

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.	Ospanov , RM, Seitkulov , YN, Sissenov , NM, Yergalieva , BB	An example of an internal function for the SPONGE scheme	VESTNIK SANKT-PETERBURGSKOGO UNIVERSITETA SERIYA 10 PRIKLADNAYA MATEMATIKA INFORMATIKA PROTSESSY UPRAVLENIYA Volume17 Issue 3 Page 287-293 DOI10.21638/11701/spbu10.2021.306 Published 2021 Article document type
Total: 1			
Total by faculty:			

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	Seitkulov , YN , Boranbayev , SN , Ulyukova , GB , Yergaliyeva , BB , Satybaldina, D.	Methods for secure cloud processing of big data	Indonesian Journal of Electrical Engineering and Computer Science , 2021, 22(3), p . 1650–1658	0.241
2	Ospanov , RM, Seitkulov , YN, Sissenov , NM, Yergalieva , BB	Sponge Inner Function Example	Bulletin of St. Petersburg University. Applied Mathematics. Informatics. Management processes. 2021, Vol. 17. Issue . 3. - S. 287-293.	0.233
3	Yerzhan N. Seitkulov , Seilkhan N. Boranbayev , Gulden B. Ulyukova , Banu B. Yergaliyeva , Dina Satybaldina	Methods for secure cloud processing of big data	https://www.scopus.com/sourceid/21100799500?origin=resultslist Indonesian Journal of Electrical Engineering and Computer Science Vol. 22, no. 3, June 2021, pp. 1650~1658 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v22.i3.pp1650-1658	0.241
Total:				3
Total by faculty:				

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	Ergalieva B.B., Ospanov R.M., Seitkulov E.N., Sisenov N.M.	An example internal function for a Sponge schema built using the AES Generic Design Methodology	Reports of BSUIR, 2021, Volume 19, No. 3, -S. 89-95.
<i>Total: 1</i>			
<i>Total by faculty:</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	E.N. Seitkulov, R.M. Ospanov, B.B. Yergaliyeva	On cryptographic properties of s-boxes	<i>Bulletin of Satbayev University</i> , 143 (4), 2021 -C.96–103.
2	E.N. Seitkulov, R.M. Ospanov, B.B. Yergaliyeva	An example of a cryptographic hash function based on a modified Sponge scheme	Bulletin of KazNITU , No. 143 (1), 2021, - S. 247-259.
<i>Total:2</i>			
<i>Total by faculty:</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	A. Ospanova , A. Zharkimbekova , L. Kusepova , A. Tokkulieva , M. Manmurnyn	Computerlik jellylerds korgauga zha monitoringileuge arnalgan bulk service	KazUTZU Khabarshysy , No. 3, 2021, pp. 222-229. DOI: https://doi.org/10.51301/vest.su.2021.i3.29
<i>Total: 1</i>			

<i>Total by faculty:</i>	
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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	Abdiraman A.S. Scientific adviser: Nurusheva A.M.	Analysis of methods for assessing the level of information security of information systems	International journal of information & communication technologies, special issue, March, 2021/ ISSN 2708-2032 (print), ISSN 2708-2040 (online)
2	Ergalieva B. B., Sisenov N., Ospanov R. M., Zhetpisbaeva A. T.	Implementation of the Choice Function in the Modified Sponge Scheme for Designing Cryptographic Hash Functions	Collection of materials of the XVI International Scientific Conference of Students and Young Scientists "GYLYM JÁNE BILIM - 2021", Nur-Sultan, 2021, - P. 611-614.
3	N. Sisenov , R. Ospanov , B. Yergaliyeva , A. Zhetpisbayeva	Implementation of the selection function in the modified Sponge cryptographic hash functions design scheme	Materials of the international scientific conference of students and young scientists "FARABI ALEMI", Almaty, Kazakhstan, April 6-8, 2021, - P. 82. Nurbek Sisenov , Ruslan Ospanov , Banu Yergaliyeva , Ainur Zhetpisbayeva
4	B. Yergaliyeva , K. Niyazaliyev , R. Ospanov , G. Ulyukova	On criteria and methods for generating optimal S-boxes	materials international scientific conference of students and young scientists "Farabi Alemi ". Almaty, Kazakhstan, April 6-8, 2021, - P. 84.

Total:4

<i>Total by faculty:</i>	
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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
<i>department</i>				

1	A. Ospanova , B. Tuleuov , A. Zharkimbekova , L. Kussepova , M. Mangmurn	Mobile Devices and Portable Classroom Based on Raspberry Pi Computers	Proc. 12th National Conference with International Participation "Electronica 2021", May 27 - 28, 2021, Sofia, Bulgaria, p. 62-65. DOI: 10.1109/ELECTRONICA52725.2021.9513685 ISBN:978-1-6654-4061-5 www.scopus.com/record/display.uri?eid=2-s2.0-85114128179&origin=resultslist	Bulgaria
2	A. Ospanova , B. Tuleuov , G. Karzhauova , L. Kussepova	Advanced Administration of Windows Based on Open Source Utilities	Proceedings of the World Congress on Engineering 2021, WCE 2021, July 7-9, 2021, London, UK, p. 118-121. ISBN: 978-988-14049-2-3	UK
3	Ademi B. Ospanova , Berik I. Tuleuov , Aizhan K. Tokkuliyeveva , Lazzat T. Kussepova , 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
Total:3				
Total by faculty:				

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									
Total:									

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									
<i>Total:</i>									

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									
<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						
<i>Total:</i>						

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

N o.	FULL NAME. visiting professor	Organization/country of visiting professor	Name of scientific event	Periods of stay	Brief information
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1	Yakovlev Viktor Alekseevich	Doctor of Technical Sciences, Professor of the Department of Secure Communication Systems, Saint-Petersburg State University of Telecommunications. Professor M. A. Bonch-Bruevich (St. Petersburg, Russia)	Courses taught - Theory of signal transmission - Security of computer networks-1 lectured for doctoral students	04.11.2021 - 04.12.2021	https://fit.enu.kz/subpage/mezhdunarodnoe-sotrudnichestvo-kafedry-iib
2	Abdul Razak	PhD Doctor of New York University (USA)	Courses taught - Security of computer networks and network protocols -Network cyber security lectured for doctoral students	11/08/2021 - 12/08/2021	https://fit.enu.kz/subpage/mezhdunarodnoe-sotrudnichestvo-kafedry-iib
3	Adzhemov Artem Sergeevich	Doctor of Technical Sciences, Professor of the Moscow Technical University of Communications and Informatics (Moscow, Russia)	Courses taught - Theory of information and coding participated in conferences	09/02/2021 - 12/14/2021	https://fit.enu.kz/subpage/mezhdunarodnoe-sotrudnichestvo-kafedry-iib
<i>Total: 3</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)

No.	Indicators	Previous 2020	Reporting 2021
1.	Scientific publications in international scientific journals ThomsonReuters :	5	3

2.	Scientific publications in international scientific journals Scopus:	17	17
3.	<i>Publications in journals not included in the ThomsonReuters and Scopus databases</i> <i>a) in foreign journals (RSCI, etc.)</i> <i>b) in the journals of the Republic of Kazakhstan, included in the list of KKSON MES RK</i> <i>c) in journals of the Republic of Kazakhstan that are not included in the list of KKSON MES RK</i>	3 17 4	1 7 4
4.	Scientific publications in the collections of conferences held in the Republic of Kazakhstan:	13	9
5.	Scientific publications in scientific conferences, symposiums, seminars abroad:	6	12
6.	Organization and holding of scientific events at the faculty/department: International conferences	-	1 1
7.	List of STUDENTS who received prizes (I, II, III) in various competitions, exhibitions, conferences in the Republic of Kazakhstan	-	10
8.	List of STUDENTS who received prizes (I, II, III) in various competitions, exhibitions, conferences in the CIS	1	4
9.	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	2 1 1	14 5 9
10.	The number of scientific publications of MASTER STUDENTS in scientific journals <i>included in the ThomsonReuters and Scopus databases</i> :	-	1 1
11.	The number of scientific publications of MASTER STUDENTS in scientific journals <i>not included in the ThomsonReuters and Scopus databases</i> : <i>a) in foreign journals (RSCI, etc.)</i> MASTER STUDENTS	12	8
12.	<i>in journals of the Republic of Kazakhstan that are not included in the list of KKSON MES RK</i> MASTER STUDENTS	2	-
13.	The number of MASTER STUDENTS scientific publications MASTER STUDENTS in the collections of conferences held in the Republic of Kazakhstan:	33	11

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

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

Overall, calendar year 2021 performance is better in many ways compared to 2020 performance.

The department plans next year to improve the performance of the participation of teaching staff and students of the department in competitions for grant funding of projects; continue work on the participation of students, undergraduates and doctoral students in scientific conferences, olympiads and competitions; carry out work to improve the quality of students' publications, to publish the results of SRW in publications indexed by Scopus and WoS ; to continue work on the 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.