

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 "GYLYM JÁNE BILIM-2022", 2022	Nursultan	-	-	-
2	Baisultan Almas Bulatovich – Scientific supervisor – Akhmetova Zh.	IB	DSIB-2	1st place, 2022	Startup pitching day in ENU, 2022 г.	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	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	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)	<i>Russia</i>	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>	1	3
	<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>	7	7
	<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>	4	-
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:	1	-
	International conferences	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	14	12
	The number of scientific publications of students in the collections of conferences held in the Republic of Kazakhstan	5	12
	The number of scientific publications of students in the collections of conferences abroad	9	-
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  _____ Ospanova A.B.

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