



Informational resources and NLP tools for Kazakh language

Informational resources:

1. Thesaurus of the Kazakh language.
2. Text corpus for the Kazakh language.
3. Audio package for Kazakh language.
4. Dictionaries in the Kazakh language:

<i>№</i>	<i>Name</i>	<i>Head of</i>
1.	Kazakh-Russian dictionary	R. Syzdykova, Doctor of Philosophy, Professor and others.
2.	Explanatory dictionary of the Kazakh language	R. Syzdykova, Doctor of Philosophy, Professor and others.
3.	Orthographic dictionary of the Kazakh language	R. Syzdykova, Doctor of Philosophy, Professor and others.
4.	Orthoepic Dictionary	R. Syzdykova, Doctor of Philosophy, Professor and others.
5.	Synonym dictionary	O. Aytbaiuly, Doctor of Philosophy, Professor and others.
6.	Phraseological dictionary	O. Aytbaiuly, Doctor of Philosophy, Professor and others.
7.	Dictionary of Sustainable Comparisons	O. Aytbaiuly, Doctor of Philosophy, Professor and others.
8.	Russian-Kazakh-English Polytechnic Dictionary Volume 1, Volume 2.	M.R. Tusipbek., Doctor of Technical Sciences, Professor and others.

Terminological dictionarys (Kazakh–Russian, Russian–Kazakh)

<i>№</i>	<i>Name</i>	<i>Head of</i>
1.	Physics and Astronomy	M.S.Moldabekova - head, doctor of pedagogical sciences, professor;
2.	Mathematics	N. Akanbai - head, phiz.-matem.science., professor;
3.	Computer science and computer facilities	A.A. Sharipbay - the head, doctor of technical sciences, professor;
4.	Information and Communication Technologies	A.A. Sharipbay - the head, doctor of technical sciences, professor;
5.	Mechanics and Engineering Science	A.Ahmetov - the head, phiz.-matem.science;
6.	Energetics	B.K.Aliyarov - the head, doctor of technical sciences, professor;
7.	Electronics, radio engineering and communications	E.O.leukulov - the head;
8.	Mechanical engineering	M.R.Tusipbek - head, doctor of technical sciences, professor;
9.	Transport and communication routes	S.A.Zhienkulov - head, doctor of technical sciences, professor;
10.	Architecture and Construction	A.Sh. Tatygulov - head, Ph.D., professor
11.	Statistics, standardization and intellectual property	B.B. Mannanov - Head, Doctor of Technical Sciences, Professor
12.	Warfare	S.B.Tokpakbaev - Head, lieutenant general;
13.	Chemistry	N.Nurakhmetov - the head, the doctor of chemistry, the professor
14.	Biology	K.S. Musabekov - head, k.b.s.
15.	Medicine	M.A.Ahmetov - Head, k.m.s.
16.	Agriculture	A.K.Apushev -doctor Agricultural Sciences., Prof.
17.	Water management	J.D.Dostay - the head, doctor geological sciences, prof .
18.	Ecology	A.T. Kuatbaev - head, Ph.D., associate professor
19.	Mining and Metallurgy	M.Zh.Bitimbaev - the head, doctor of technical sciences. Prof.
20.	Geology, geodesy and geography	Seitov N., Kalabai K.B., Abdrakhmanov S.A.
21.	Light and textile industry	S.Z. Asanova - Head, Doctor of History, Professor
22.	Philosophy and Political Science	SE Nurmuratov - the head, k.filos.sciences
23.	History	H.M. Abzhanov - head, doctor of history sciences, professor
24.	Culture and art	B.K. Nurpeis - the head, doctor art. sciences
25.	Literature and linguistics	A. Zhunisbekov - Head, Doctor of Philology prof.



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26.	Economics and finance	S.S. Tamenova - head, doctor of economics, prof.
27.	Office work and archives	M.B.Kasymbekov - the head, the doctor of pedagogical sciences, prof.
28.	Jurisprudence	A.E.Bekturganov - head, doctor of Jurisprudence sciences, prof. ;
29.	Physical Education and Sports	D.K. Nurmukhanbetova - head, k.of pedagogical sciences, Assoc.professor,

Tools and software:

1. Programming language Prolog, Refal
2. Wolfram Mathematica Standard Desktop / Cloud
3. Speech recognition Voco.Professional
4. JetBrains All Products Pack
5. Morphological analyzer, syntactic analyzer, semantic analyzer of the Kazakh language
6. Speech recognition and synthesis
7. Dialog systems in the Kazakh language in various subject areas
8. Intellectual systems of training and knowledge assessment in various disciplines