study of the Process of Packet Arrival at a Multiservice Node	SYMMETRY-BASEL.-2022.- Vol.14, Issue: 4, Article Number: 752 DOI:10.3390/sym14040752 eISSN:2073-8994	0.540
6	Zh. Tashenova, Zh. Abdugulova, E. Nurlybaeva, A. Tulegulov, D. Yergaliyev	Research and development of personal data protection systems in enterprises	Journal of Theoretical and Applied Information Technology 15th April 2022. Vol.100. No 7 ISSN: 1992-8645	0.195
7	K. Sagindikov, A. Konyrkhanova, K. Shakerkhan, S. Anibayev, V. Meshechkin, Y. Abilmazhinov	Bioreactor of Horizontal Type Taking Local Weather and Economic Factors into Account	Springer Nature Singapore Pte Ltd. 2022 X. Li et al. (Eds.): Proceedings of the 5th International Conference on Economic Management and Green Development, AEPS, pp. 1–9, 2022. DOI: 978-981-19-0564-3_1	0,2
8	N. N. Tashatov, M. A. Seksembayeva, G. V. Ovechkin, D.Satybaldina, Y.N. Seitkulov	Interference immunity and energy efficiency of digital communications systems in multipath channel with fading	Indonesian Journal of Electrical Engineering and Computer Science Vol. 27, No. 3, September 2022, pp. 1412~1418 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v27.i3.pp1412-1418	0.276

9	Zh. Avkurova, S. Gnatyuk B. Abduraimova	Structural and Analytical Models for Early APT-Attacks Detection in Critical Infrastructure	Communications in Computer and Information Science Volume 1635 CCIS, Pages 455 - 468	0.209
10	Tashatov N.N.; Seksembayeva M.A.; Seitkulov Y.N.; Ovechkin G.V.	Modeling of communication channels with multipath propagation of signals by noise-immunity coding procedures in the frameworks of LTE standard	Radioelektronika, Nanosistemy, Informacionnye Tehnologii. Volume 14, Issue 1, Pages 73 – 78. ISSN 22183000, DOI 10.17725/rensit.2022.14.073	0, 232
11	Ospanova, A., Zharkimbekova, A., Kussepova, L., Tokkuliyeva, A., Kokkoz, M	Cloud Service for Protecting Computer Networks of Enterprises Using Intelligent Hardware and Software Devices, Based on Raspberry Pi Microcomputers	Acta Polytechnica Hungarica Volume 19, Issue 4, Pages 85 – 103 ISSN 17858860 DOI 10.12700/APH.19.4.2022.4.5	0.380
12	Seilov, A., Seilov, S., Zhursinbek, Y.	Choosing a strategy for the long-term development of the communication system for rural areas	Journal of Theoretical and Applied Information Technology. Volume 100, Issue 12, Pages 4577 – 4589 ISSN 19928645	0.195
13	Ospanov R.M. Seitkulov Ye.N.; Yergaliyeva B.B.	A cryptographic hash function based on a modified sponge scheme	Eurasian Journal of Mathematical and Computer Applications. Volume 10, Issue 2, Pages 55 – 70 ISSN 23066172 DOI 10.32523/2306-6172-2022-10-2-55-70	0.315
14	M.U.Bhat, A.H.Dar, D.Urynassarova, A.Urynassarova	Quadratic-phase wave packet transform	Optik. Volume 261 July 2022 Article number 169120 ISSN 00304026 DOI 10.1016/j.ijleo.2022.169120	0.523
15	Kulambayev, B., Beissenova G.; Katayev N.; Abduraimova B.; atall.	A Deep Learning-Based Approach for Road Surface Damage Detection	Computers, Materials and Continua Volume 73, Issue 2, Pages 3403 – 3418 ISSN 15462218 DOI 10.32604/cmc.2022.029544	0.666
16	Akbayeva A.A. Mubarakov A.M.; Abduraimova B.K.; Omarbekova A.S.; Sadvakassova K.Zh.; Alimagambetova A.Z.; Kochegarov, I.	Designing assessment tools for quality assurance in education	Journal of Theoretical and Applied Information Technology. Volume 100, Issue 10, Pages 3421 – 3431 ISSN 19928645	0.195

17	Basinya E.A. Akhayeva Z.H.B. Zakirova A.B. Omarkhanova D.Z.H. Tolegenova G.B. Abduraimova B.K. Aldasheva L. Zhanayeva Z.H.A.	System of a self-organizing virtual secure communication channel based on stochastic multi-layer encryption and overlay technologies	Journal of Theoretical and Applied Information Technology. Volume 100, Issue 16, Pages4918 – 4927 ISSN19928645	0.195
18	Ospanova, A.; Kusseпова, L.;; Tuleuov, B.;; Shakhmetova, G.; Sabyrova, M.;; Zharaskhan, N.	Cloud Services Projects to Support Small and Medium-Sized Businesses and Approaches for their Commercialization	13th National Conference with International Participation, ELECTRONICA 2022 ISBN978-166548100-7 DOI 10.1109/ELECTRONICA55578.2022.9874426	-
19	Bekeshova G. Ibragimov N. Kakimov A. Suychinov A. Yessimbekov Z. Tokhtarov Z. Zhumadilova G. Abdilova G.	Effect of Rotational Speed and Gap between Rotating Knives of the Grinder on the Yield Stress and Water-Binding Capacity of Fine Ground Chicken Bone	Applied Sciences (Switzerland) 2022, 12, 3533. https://doi.org/10.3390/app12073533	0.507
20	Kintonova, A., Povkhan, I.F., Sabitov, A., Tokkuliyeva, A., Demidchik, N.	Online Learning Technologies	(2022) ENERGYCON 2022 - 2022 IEEE 7th International Energy Conference, Proceedings https://www.scopus.com/inward/record.uri?eid=2-s2.0-85136116083&doi=10.1109%2fENERGYCON53164.2022.9830387&partnerID=40&md5=f11c8e81544d4e462e4db26636bec8fa DOI: 10.1109/ENERGYCON53164.2022.9830387	0.87
<i>Total: 20</i>				

2.5 Hirsch index according to the Scopus database:

No. p/n	FULL NAME. sci. degree, position	h- index
1.	Satybaldina D.J.	5

2.	Seitkulov E.N.	9
3.	Shaikhanova A.K.	4
4.	Nurusheva A.M.	12
5.	Ospanova A.B.	2
6.	Sagindykov K.M.	2
7.	Abduraimova B.K.	2
8.	Seilov Sh.Zh.	2
9.	Tashatov N.N.	5
10.	Konyrkhanova A.A.	1
11.	Shayakhmetova G.B.	1
12.	Aimicheva G.I.	3
13.	Akhmetova Zh.Zh.	3
14.	Santeeva S.A.	2
15.	Tashenova Zh.M.	1
16.	Tokkulieva A.K.	1
17.	Sarukhanova Zh.S.	1
18.	Urynbasarova A.J.	1
19.	Karzhaspayeva A.E.	1
20.	Isainova A.N.	1
21.	Bekeshovag G.B.	2
<i>Total:21</i>		

2.6. Publications in journals not included in the Web of Science and Scopus databases

a) in foreign journals (RSCI, etc.)

No. p/n	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	Tleugaliyev E.U. Sagindykov K.M.	Monitoring system to ensure information security in the corporate network	Annalid'Italia №31/2022 – c. 139 - 141 ISSN 3572-2436
2	A. Ospanova, B. Tuleuov, A. Zharkimbekova, A. Tokkuliyeva, B. Toksan	Linguistic Processor (Simplified) For Decision Support In The Computer Networks Testing	International Journal of Mechanical Engineering. – Vol. 7, No. 1, 2022. P. 3541-3549

3	Bekeshovag.B. Ibragimov N.K. Akimov A.K. Suichinov A.K. Isimbekov Zh.S. Rebezov M.B.	The effect of combined grinding on the technological characteristics of minced meat	Journal of Agrarian Science, 7-8, 2022
<i>Total: 3</i>			

b) in the journals of the Republic of Kazakhstan, included in the list of KKSON MES RK

No. p/n	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	Tashenova Zh.M., E.N. Nurlybayeva, Zh.K. Abdugulova, Sh.A. Amanzholova	Security and encryption methods in the cloud system	National Academy of Sciences of the Republic of Kazakhstan. Al-Farabi Kazakh National University. 2022, 1 (341), pp. 77-87
2	Ergalieva.B., Seitkulov E.N., Tashatov N.N., Satybaldina D.Zh.	Methods of secure cloud processing of large-dimensional matrix equations	Proceedings of the University, section "Energy, automation, ICT", 2022, №1 (86), - pp. 333-337. DOI 10.52209/1609-1825_2022_1_333 ISSN (print): 1609-1825
3	Seitkulov E.N., Ospanov R.M., Tashatov N.N., Ergalieva B.B., Satybaldina D.Zh.	A set of unconditional optimality criteria for s-blocks	Bulletin of the National Engineering Academy of the Republic of Kazakhstan. 2022. No. 1 (83).-pp.83-90. https://doi.org/10.47533/2020.1606-146X.144 ISSN (print): 2709-4693
4	Abdirahman A., Nurusheva A., Goranin N., Aldasheva L.	Designing A Model of Information Security Risk of an Information and Communication Infrastructure Object and Its Prevention on the Example of Satellite Communication Systems.	Proceedings of the University, section "Automation, energy, ICT", 2022, №3 (88), - pp. 374-379. DOI 10.52209/1609-1825_2022_1_333 ISSN (print): 1609-1825
5	Abdiraman A. Nurusheva A., Aldasheva L.	Analysis of methods of information security level assessment of information and communication infrastructure objects	Bulletin of the NIA RK, section "Technical Sciences and Technologies", 2022, No. 3. C. 8-15 ISSN 2709-4693 (Print), ISSN 2709-4707 (Online)

6	Ospanov R.M., Seitkulov E.N., Tashatov N.N., Semenov N.M., Ergalieva B.B.	Statistical testing of a cryptographic hash function based on a modified SPONGE scheme	KazATK vestnik - 2022. - № 2 (121), pp. 591-598.
7	Avkurova, Z., Gnatyuk, S., Abduraimova, B., Кыдыралина, Л.	MODELS OF STANDARDS AND GOVERNING RULES FOR THE SYSTEMS OF EARLY DETECTION OF APT-ATTACKS AND IDENTIFICATION OF VIOLATORS IN CYBERSPACE.	Izvestiya NAS RK. Physics and Mathematics Series, 2022, No. 3, pp. 19-51. https://doi.org/10.32014/2022.2518-1726.138 , ISSN 1991-346X(Print)
<i>Total: 7</i>			

c) in journals of the Republic of Kazakhstan that are not included in the list of KKSON MES RK

No	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
p/n			
<i>Department of Information Security</i>			
1.	no information	-	-
<i>Total: -</i>			

2.7. Scientific publications in the collections of conferences held in the Republic of Kazakhstan:

No.	FULL NAME. author (s)	Publication title	Name of the collection, year, p.
<i>department</i>			
1	Seksenbayeva.K Konyrkhanova A.A., Zhandoldanova G.E.	"Creating a logical file with two linked physical files"	Collection of materials of the International scientific conference "Priority areas of scientific research: analysis and management", ISBN 978-601-08-2169-9, April 14-15, Karaganda 2022, pp.211-214, 4283513.pdf (kazconf.com)
2	D.M.Beisekeev, K.M.Sagindykov	Classification of security threats in information systems	Collection of materials of the International Scientific Conference "XXII Satpayev readings" - Pavlodar – 2022 with
<i>Total: 2</i>			

2.8. Scientific publications in scientific conferences, symposiums, seminars abroad:

No.	FULL NAME. author (s)	Publication title	Name of the collection, year, p.	The country
<i>Department of Information Security</i>				
1.	A. Ospanova, B. Tuleuov, A. Zharkimbekova, A. Tokkuliyeva, B. Toksan	Linguistic Processor (Simplified) for Decision Support in the Computer Networks Testing	Proceedings of 7th International Conference on Recent Trends in Computer Science and Electronics, January 5-7, 2022, University of Hawaii, Manoa, Hawaii, USA, p. 58.	CIIA
2.	Aralov N., Sagindykov K.M.	Overview of network traffic monitoring and analysis tools	Innovative approaches in modern science. Collection of articles based on the materials of the CXVII International Scientific and Practical Conference - No. 9 (117). – Moscow, Publishing House "Internauka", May 2022. – pp.57-62. ISSN 2587-8603	Russia
3	Ademi B. Ospanova, Berik I. Tuleuov, Aizhan K. Tokkuliyeva, Lazzat T. Kusseпова, Aizhan T. Zharkimbekova	Intelligent Mobile Hardware-software Device for Automated Testing and Monitoring of Computer Networks Based on Raspberry Pi	Proceedings of the 2021 IEEE 15th International Conference of Actual Problems of Electronic Instrument Engineering (APEIE), Nov. 20, 2021, Novosibirsk, Russia. To be published	Russia
<i>Total:3</i>				

2.9 Number of published monographs in the Republic of Kazakhstan (if available, indicate the stamp of the Ministry of Education and Science of the Republic of Kazakhstan) (attach a copy of the title page; a copy of the page with the imprint of the publication, including UDC, ISBN / ISSN)

No.	FULL NAME. author (s)	Publication title	Name of publication (with indication of the city), number of p.l.	The presence of a neck is indicated MES RK or ISBN
<i>In English. language</i>				
1	A. B. Ospanova, B. I. Tuleuov.	Libraries for scientific computing and their application	Printing house of L. N. Gumilyov ENU, Astana, 010008, Kazhymukan str., 13/1.5, 12 pp.1.	ISBN 978-601-337-602-8
<i>Total:1</i>				

2.10 Organization and holding of scientific events at the faculty/department :

№	FULL NAME	Topic	Date and time (online)	scientific supervisor
Октябрь				
5 a week	Temirbay Samat (Bimbetov Samat Temirbaevich) (master's Student 2 course, Rus)	Development of proposals for improving information exchange technologies between an open Internet network and a closed (secure) local area network	29.10.2022 19.00 online https://clck.ru/ZAsbt	Nurusheva Asel Muratovna, PhD, Acting Associate Professor
	Seidualy Ayan Kozhanazaruly (master's student 2nd year, Rus)	Analysis of information security threats by economic sectors and development of methods for verifying the adequacy of the attacker's action model		Nurusheva Asel Muratovna, PhD, Acting Associate Professor
	Boranbay Zhandos Asylkhanuly (2nd year Master's student, rus)	Virtual training cyberpolygon for small groups		Satybaldina Dina Zhagiparovna, Ph.D., Acting Professor
	Mukanov Merey Amangeldievich (master's student 2nd year, Kaz)	Optimization of the centralized anti-virus system to ensure the protection of end devices in the corporate network		Tashenova Zhuldyz Musagulova, PhD, senior lecturer
November				
1 a week	Kuzembai Sholpan Aybakytbekovna (master's student 2nd year, Kaz)	Investigation of the effectiveness of key distribution protocols	05.11.2022 11.00 online https://clck.ru/ZAsbt	Satybaldina Dina Zhagiparovna, Ph.D., Acting Professor
	Medeuov Elzha Zhymanovich (2nd year Master's student, rus)	Research and development of technological requirements for the organization of an operational information security center for the financial platform of the Republic of Kazakhstan		Seilov Shakhmaran Zhursinbekovich, Candidate of Technical Sciences, Professor
	Serikkazin Ayan Yeseyuly (2nd year Master's student, kaz)	Investigation of information security audit processes		Nurusheva Asel Muratovna, PhD, Acting Associate Professor
	Zhaksygal Farabi Bolatovich (master's student 2nd year, Rus)	Research of digital forensics in information security incidents		Nurusheva Asel Muratovna, PhD, Acting Associate Professor
2 a week	Akhmetov Arslan Maratovich (master's student 2nd year, Rus)	Organization of metrological support during certification of critical information security objects	12.11.2022 11.00 online https://clck.ru/ZAsbt	Tashenova Zhuldyz Musagulova, PhD, senior lecturer
	Kozhakhmetov Akezhana Setovich (2nd year Master's student, rus)	Improving the methods and algorithms of the Virtual Cybersecurity laboratory for detecting technical channels of information leakage		Nurusheva Asel Muratovna, PhD, Acting Associate Professor
	Slyamov Erasyl Askatovich (2nd year Master's student, rus)	Investigation of traffic properties in Internet networks using the desktop network simulator "ITALEM"		Seilov Shakhmaran Zhursinbekovich, Candidate of Technical Sciences, Professor
	Sekerbek Assel Kairatovna (master's student 2nd year, Rus)	Investigation of the stability of the Yota network of the Solid waste Removal Information System		Seilov Shakhmaran Zhursinbekovich, Candidate of Technical Sciences, Professor

3 a week	Adylbekov Zhanel Erlanovich (2nd year Master's student, rus)	Research and protection of information in Ashyq systems	19.11.2022 11.00 online https://clck.ru/ZAsbt	Seilov Shakhmaran Zhursinbekovich, Candidate of Technical Sciences, Professor
	Niyazymbet Zhanat Bikeldikyzy (master's student 2nd year, Kaz)	Research and development of methods of personal data protection of the information system of the UNT RK		Seilov Shakhmaran Zhursinbekovich, Candidate of Technical Sciences, Professor
	Toktybayev Isa Askhatovich (master's student 2nd year, Kaz)	Research and management of network security based on Junos OS		Tashenova Zhuldyz Musagulova, PhD, senior lecturer
	Abdykhalyk Shynar Seralykyzy (master's student 2nd year, Rus)	Study of Penetration Testing methods using the Python language		Saukhanova Zhanat Sergazievna, Candidate of Physics and Mathematics, Associate Professor
4 a week	Karimzhanov Damir Nurzhanovich (2nd year Master's student, rus)	Development of systems for generating synthetic media content and research of Deepface detection methods	26.11.2022 11.00 online https://clck.ru/ZAsbt	Satybaldina Dina Zhagiparovna, Ph.D., Acting Professor
	Sydykov Daniyar Maratuly (2nd year Master's student, rus)	Research of facial recognition systems and methods of their circumvention		Satybaldina Dina Zhagiparovna, Ph.D., Acting Professor
	Omirbay Nurtaza Kolganatovich (master's student 2nd year, Kaz)	Using Palo alto to solve security and unauthorized intrusion issues in the ENU corporate network		Sagindykov Kakim Moldabekovich, Candidate of Technical Sciences, Associate Professor
	Salimova Danagul Bakytzhanovna (master's student 2nd year, Kaz)	Research of algorithms for embedding information in digital images		Sagindykov Kakim Moldabekovich, Candidate of Technical Sciences, Associate Professor
Декабрь				
1 a week	Alimkhanov Adil Ardakovich (2nd year undergraduate kaz)	Intelligent approaches to building a system for determining penetration into the corporate network of an organization	03.12.2022 11.00 online https://clck.ru/ZAsbt	Akhmetova Zhanar Zhumanova, PhD, Acting Associate Professor
	Zhaksybek Dias Meyrbekuly (2nd year Master's student, rus)	Antidisassembling methods used in malicious programs and ways to bypass them		Akhmetova Zhanar Zhumanova, PhD, Acting Associate Professor
	Ground Anton Vitalievich (2nd year master's student, rus)	Development of an information security method for the Internet of Things		Satybaldina Dina Zhagiparovna, Ph.D., Acting Professor
	Sharuev Andrey Alexandrovich (2nd year master's student, rus)	Development of a method for ensuring information security of machine learning systems		Satybaldina Dina Zhagiparovna, Ph.D., Acting Professor
2 a week	Manatbek Abylkair Kabibekovich (master's student 2nd year, Kaz)	Methods for increasing the stability of systems to cyber attacks	10.12.2022 11.00 online https://clck.ru/ZAsbt	Akhmetova Zhanar Zhumanova, PhD, Acting Associate Professor
	Asaubaev Ayan Serzhanovich (2nd year Master's student, rus)	Information security-organization and automation of processes for checking incidents and taking countermeasures		Akhmetova Zhanar Zhumanova, PhD, Acting Associate Professor

	Mukhamadiyev Madiyar Galelovich (master's student 2nd year, Rus)	Computer virus research methods based on dynamic analysis		Konyrkhanova Asem Adilbekkyzy, Candidate of Physics and Mathematics, Associate Professor
	Marzhan Nurgalikyzy (master's student 2nd year, Kaz)	"Study of the security of modern WEB technologies used in the implementation of the smart transport software complex"		Konyrkhanova Asem Adilbekkyzy, Candidate of Physics and Mathematics, Associate Professor
3 a week	Yeshmukhametov Yerlan Nurlanovich (master's student 2nd year, Kaz)	Network analysis tools for assessing vulnerabilities in corporate networks	17.12.2022 11.00 online (https://clck.ru/ZAsbt)	Ospanova Ademi Bekzhanovna Candidate of Physics and Mathematics., Acting Associate Professor
	Zayniken Ayaulym Toktasynovna (master's student 2nd year, Kaz)	Research of DLP systems and their role in protecting confidential information from leakage		Konyrkhanova Asem Adilbekkyzy, Candidate of Physics and Mathematics, Associate Professor
	Kali Aitkhanym Yerikovna (master's student 2nd year, Kaz)	Study of cloud computing protection methods against attacks on virtualization tools		Konyrkhanova Asem Adilbekkyzy, Candidate of Physics and Mathematics, Associate Professor
	Toksan Bekzat Abaykyzy (master's student 2nd year, Kaz)	Application of statistical laws of the Kazakh language in Cyrillic and Latin alphabets in cryptanalysis problems		Ospanova Ademi Bekzhanovna Candidate of Physics and Mathematics., Acting Associate Professor
4 a week	Rakhimzhanova Ainur Galymovna (master's student 2nd year, Kaz)	Ways to protect authentication data in web applications	24.12.2022 11.00 online (https://clck.ru/ZAsbt)	Sagindykov Kakim Moldabekovich, Candidate of Technical Sciences, Associate Professor
	Gabitova Albina Bauyrzhanovna (master's student 2nd year, Kaz)	Approaches to the study of Computer Information corruption events		Sagindykov Kakim Moldabekovich, Candidate of Technical Sciences, Associate Professor
	Aizhan Bakbergenovna (master's Student 2 course, Rus)	Development of adaptive deceptive models of information security systems based on reflexive control by an attacker for advanced information security systems		Tashenova Zhuldyz Musagulova, PhD, senior lecturer
	Mukanova Aikun Sabitkyzy (2nd year master's student, kaz)	Study of methods for verifying the correctness of the program		Saukhanova Zhanat Sergazievna, Candidate of Physics and Mathematics, Associate Professor

2.10.1 International conferences

No.	Name	the date of the	Number of participants/incl. foreign
1	no information	-	-
Total: -			

2.10.2 Republican conferences

No.	Name	the date of the	Number of participants/incl. foreign
1	no information	-	-
Total: -			

2.10.4 Summer (winter, spring) schools

No.	Name	the date of the	Number of participants/incl. foreign
1	no information	-	-
Total: -			

2.10.5 Scientific round tables

No.	Name	the date of the	Number of participants/incl. foreign
1	no information	-	-
Total: -			

2.12 Participation in the editorial board of journals not included in the Thomson Reuters, Scopus databases

№ p/p	Full name, academic degree, position	Name of the magazine	Period
1	Satybaldina D.J., Candidate of Physics and	Scientific and Analytical journal "Bulletin of the St. Petersburg	2022 y.

	Mathematics, PhD, Assoc.professor (associate professor), head of the Department	University of the Ministry of Emergency Situations of Russia", impact factor RSCI = 0.197	
2	Seilov Sh.Zh., Candidate of Technical Sciences, Doctor of Economics, Professor	INFORMATION TELECOMMUNICATION NETWORKS, OWNER OF BROADCAST AND TELECOMMUNICATIONS CONSULT LLP	Published since December 2000 . Published 6 times a year, 2022
3	Akhmetova Zh.Zh. PhD, acting associate Professor	INFORMATION TELECOMMUNICATION NETWORKS, OWNER OF BROADCAST AND TELECOMMUNICATIONS CONSULT LLP	Published since December 2000 . Published 6 times a year, 2022
<i>Total: 3</i>			

3. RESEARCH WORK OF STUDENTS

3.4 The number of scientific publications of students in the collections of conferences held in the Republic of Kazakhstan

No.	FULL NAME. author (s)	Publication title	Name of the collection, year, p.
<i>department</i>			
1.	Isainova A.N., Mayanov M.R.	Analysis of types of SQL injection attacks and methods of countering them	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
2	Kabiyev Nazarbek Scientific supervisor-Ospanova A. B.	Mobile Spy "Pegasus"	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
3	Yeshmukhametov Yerlan, Kulikhanov Adilet Scientific supervisor-Ospanova A. B.	Network intelligence tools for ensuring information security in a computer network	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
4	Toksan Bekzat, Myrzakul Zhansaya, Shashubay Ulan Scientific supervisor-Ospanova A. B.	Statistical patterns of Kazakh language and its applications in cryptanalysis	International Student Scientific and Practical Conference "YOUTH DIGITAL FORUM (YDF-2022)", MUIT, Almaty, March 31, 2022

5	Aidarbekov Aidiye Zhusippaliev Nurbakhyt Imasheva Kalamkas Amirshin Bakhtiyar Scientific supervisor – G. Shakhmetova	Non-fungible token technology as a part of different fields of new media, cyber security, crypto and even filmmaking	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
6	Myrzakul Zhansaya	Creation and efficiency of using a telegram bot in the educational process	International Student Scientific and Practical Conference "YOUTH DIGITAL FORUM (YDF-2022)", MUIT, Almaty, March 31, 2022
7	Abbasov Almazbek Alizhanovich Scientific supervisor – senior lecturer Akhaeva Zh.B.	Digital Kazakhstan	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
8	Alekseev Ilya Pavlovich Scientific supervisor –senior lecturer Akhaeva Zh.B.	Application of VR and AR in Kazakhstan	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
9	Kurgumbaev Adlet Muratkanovich Scientific supervisor, senior Lecturer Akhaeva Zh.B.	VR/AR technologies and their development	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
10	Toksan Bekzat, Myrzakul Zhansaya, Shashubay Ulan Scientific supervisor-Ospanova A. B.	Statistical patterns of the Kazakh language and their application in cryptanalysis	International Scientific Conference "XXII Satpayev Readings", Kazakhstan, Pavlodar, Toraigyrov University; April 12, 2022
11	Raikul Sayat Samatovich	Computer program Object name: STITS	Certificate of entry of information into the State register of rights to objects protected by copyright No. 27174 dated June 14, 2022
12	Torebekov B. B.	Type of copyright object: audiovisual work Object Name: Introduction to Cybersecurity	Certificate of entry of information into the State register of rights to objects protected by copyright No. 31065 dated December 12, 2022

Total:12

3.5 Number of scientific publications of students in collections of conferences abroad

No.	FULL NAME. author (s)	Publication title	Collection title, year, number, pages, ISSN	The country
1	no information	-	-	-
	Total: -			

3.6 List of students who received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan (*submit supporting documents in electronic form*):

No.	FULL NAME. student	departm ent	group number , course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel .	Email	Link to the organizer's website
1	Mayanov Madiyar	IB	SIB-44	Letter of thanks	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022	ENU, Nursulta n	+7-701-736-10-17	issainova_an@enu.kz	https://enu.kz/ru/nauka/sborniki-konferentsiy/
2	Kabiyev Nazarbayev	IB	SIB-25	April 12, Diploma of the 3rd degree	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022	ENU, Nursulta n	+77477518157	crazy5naz@gmail.com	https://enu.kz/ru/nauka/sborniki-konferentsiy/
3	Kulikhanov Adilet	IB	SIB-45	April 12, Diploma of the 2nd degree	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022	ENU, Nursulta n	+77079244804	adilet.0011@mail.ru	https://enu.kz/ru/nauka/sborniki-konferentsiy/

4	Myrzakul Zhansaya, Shashubai Ulan	IB	SIB-37, SIB-43	March 31, Diploma of the 2nd degree	International Student Scientific and Practical Conference "YOUTH DIGITAL FORUM (YDF-2022)"	MUIT, Almaty	+77059547600, +7 777 933 1001	zhansaya.myrzakul@mail.ru , u_shashubay@mail.ru	https://ydf.iitu.edu.kz/
5	Myrzakul Zhansaya	IB	SIB-37	March 31 Diploma of the 1st degree	International Student Scientific and Practical Conference "YOUTH DIGITAL FORUM (YDF-2022)"	MUIT, Almaty	+77059547600	zhansaya.myrzakul@mail.ru ,	https://ydf.iitu.edu.kz/
6	Myrzakul Zhansaya	IB	SIB-37	Certificate	Nominal scholarship of the Shakhmardan Yemenov Foundation	Nursultan	+77059547600	zhansaya.myrzakul@mail.ru ,	-
7	Myrzakul Zhansaya	IB	SIB-37	Certificate	KAI, D.K.Suleev Scholarship	ENU, Nursultan	+77059547600	zhansaya.myrzakul@mail.ru ,	-
8	Amirshin B.	IB	SIB-44	April 12, Diploma of the 3rd degree	The XVII International Scientific Conference "GYLYM JANE BILIM- 2022", 2022	ENU, Nursultan	+7 705 744 1632	officemailkz@gmail.com	https://enu.kz/ru/nauka/sborniki-konferentsiy/

9	Usen D.	IB	SIB-42	17.05.2022 1st place	Republican competition Research Work Of Students	NAO "Karaganda Technical University named after Abylkas Saginov"	+7-701- 457-76- 06		https://www.kstu.kz/
10	Tolegenova Aruzhan	IB	SIB-37	certificate	Kazakh Academy of Infocommunicati ons. M.M.Moldabeko v Personal Scholarship	Nursulta n	-	-	-
11	Duissenova Raushangul	IB	SIB-37	certificate	Kazakh Academy of Infocommunicati ons. M.B. Sabit Personal Scholarship	Nursulta n	-	-	-
12	Myrzakul Gulzhan	IB	SIB-37	certificate	Kazakh Academy of Infocommunicati ons. Personal scholarship named after A.A.Yelibayev	Nursulta n	-	-	-
13	Alekseev Ilya	IB	SIB-32	prikaz	Presidential Scholarship	Astana	-	-	-

14	Kuandyk Dias Nurgaliyuly	IB	SIB-35	prikaz	Presidential Scholarship	Astana	-	-	-
15	Saldeshov Askar Mauletovich	IB	SIB-29/1	Diploma stepeni II	International Student Conference “Digital Transformation: new challenges of science and education”, November 25, 2022	Karaganda University of Kazpotrebsoyuz	-	askarsaldesov@gmail.com	https://www.keu.kz/
<i>Total: 15</i>									

3.7 List of students who received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS (*submit supporting documents in electronic form*):

No.	FULL NAME. student	department	group number, course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel .	Email	Link to the organizer's website
1	no information	-	-	-	-	-	-	-	-
<i>Total: -</i>									

3.8 List of students who received prizes (I, II, III) in various competitions, exhibitions, conferences abroad (except for the CIS) (*submit supporting documents in electronic form*):

No.	FULL NAME. student	department	group number, course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel .	Email	Link to the organizer's website
1	no information	-	-	-	-	-	-	-	-
<i>Total: -</i>									

3.9. Information about the work of the student scientific society

No .	Chairman of the SSS faculty (course, specialty)	Curator from -among the teaching staff	The results of the work of the SNO in accordance with the work plan
1.	no information	-	-

3.10 Information about the work of student circles

No	Name of the student circle	Number of participants	Achievements
1	"ALGORITHMICS AND PROGRAMMING" Head: Ph.D. Ospanova A. B.	5 students	They participate in the preparation of the project for the competition of student papers, as well as prepare articles at the conference based on the results of the work
2	"CRYPTOGRAPHS" Leader: Art. teacher Ospanov R. M.	25 students	Three students enrolled in the Master's program of IB. Three work for the company.
3	"ESPORTS" Head: teacher Tashtai B.	15 students	-

4. RESEARCH WORK OF MASTER STUDENTS

4.1 The number of scientific publications of undergraduates in scientific journals *included in the Web of Science database (submit a "screenshot" from the database)*

No. p/n	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	no information	-	-
<i>Total: -</i>			

4.2 The number of scientific publications of undergraduates in scientific journals included in the Scopus database (*submit a "screenshot" from the database*)

No. p/n	FULL NAME. author(s) (indicate in English)	Publication title	Name of the journal, year, number, pages, ISSN	journal impact factor (SJR)
1	no information	-	-	-
Total: -				

4.3 The number of scientific publications of undergraduates in scientific journals that *are not included in the Web of Science* and Scopus databases:

a) in foreign journals (RSCI, etc.)

No. p/n	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
1	Asylkhan A.M., Kayyr A.E. Scientific supervisor - Nurusheva A.M.	USING DLP TECHNOLOGIES IN EVENT MONITORING SYSTEMS	Internauka: electron. scientific. journal. 2022. № 15(238). URL: https://internauka.org/journal/science/internauka/238
2	Asylkhan A.M., Kayyr A.E. Scientific supervisor - Nurusheva A.M.	UNDERSTANDING AND CHOOSING A SOLUTION TO PREVENT DATA LOSS	Internauka: electron. scientific. journal. 2022. № 15(238). URL: https://internauka.org/journal/science/internauka/238
3	Tleugaliev E.U. Scientific supervisor Sagindykov K.M.	Monitoring system to ensure information security in the corporate network	Annalid'Italia №31/2022 – c. 139 - 141 ISSN 3572-2436
4	Aldabergenov A, Scientific supervisor Tashatov N.	Features of mobile development when creating cartographic applications	International independent scientific journal. №41/2022 - c. 50-52. https://doi.org/10.5281/zenodo.6981423 . ISSN 3547-2340
5	A. Ospanova, B. Tuleuov, A. Zharkimbekova, A. Tokkuliyeva, Bekzat Toksan	Processor (Simplified) For Decision Support In The Computer Networks Testing	International Journal of Mechanical Engineering. – Vol. 7, No. 1, 2022. P. 3541-3549
<i>Total: 5</i>			

c) in the journals of the Republic of Kazakhstan, included in the list of KKSON MES RK

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
1	no information	-	-
<i>Total:-</i>			

4.4 The number of scientific publications of undergraduates in the collections of conferences held in the Republic of Kazakhstan:

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1.	Yeshmukhametov Yerlan, Kulikhanov Justice. Scientific supervisor Ospanova A. B.	Network intelligence tools for ensuring information security in a computer network	The XVII International Scientific Conference "GYLYM JANE BILIM- 2022", 2022

2.	Toksan Bekzat , Myrzakul Zhansaya, Shashubay Ulan. Science Teacher Ospanova A.B.	Statistical laws of the Kazakh language and its applications in cryptanalysis	International Student Scientific and Practical Conference "YOUTH DIGITAL FORUM (YDF-2022)", MUIT, Almaty, March 31, 2022
3.	Bisenbayeva Nazerke Kobylandiayeva, Nurzhaubaev Akniet Alibievich	Application of machine learning to detect distributed denial of service attacks	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
4.	Zayniken Ayaulym Scientific supervisor – Konyrkhanova A. A	The structure of DLP systems	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
5.	Mukanov Merey Amangeldievich Scientific supervisor – PhD Tashenova Zh.M	Centralized management system for the protection of end devices in the corporate network	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
6.	Muhamadiyev Madiyar Galellul Scientific supervisor – A. A. Konyrkhanova	Computer based on dynamic analysis virus research methods	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
8.	Marzhan Nurgalieva Scientific supervisor – A. A. Konyrkhanova	Launch of the smart transport software complex research on the security of modern WEB technologies used in the implementation of	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
7.	Iza Askhatuly Toktybayev, Scientific Supervisor-Senior Lecturer, PhD Zh.M. Tashenova	Network security junos OS-based management	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
9.	Toksan Bekzat , Myrzakul Zhansaya, Shashubay Ulan. Science Teacher Ospanova A. B.	Statistical patterns of the Kazakh language and their application in cryptanalysis	International Scientific Conference "XXII Satpayev Readings", Kazakhstan, Pavlodar, Toraiyrov University; April 12, 2022
10.	Kali Aitkhanym, Scientific Supervisor-Konyrkhanova A. A.	Methods for protecting cloud computing from attacks on virtualization tools	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022
11	Karazhanov M.N., Scientific supervisor - Nurushev A.M.	Comparative analysis of standards and regulatory requirements of information security of automated process control systems	Young researcher: challenges and prospects: collection of articles based on the materials of the CCLXIII International Scientific and Practical Conference "Young researcher: Challenges and prospects". – No. 21(263). – M., Publishing House "Internauka", 2022.

12.	Gabitova A., Scientific Supervisor - Sagindykov K. M.	Computer incident Research Methods	Collection of materials of the International Scientific and practical conference" educated generation is the key to sustainable development of the country", Almaty, 17.11.2022, 295-298bp.
13.	Zhaksybek D.M., Scientific supervisor - Akhmetova Zh.Zh.	Anti-disassembly methods	XVI International Scientific Conference "GLOBAL SCIENCE AND INNOVATIONS 2022: CENTRAL ASIA", 2022
14.	Mukanova A.S., Scientific supervisor - Saukhanova Zh.S.	Overview of the formal method of software verification	Collection of materials of the International scientific and practical Conference: "The educated generation is the guarantor of the stable development of the country". - Almaty: Bulletin of the Military Institute of the Land Forces, 2022, 344 p. Volume 2.
15.	Omirbay N.K., Scientific supervisor - Sagindykov K.M.	Automation of the security of the local network of the Eurasian National University using PaloAlto NGFW	International scientific journal" Young Scientist "issue No. 44, 2022.
Total: 15			

4.5 The number of scientific publications of undergraduates in the collections of conferences held abroad

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN	The country
department				
1	A. Ospanova, B. Tuleuov, A. Zharkimbekova, A. Tokkuliyeva, B. Toksan	Linguistic Processor (Simplified) for Decision Support in the Computer Networks Testing	Proceedings of 7th International Conference on Recent Trends in Computer Science and Electronics, January 5-7, 2022, University of Hawaii, Manoa, Hawaii, USA, p. 58.	USA
<i>Total:1</i>				

4.6 List of undergraduates who received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan (*submit supporting documents in electronic form*):

No.	FULL NAME. undergraduate	department	No. of groups course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel	Email	Link to the organizer's website
1	Yeshmukhametov Yerlan	IB	MSIB-11	April 12, Diploma of the 2nd degree	The XVII International Scientific Conference "GYLYM JÁNE BILIM- 2022", 2022	ENU, Nursultan city	+77471155563	yeshmukhametov.yn@gmail.com	Yeshmukhametov Yerlan
2	Toksan Bekzat	IB	MSIB-11	March 31, Diploma of the 3rd degree	International Student Scientific and Practical Conference "YOUTH DIGITAL FORUM (YDF-2022)"	MUIT, Almaty	+77477757047	abaevna160100@gmail.com	https://ydf.iitu.edu.kz/
<i>Total: 2</i>									

4.7 List of undergraduates who received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS (*submit supporting documents in electronic form*):

No.	FULL NAME. undergraduate	department	group number, course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel	Email	Link to the organizer's website
1	Sagadat Nurmuhhammad, Zhaksybek Dias, Zhaksygalı Farabi Scientific supervisor – Satybaldina D.J.	IB	II course I course I course	Diploma of the 3rd degree. 06.03.2022	V case-RISC IB Championship	Moscow, Russia.	-	-	-
<i>Total: 1</i>									

5. RESEARCH WORK OF DOCTORAL STUDENTS

5.1 Web of Science database (submit a “screenshot” from the database)

No. p/n	FULL NAME. author(s) (indicate in English)	Publication title	Name of the journal, year, number, pages, ISSN
1.	Razaque A., Alotaibi B., Alotaibi M., Amsaad F., Manasov A., Hariri S., Yergaliyeva B. , Alotaibi A.	Blockchain-Enabled Deep Recurrent Neural Network Model for Clickbait Detection	IEEE ACCESS. – 2022.- Vol. 10.- Pages: 3144-3163. DOI:10.1109/ACCESS.2021.3137078. Accession Number: WOS:000741988600001 импакт-фактор журнала:3.367 (2020) квартиль: Q2 ISSN:2169-3536
2.	Razaque A., Shaldanbayeva N., Alotaibi B., Alotaibi M., Murat A. (Murat Akhmetov) , Alotaibi A.	Big Data Handling Approach for Unauthorized Cloud Computing Access	ELECTRONICS ((Switzerland).- 2022. – Vol. 11, Issue 1, Article Number: 137 DOI: 10.3390/electronics11010137 Accession Number: WOS:000748003400001 импакт-фактор журнала:2.397 (2020) квартиль: Q3 eISSN:2079-9292
<i>Total: 2</i>			

5.2 The number of scientific publications of doctoral students in scientific journals included in the Scopus database (submit a “screenshot” from the database)

No. p/n	FULL NAME. author(s) (indicate in English)	Publication title	Name of the journal, year, number, pages, ISSN	journal impact factor
1	Boranbayev S., Amrenov A. , Nurusheva A., Boranbayev A., Goranin N.	Methods and Techniques of Information Security Risk Management During Assessment of Information Systems.	In: Arai, K. (eds) Advances in Information and Communication. FICC 2022. pp. 787-797. Lecture Notes in Networks and Systems, vol 439. Springer, Cham. https://doi.org/10.1007/978-3-030-98015-3_53 ISBN 978-3-030-98014-6 (https://link.springer.com/chapter/10.1007/978-3-030-98015-3_53)	0,170

2	Yergaliyeva, B.B. , Seitkulov, Y.N., Satybaldina, D.	Methods for the secure use of external servers to solve computationally-complex problems with secret parameters	Journal of Theoretical and Applied Information Technology, 2022, 100(1), pp. 235–245. квартиль: Q3, процентиль 36 ISSN 19928645 Scopus - сведения о документе - METHODS FOR THE SECURE USE OF EXTERNAL SERVERS TO SOLVE COMPUTATIONALLY-COMPLEX PROBLEMS WITH SECRET PARAMETERS	0.153
3	Banu B. Yergaliyeva , Yerzhan N. Seitkulov, Dina Satybaldina, Ruslan M. Ospanov	On some methods of storing - data in the cloud for a given time	TELKOMNIKA (Telecommunication, Computing, Electronics and Control), Vol 20, No2, 2022, pp. 366-372. DOI: 10.12928/telkomnika.v20i2.21887 квартиль: Q3, процентиль 46 ISSN:1693-6930 E-ISSN:2087-278X Scopus - сведения о документе - On some methods of storing data in the cloud for a given time	0.258
4	Razaque A., Alotaibi B., Alotaibi M., Amsaad F., Manasov A., Hariri S., Yergaliyeva B. , Alotaibi A.	Blockchain-Enabled Deep Recurrent Neural Network Model for Clickbait Detection	IEEE ACCESS. – 2022.- Vol. 10.- Pages: 3144-3163. DOI:10.1109/ACCESS.2021.3137078. квартиль: Q1, процентиль 87 ISSN:2169-3536 Scopus - сведения о документе - Blockchain-Enabled Deep Recurrent Neural Network Model for Clickbait Detection	0.587

5	Razaque A., Shaldanbayeva N., Alotaibi B., Alotaibi M., Murat A. (Murat Akhmetov) , Alotaibi A.	Big Data Handling Approach for Unauthorized Cloud Computing Access	ELECTRONICS ((Switzerland).- 2022. – Vol. 11, Issue 1, Article Number: 137 DOI:10.3390/electronics11010137 квартиль: Q2, процентиль 52 eISSN:2079-9292 Scopus - сведения о документе - Big data handling approach for unauthorized cloud computing access	0.360
6	Ospanov R.M. Seitkulov Ye.N.; Yergaliyeva B.B.	A cryptographic hash function based on a modified sponge scheme	Eurasian Journal of Mathematical and Computer Applications. Volume 10, Issue 2, Pages 55 – 70 ISSN 23066172 DOI10.32523/2306-6172-2022-10-2-55-70	0.315
<i>Total:</i>	6			

5.3 The number of scientific publications of doctoral students in scientific journals that *are not included in the Thomson Reuters and Scopus databases: a) in foreign journals (RSCI, etc.)*

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	no information	-	-
<i>Total: -</i>			

b) in the journals of the Republic of Kazakhstan, included in the list of KKSON MES RK

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	Ergaliev B.B., Seitkulov E.N., Tashatov N.N., Satybalдина D.Zh.	Methods of secure cloud processing of large-dimensional matrix equations	Proceedings of the University, section " Energy, automation, ICT", 2022, №1 (86), - pp. 333-337. DOI 10.52209/1609-1825_2022_1_333 ISSN (print): 1609-1825

2	Seitkulov E.N., Ospanov R.M., Tashatov N.N., Ergalieva B.B., Satybaldina D.Zh.	A set of unconditional optimality criteria for s-blocks	Bulletin of the National Engineering Academy of the Republic of Kazakhstan. 2022. No. 1 (83).-pp.83-90. https://doi.org/10.47533/2020.1606-146X.144 ISSN (print): 2709-4693
3	Abdiraman A. , Nurusheva A., Goranin N., Aldasheva L.	Designing A Model of Information Security Risk of an Information and Communication Infrastructure Object and Its Prevention on the Example of Satellite Communication Systems.	Proceedings of the University, section "Automation, energy, ICT", 2022, №3 (88), - pp. 374-379. DOI 10.52209/1609-1825_2022_1_333 ISSN (print): 1609-1825
4	Abdiraman A. Nurusheva A., Aldasheva A.	Analysis of methods of information security level assessment of information and communication infrastructure objects	Bulletin of the NIA RK, section "Technical Sciences and Technologies", 2022, No. 3. ISSN 2709-4693 (Print), ISSN 2709-4707 (Online)
<i>Total:4</i>			

c) in journals of the Republic of Kazakhstan that are not included in the list of KKSON MES RK

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	no information	-	-
<i>Total: -</i>			

5.4 Number of scientific publications of doctoral students in conference proceedings in the Republic of Kazakhstan

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN
<i>department</i>			
1	Abdraman Aliya Sergalievna Scientific supervisor – Nurushevaa.M.	Information security risk assessment models and techniques	The XVII International Scientific Conference "ǴYLYM JÁNE BILIM- 2022", 2022
<i>Total:1</i>			

5.5 Number of scientific publications of doctoral students in collections of conferences held abroad

No.	FULL NAME. author (s)	Publication title	Name of the journal, year, number, pages, ISSN	The country
department				
1	Oshakbay Dana Maksatovna Scientific supervisor – Akhmetova Zh.Zh.	Defining the Resilience of Critical Systems to Cyber-Attacks	International Journal of Computers http://www.iaras.org/iaras/journals/ijc , ISSN: 2367-8895 Published: May 6, 2022.	Bulgaria
<i>Total:1</i>				

5.6 List of doctoral students who received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan (*submit supporting documents in electronic form*):

No.	FULL NAME. doctoral student	department	group number, course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel	Email	Link to the organizer's website
1	Abdramanalia Sergaliyevna Scientific supervisor – Nurusheva A.m.	IB	DSIB-2	Diploma of the 1st degree, 12.04.2022	The XVII International Scientific Conference "ǴYLYM JÁNE BILIM- 2022", 2022	Nursultan	-	-	-
2	Baisultan Almas Bulatovich – Scientific supervisor – Akhmetova Zh.	IB	DSIB-2	1st place, 2022	Startup pithcing day in ENU, 2022 ғ.	Nursultan	-	-	-
<i>Total:2</i>									

5.7 List of doctoral students who received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS (*submit supporting documents in electronic form*):

No.	FULL NAME. doctoral student	departme nt	group number, course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel .	Email	Link to the organizer's website
1	Akhmetov Murat Scientific director – Satybalдина D.J.	IB	II course	Diploma of the 3rd degree. 06.03.2022	V case-RISC IB Championship	Moscow, Russia.	-	-	-

Total:1

5.8 List of doctoral students who received prizes (I, II, III) in various competitions, exhibitions, conferences abroad (except for the CIS) (*submit supporting documents in electronic form*):

No.	FULL NAME. doctoral student	department	group number, course	Date of receipt of the award, diploma; indicate the prize	Name conferences	Location	Mob.tel .	Email	Link to the organizer's website
1	no information	-	-	-	-	-	-	-	-
<i>Total: -</i>									

6. INTERNATIONAL SCIENTIFIC COOPERATION

In the 2021-2022 academic year, the following joint educational programs are being implemented at the Department of Information Security:

6.1 Availability of concluded international agreements on scientific and technical cooperation with universities and research centers for the reporting year

N o.	Organization (universities, research centers, etc.)	The country	Title of the document	date of signing	Validity	Implementation progress
1	North Caucasus Federal University, 10.04.01 "Mathematical and software information security", Master's degree (OP 7M06306 "Information Security Systems" (ENU), Master's degree)	<i>Russia</i>	Agreement No. 127 M dated 26.08.2020 on the establishment of a SOP with the possibility of obtaining two diplomas between the North Caucasus Federal University and the L. N. Gumilev ENU	26.08.2020	29.09.2024	The number of students enrolled in SOP in 2021-2022 From ENU - 4 undergraduates From NCFU - 4 undergraduates

2	Federal State Educational Institution "National Research Nuclear University "MEPhI", 10.04.01 Information Security OP "Ensuring information security and continuity of functioning of information processing facilities", Master's degree (OP 7M06306 "Information Security Systems" (ENU), Master's degree)	Russia	Supplementary Agreement No. 10.04.01-ENU-1 dated 11.09.2020 to the Agreement on Joint Educational Programs dated 13.08.2019 between the Federal State Educational Institution "National Research Nuclear University "MEPhI" and ENU	11.09.2020	29.09.2024	From ENU- 10 undergraduates
Total:2						

6.2 Invited foreign professors to participate in scientific events (conferences, summer schools)

No.	FULL NAME. visiting professor	Organization/country of visiting professor	Name of scientific event	Periods of stay	Brief information
1	Bereznitsky Andrey Sergeevich	Candidate of Economics, Associate Professor of the North Caucasus Federal University (Stavropol, Russia)	He taught courses: "Forensic examination of digital devices", "Technologies for detecting malicious code" for 7M06306 Information security System	1 semester 2021-2022	He gave lectures, conducted practical and laboratory work. classes of the bachelor's department (total 90 hours), prepares an article together. with the teacher. departments
2	Nikolaev Evgeny Ivanovich	Candidate of Technical Sciences, Associate Professor of the North Caucasus Federal University (Stavropol, Russia)	He taught courses: "Data analysis for cybersecurity purposes", "Computer information protection technologies"	2 semester 2021-2022	He gave lectures, conducted practical and laboratory work. classes of the bachelor's department (total 90 hours), prepares an article together. with the teacher. departments

3	Nikolai Garanin	Prince Gediminas Vilnius Technical University	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
4	Peter Popov	City, University of London/ City University of London	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
5	WillianDimitrov	University of Library Studies and Information Technologies · Computer Science	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
6	Kurbatsky Alexander Nikolaevich	Belarusian State University	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
7	Tebueva Fariza Bilyalovna	North Caucasus Federal University	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students

8	Sukhomlin Vladimir Alexandrovich	Moscow State University.Lomonosov	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
9	Goikhman Vadim Yurievich	Saint Petersburg State University of Telecommunications	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
10	Kopytov Vladimir Vyacheslavovich	North Caucasus Federal University	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
11	Petrenko Vyacheslav Ivanovich	North Caucasus Federal University	Scientific guidance	2021-2022 academic year	Consultations were held with the doctoral student on the topic of the dissertation, together with the scientific supervisors of doctoral students
<i>Total: 11</i>					

The department actively and closely cooperates with foreign partners and constantly expands its external contacts.

7. ANALYSIS OF Staff of the Department of Information Security (the results of the work of the faculties / department, comparison with the previous year)

№	Indicators	Previous 2021	Reporting year 2022
1.	Scientific publications in international scientific publications Web of Science:	3	3

2.	Scientific publications in international scientific journals Scopus:	17	20
3.	<i>Publications in journals not included in the Web of Science and Scopus databases</i> <i>a) in foreign journals (RSCI, etc.)</i> <i>b) in journals of the Republic of Kazakhstan included in the list of KKSON of the Ministry of Education and Science of the Republic of Kazakhstan</i> <i>c) in journals of the Republic of Kazakhstan not included in the list of KKSON of the Ministry of Education and Science of the Republic of Kazakhstan</i>	1 7 4	3 7 -
4.	Scientific publications in the collections of conferences held in the Republic of Kazakhstan:	9	2
5.	Scientific publications in scientific conferences, symposiums, seminars abroad:	12	3
6.	Organization and holding of scientific events at the faculty/department: International conferences	1 1	- -
7.	Participation in the editorial board of journals not included in the Thomson Reuters, Scopus databases	-	3
8.	The list of STUDENTS who received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan	10	15
9.	The list of STUDENTS who received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS	4	-
10.	Number of scientific publications of STUDENTS in scientific journals, total The number of scientific publications of students in the collections of conferences held in the Republic of Kazakhstan The number of scientific publications of students in the collections of conferences abroad	14 5 9	12 12 -
11.	The number of scientific publications of UNDERGRADUATES in scientific journals included in the Web of Science and Scopus databases:	1 1	- -
12.	The number of scientific publications of UNDERGRADUATES in scientific journals not included in the Web of Science and Scopus databases:		

	a) in foreign journals (RSCI, etc.) of UNDERGRADUATES	8	5
13.	<i>in the journals of the Republic of Kazakhstan, not included in the list of KKSON of the Ministry of Education and Science of the Republic of Kazakhstan</i> <i>UNDERGRADUATES</i>	-	-
14.	The number of UNDERGRADUATES of scientific publications of UNDERGRADUATES in the collections of conferences held in the Republic of Kazakhstan:	11	15
15.	The number of scientific publications of UNDERGRADUATES in the collections of conferences held abroad	4	1
16.	List of UNDERGRADUATES who have received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan	8	2
17.	The list of UNDERGRADUATES who have received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS, abroad	3	2
18.	The number of scientific publications of doctoral students in scientific journals included in the Web of Science and Scopus databases:	1 3	2 6
19.	The number of scientific publications of doctoral students in scientific journals not included in the Web of Science and Scopus databases: a) in foreign journals (RSCI, etc.) b) in journals of the Republic of Kazakhstan included in the list of KKSON MES RK c) in journals of the Republic of Kazakhstan not included in the list of KKSON MES RK	1 2 1	- 4 -
20.	The number of scientific publications of doctoral students in the collections of conferences in the Republic of Kazakhstan.	4	1
21.	The number of scientific publications of doctoral students in the collections of conferences held abroad. DOCTORAL STUDENTS	3	1

22.	List of DOCTORAL students who have received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan	-	2
23.	List of DOCTORAL students who have received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS, abroad	-	1

8. PROSPECTS FOR THE DEVELOPMENT OF SCIENTIFIC ACTIVITY (problems, ways of developing research and development and proposals for further improvement of scientific activity).

In general, in many respects, the indicators for the 2022 calendar year are better compared to the indicators for 2021.

The department plans next year to improve the indicators for the participation of teaching staff and students of the department in competitions for grant financing of projects; to continue work on the participation of students, undergraduates and doctoral students in scientific conferences, Olympiads and competitions; to work to improve the quality of publications of students, to publish the results of research in publications indexed by Scopus and WoS; to continue work on participation of teaching staff in events held by the faculty and the university.

Responsible for research work of the Information Security Department  _____ Osanova A.B.

Agreed
Head of the Department "Information Security"  _____ **Satybaldina D.Zh.**