



RECOGNITION OF KAZAKHSTAN NIS- PROGRAMME ENSURES COMPETITIVENESS FOR GRADUATES

Content

- I. About NIS
- II. Recognition of NIS 12 Grade Certificate and NIS Qualification at the national level
- III. Recognition of NIS 12 Grade Certificate and NIS Qualification at the international level
- IV. Research and feedback based on recognition
- V. Further collaborations

MISSION OF NAZARBAYEV INTELLECTUAL SCHOOLS AEO

Increase Kazakhstan's intellectual capacity by integrating the best national and international practices and significant scientific achievements in the field of school education.

VISION

Nazarbayev Intellectual Schools is an innovative organisation rendering quality services in the field of preschool and school education in the country and abroad.

- **NIS Programme** develops functional literacy through academic knowledge and meets national and international standards.
- **NIS Assessment System** is a transparent and reliable system compatible to international standards. The best national and international universities recognise the NIS certificate. All NIS schools have international accreditation.
- **NIS Teachers** are multilingual professionals who master the art of teaching and learning and Action Research.
- **NIS Educational Environment**, favourable and friendly, implements innovative technology and a variety of educational resources.
- **NIS Graduates** possess deep academic knowledge and universal skills, speak several languages, enter the national and international universities, are active patriots, and contribute to the socioeconomic development of Kazakhstan.

Nazarbayev Intellectual Schools

Education

19

NIS-Programme

18

schools provide education for Grades 7-12

1

International Baccalaureate

2

schools provide education for Grades 3-12

1

International school – fee-based education



22nd NIS school
will be opened in November 2021



15 127
students



2797
teachers



124
international teachers

Strategic partners



Principles:

- Acclaimed organisations in the field of education and science
- Retaining the intellectual property rights over all developed materials
- Local experts capacity building

Curriculum “NIS – Programme”



Core Principles:

- Values are aligned with learning objectives
- Learning outcomes in the form of a wide range of skills
- Holistic interaction with the surrounding world
- Improving students’ level of involvement in their learning, and inculcating a sense of personal responsibility for their future
- Criteria-based assessment system for & of learning
- Trilingual education
- Second foreign language: Chinese, Korean, German, French

Developed by NIS and Cambridge University

NIS-Programme on the international level

Common features of NIS-Programme and A-level

In both programmes

- Key topics, concepts and learning objectives are comparable
- Learning outcomes are topic-specific and measurable

Specific features of NIS-Programme

- **Strong cross-disciplinary focus**
- **A larger breadth of content**
- **More depth of Molecular Biology**
- Strengthening students' ability "**to construct arguments to support hypotheses or to justify a course of action**" in Chemistry and Physics
- Specific reference to understanding mathematics in the **context of the real world**
- Education in **Kazakh, Russian and English**
- Language objectives reflect a content and language integrated learning (**CLIL**) approach

NIS Subject Programmes are also comparable with IB, O-level (Singapore), and with content of SAT

High School Model

	Compulsory	Electives
	All students study:	All students study <u>two</u> of the following at Advanced level electives:
	• Mathematics [476/680]	• Biology [408]
	• Kazakh / Russian and Literature (L1) [136]	• Chemistry [408]
	• Kazakh / Russian and Literature (L2) [68]	• Physics [408]
	• English [272]	• Computer Science [408]
	• History of Kazakhstan (Kazakhstan in the Modern World) [136]	Most students study <u>one</u> of the following as a Standard level elective:
	• Global Perspectives and Project Work [170]	Chemistry/Biology/Physics/ICT/Geography / Economics/ Graphics and Design [153]
	• Physical Education [204]	*Elective courses [374]
	• Initial Military Preparation [68]	Club activities [136]

Citizenship-developing subject taught in **Kazakh**
Integration of History, Geography and Economics
Emphasis **on research skills**

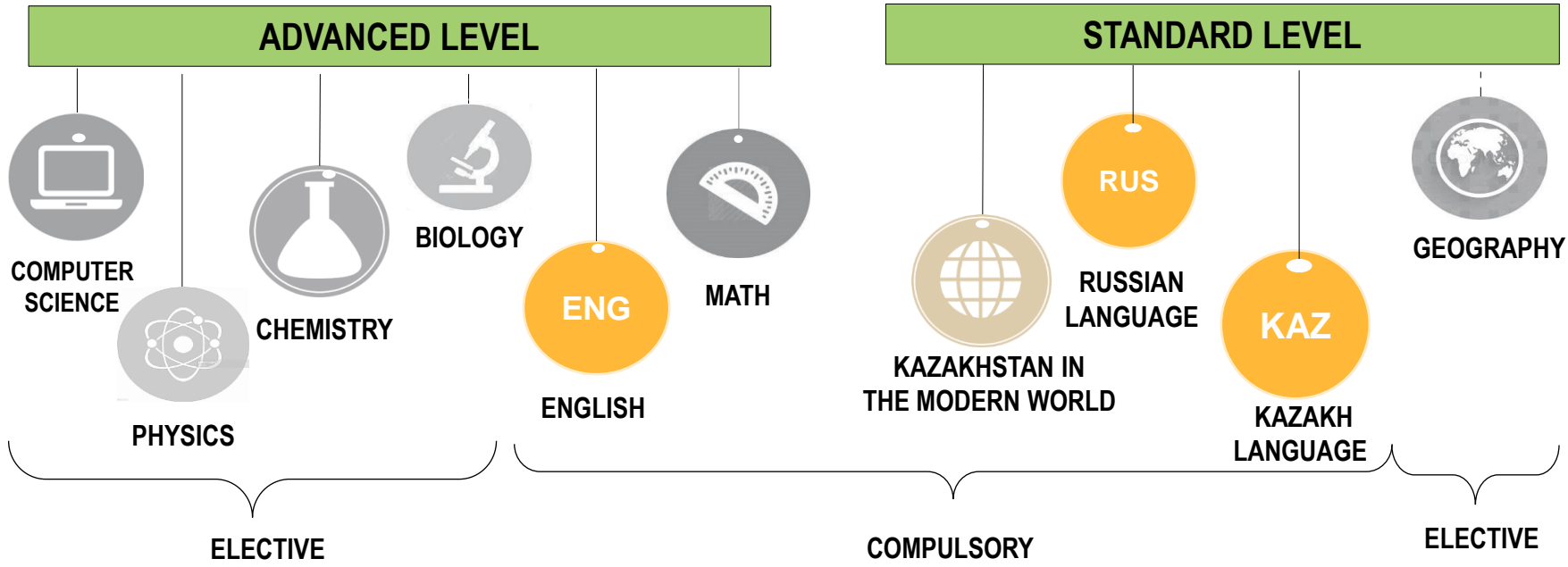
Strengthening **global citizenship, critical thinking and research skills**

Natural sciences, Economics, GPPW are studied in English

*Elective courses:

NANOTECHNOLOGY, BIOTECHNOLOGY, ROBOTICS, WEB DEVELOPMENT (HTML, CSS, JavaScript), COMPUTER GRAPHICS in Adobe Photoshop, 3D MODELLING AND ANIMATION, LEARNING LITERACY, CREATIVE WRITING, PUBLIC SPEAKING, CRITICAL READING

Final Assessment: External Summative Assessment



THE TASKS OF EXTERNAL SUMMATIVE ASSESSMENT

The following elements may be found either individually or in combination:

- Multiple choice questions
- Short answer questions
- Source-based questions
- Extended writing
- Experiment and practical work;



SKILLS ASSESSED

- handling information
- applying information
- evaluating information
- practical skills
- experimental skills
- solving problems
- global awareness
- digital literacy

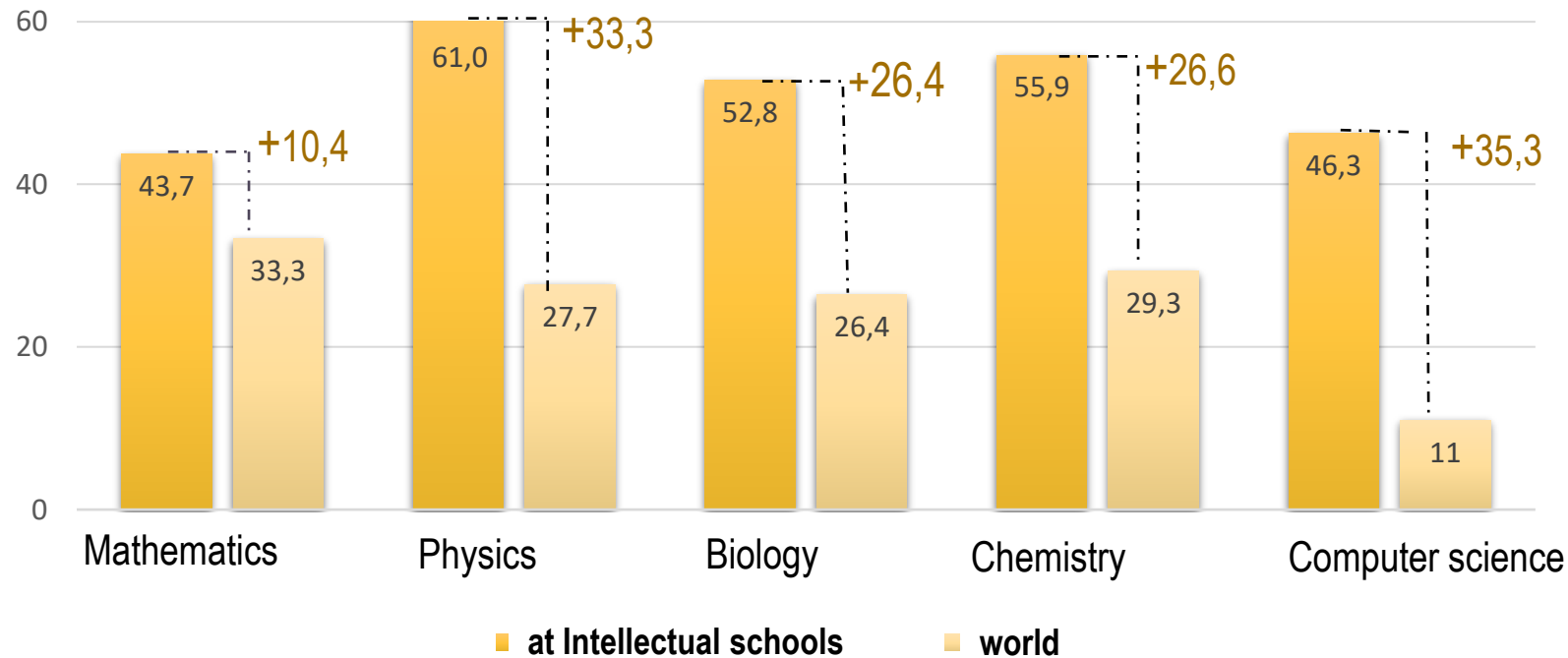


NIS Grade 12 Certificate

External Summative Assessment results in 2021

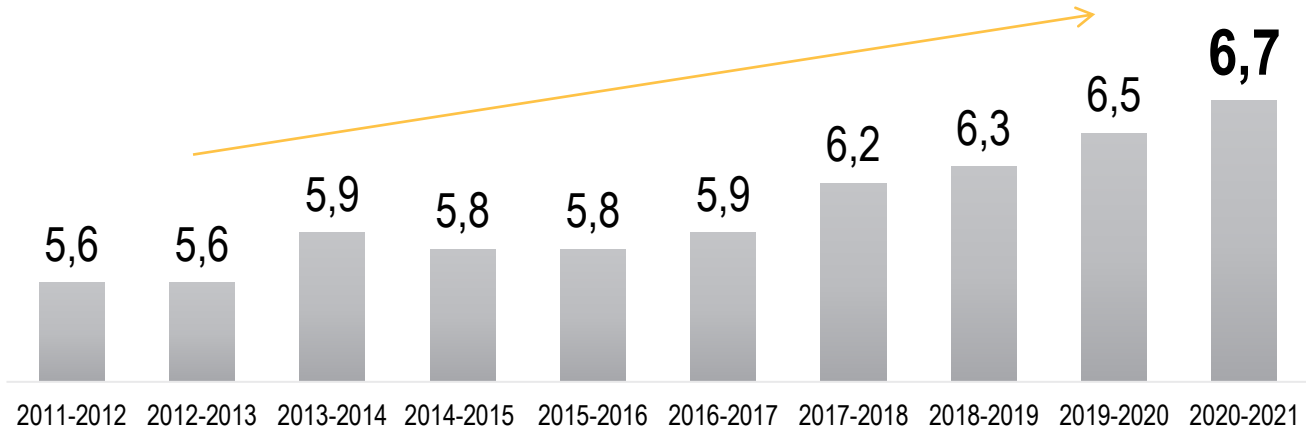
More than 570 thousand students from 130 countries around the world (UK, Ireland, USA, Canada, Australia, New Zealand, India, Singapore, Netherlands and others) take A-level exam.

Percentage of 12 Grade students received the highest grades A* and A based on the results of External Summative Assessment at Nazarbayev Intellectual Schools and world, %



The data is presented in comparison with the results of the autumn session of the AS / A-Level exams in 2021 in the world.

NIS students IELTS results in 2021



Nazarbayev Intellectual Schools with the highest score in IELTS (2020-2021)		
Nur-Sultan IB		7,2
PhM Almaty		7,2
Taraz		6,9
Pavlodar		6,9
PhM Nur-Sultan		6,8
ChB Almaty		6,8
Karaganda		6,8

every second student has **7.0** or higher scores

6.5 and higher score received 71% of graduates



NIS students SAT results in 2021

		2019-2020	2020-2021
SAT Reasoning		1256	1281
SAT subject test	Math 1	712	712
	Math 2	705	717
	Physics	677	686
	Chemistry	697	701
	Biology	673	678



SAT centers:

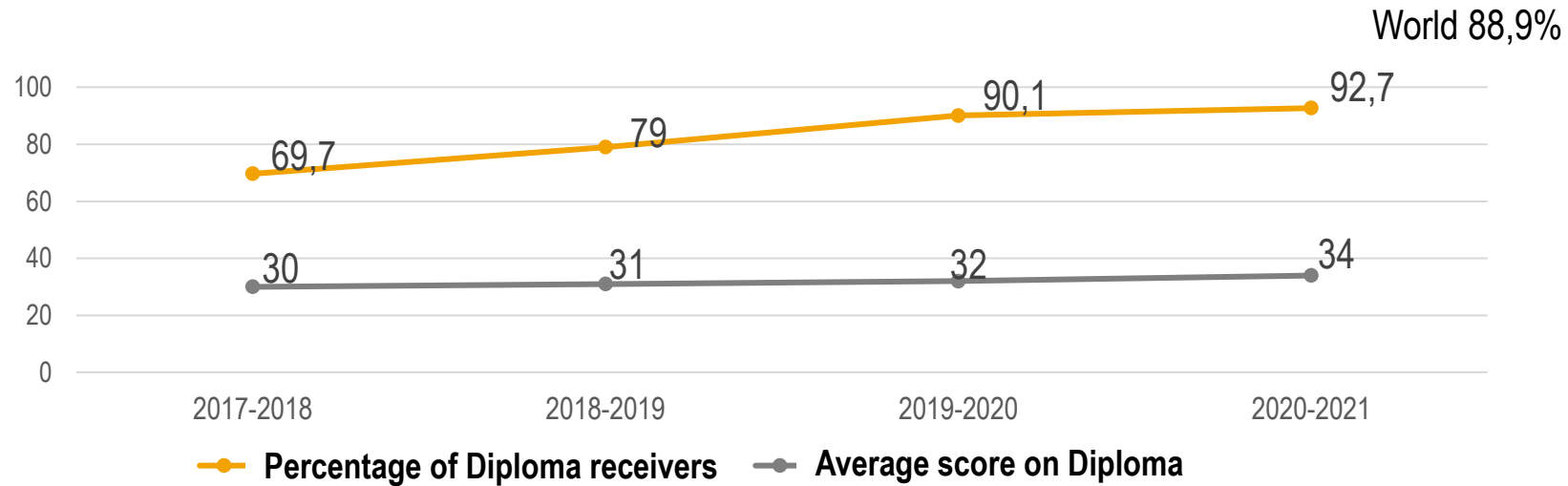
- NIS ChB Shymkent
- NIS Kokshetau
- NIS Aktau
- NIS Karaganda

In 2021 the average score of NIS students on **SAT Reasoning 1281**, the same results have only 11 % students around the world.



Students used SAT results to apply for Nazarbayev University and universities around the world.

NIS students IB final exam results in 2021

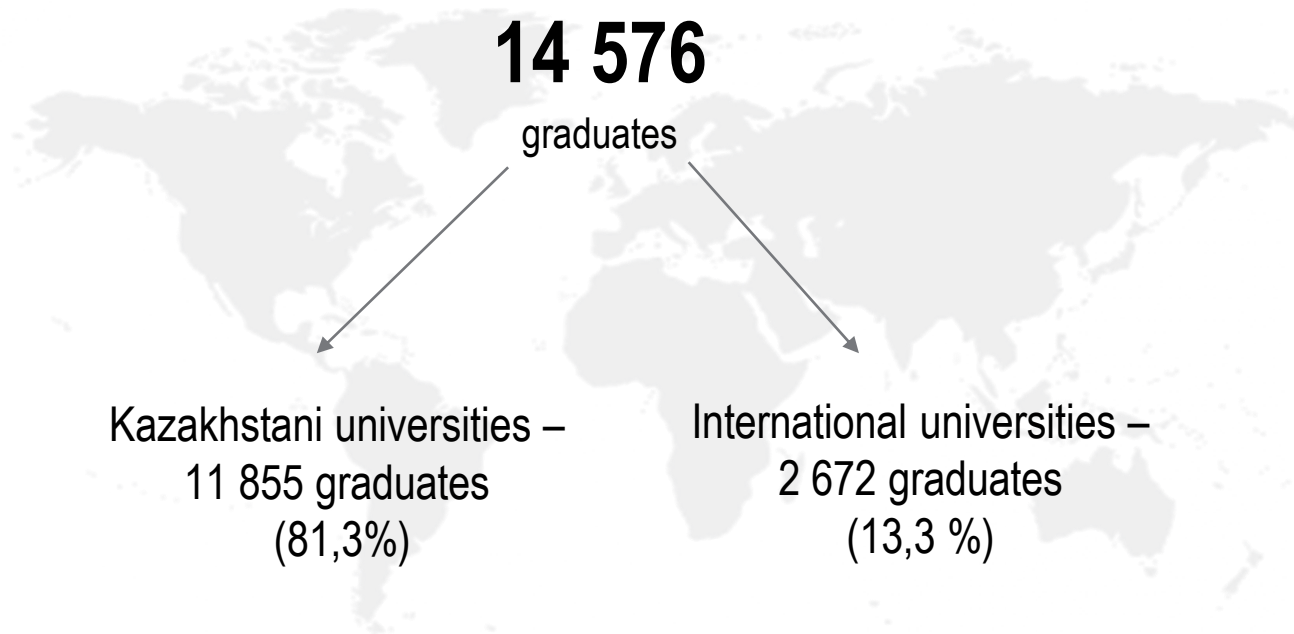


20 students received high results 40- 44 (out of 45)

- Despite distance learning the dynamics of growth in the quality of knowledge of graduates according to the results of external final exams remains



Admission of NIS graduates (2010-2021)



99,6% continue higher education

91,2% awarded with university scholarships

80% study in technical, medical, pedagogical, agricultural fields

18 graduates at Ivy league universities



432 graduates at QS
Top-100 universities



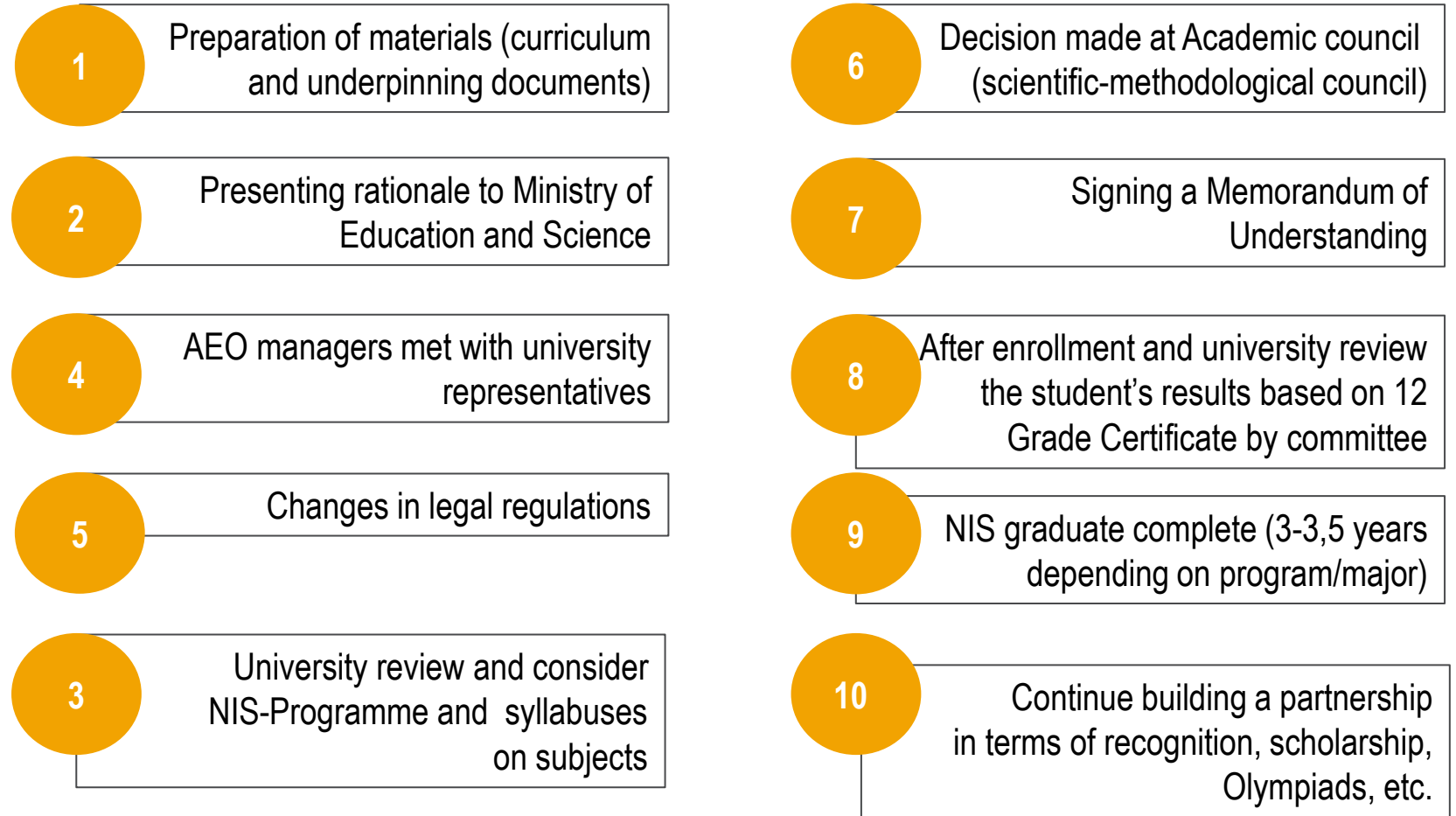
History of recognition

In June 2017, by the instruction of the first President of the Republic of Kazakhstan - Elbasy N.A. Nazarbayev – there started work on recognition by local universities of the learning outcomes of Intellectual Schools graduates in **general education disciplines** and completion of Bachelor's programs with **accelerated mode**.



Edition in 2017 (Law of the Republic of Kazakhstan “About education”)	Current regulations (State compulsory standard of higher education)
<p>Article 35.</p> <p>The term for mastering professional curricula of higher education is determined by the state compulsory standard of higher education and must be at least 4 years.</p>	<p>Article 1 and 2 .</p> <p>To obtain a bachelor's degree, the student must master the educational programme of the appropriate level of education and collect the required number of academic credits (bachelor's degree - 240-300). (Educational programme of higher education – general education disciplines (GED), basic disciplines and major disciplines. The GED cycle includes the disciplines of a compulsory component, a university component and (or) an optional component.</p>

Process in gaining the recognition at the national level



Recognition at the national level

Nazarbayev University admits graduates of Intellectual schools to **Undergraduate programs** bypassing *Foundation* based on the results in NIS Grade 12 Certificate, starting from 2015.

Accept to accelerated undergraduate programs
(3 instead of 4 years)

Transfer NIS Grade 12 Certificate results into university academic credits on a number of subjects depending on the major

1. Satbayev University;
2. Al-Farabi Kazakh National University;
3. Kazakh-British National University;
4. International IT University;
5. KIMEP University;
6. K. Zhubanov Aktobe Regional State University;
7. Almaty University of Energy and Communication;
8. Almaty Management University;
9. Toraigyrov Pavlodar State University;
10. NARXOZ University on the program "Business administration";
11. Taraz State Pedagogical University;
12. Suleyman Demirel University;
13. S. Amanzholov East Kazakhstan State University;
14. Auezov South Kazakhstan State University;
15. University of International Business;
16. «Turan» University;
17. Atyrau Oil and Gas University named after S. Utebayev;
18. Academy of civil aviation;
19. Astana IT University.

1. Astana medical University;
2. Karaganda State Medical University;
3. Buketov Karaganda State University;
4. S.Asfendiyarov Kazakh National Medical University;
5. D. Serikbayev East Kazakhstan technical university;
6. West Kazakhstan M. Ospanov State Medical University;
7. Almaty Technological University.



Admission of NIS graduates to recognized universities

#	Universities	2017-2018	2018-2019	2019-2020	2020-2021
1	Satbayev University	41	28	46	18
2	Al-Farabi Kazakh National University	191	112	77	77
3	Kazakh-British National University	360	205	199	246
4	International IT University	73	63	37	14
5	KIMEP University	38	19	10	5
6	K. Zhubanov Aktobe Regional State University	2	1	2	
7	Almaty University of Energy and Communication	21	4	19	3
8	Almaty Management University	32	23	40	31
9	Toraigyrov Pavlodar State University	10	1	4	2
10	NARXOZ University on the program "Business administration"	28	7	17	7
11	Taraz State Pedagogical University		1		
12	Suleyman Demirel University	67	42	80	85
13	S. Amanzholov East Kazakhstan State University				2
14	Auezov South Kazakhstan State University	6	2	1	1
15	University of International Business	14	23	40	11
16	«Turan» University	2	3	2	2
17	Atyrau Oil and Gas University named after S. Utebayev		1		1
18	Academy of civil aviation	6	3	3	3
19	Astana IT University		178	196	228
	Overall	891	716	773	736
1	Astana medical University	58	69	51	81
2	Karaganda State Medical University	23	8	13	3
3	Buketov Karaganda State University	14	1	1	
4	S.Asfendiyarov Kazakh National Medical University	54	73	80	99
5	D. Serikbayev East Kazakhstan technical university	1	1		
6	West Kazakhstan M. Ospanov State Medical University	8	3	4	3
7	Almaty Technological University	4		1	2
	Overall	162	155	150	188

Independent evaluation and benchmarking study

Process in gaining the recognition at the international level

EXECUTIVE SUMMARY



The Nazarbayev Intellectual Schools' (NIS) Grade 12 Certificate



Comparability: Is considered comparable to the overall GCE A Level standard

Methodology

- UK ENIC (NARIC) conducted independent evaluation and benchmarking study comprised a detailed review of the NIS Programme
- Site visit in November 2017

Key findings

- The NIS-programme and the GCE A level have 3 shared central aims/principles
- Across all subjects clear comparability could be observed in the assessment objectives (NIS and the GCE AS and A Levels)
- Across all subjects the standard of assessment is pitched at GCE AS or A Level standard (depending on the subject) although for some subjects, the volume of study and assessment may be less.
- **NIS Grade 12 Certificate can be considered comparable to the overall GCE A Level standard, with Mathematics and the student's two Advanced level electives comparable to GCE A Level on a subject-for-subject basis**

International organisations



United Kingdom National Recognition Information Centre **UK NARIC** verified NIS-Programme and NIS Grade 12 Certificate as comparable to **GCE A-Level**.



NIS-Programme and NIS Grade 12 Certificate were included into **UCAS** (Universities and Colleges Admissions Service) – the centralised application system for applying to the UK higher education institutions.



Council of Ministers of Education and Culture of the Federal German States recognized NIS Grade 12 Certificate for admission of graduates of Intellectual schools to German Universities bypassing a foundation year. Information regarding NIS-Programme is included into the centralized system **ANABIN**.



Dutch organization for internationalization in the field of education **Nuffic** recognized NIS-Programme and NIS Grade 12 Certificate as comparable to VWO diploma (NLQF 4+/EQF 4). The VWO diploma allows applying for Undergraduate programs at research universities in the Netherlands.



Swiss Education Group, the largest private provider of hospitality management education in Switzerland has recognised NIS grade 12 Certificate as a criterion for entering Culinary Arts Academy Switzerland, César Ritz Colleges Switzerland, Hotel Institute Montreux, IHTTI School of Hotel Management and Swiss Hotel Management School without entrance exams and bypassing Foundation based on the results of NIS Certificate.



Common App (under the process of consideration).

Universities around the world

Direct admission to **Undergraduate programs** bypassing *Foundation*

UK - 12



University of Cambridge, Bournemouth University, Glasgow Caledonian University, Queen Mary University of London, Loughborough University, University of Edinburgh, University College Dublin, Royal Holloway University, University of Manchester, University of Westminster, University of Exeter, University of Warwick

the Netherlands - 5



University of Amsterdam, University College Utrecht, Maastricht University, Rotterdam School of Management, Erasmus University (RSM), Erasmus University College (Rotterdam)

China - 4



City University of Hong Kong, The Hong Kong Polytechnic University, Lingnan University, The Education University of Hong Kong

Korea - 2



Pusan National University, Yonsei University

Universities of Australia, Singapore, Japan



Monash University (Australia), Tokyo International University (Japan), Nanyang Technological University (Singapore)

NIS as Non-local or international Qualification

Qualification	Requirements	Required*
Japan Upper Secondary School Leaving Certificate	At least 75 in Upper Secondary School graduation examination and meet English Language requirements stated below.	Required*
Kazakhstan NIS Grade 12 Certificate	Score of A in all subjects taken at NIS Grade 12 Certificate exam.	Not Required

Study Global Visit Research News About Alumni Local Staff Students



Kazakhstan

Applicants who have completed and undertaken the Grade 12 Nazarbayev Intellectual Schools Certificate may be considered for direct entry to Undergraduate study with the following grades: ABB – noting this applies to just the twenty selected Nazarbayev Intellectual Schools only.



Home Apply Now About PolyU Rank **National / Regional Qualifications (Country-specific)**

Kazakhstan

Attestat o Srednem Obrazovanii (Certificate of Secondary Education); and Unified National Testing (UNT); or

NIS Grade 12 Certificate with passes in 3 Higher Level subjects; and Attestat o Srednem Obrazovanii (Certificate of Secondary Education)

International - Guidelines on Non-local Qualifications



University College Utrecht

Italy	Diploma di Superamento dell'Esame di Stato Conclusivo dei Corsi di Istruzione Secondario Superiore (liceo classico/scientifico / linguistico/scienze umane)	Average overall school grade of 7 Esame di Stato score of at least 80
Kazakhstan	Nazarbayev Intellectual Schools (NIS) Grade 12 Certificate	Grades AAB in academic subjects
Kosovo	Diplomë për Kryerjen e Shkollës së Mesme të Lartë (Matura)	Average overall grade of 4
Latvia	Atestāts par vispārējo vidējo izglītību	Average overall grade of 7 (70% for state examinations)

NIS winner of Wenhui Award 2019



Nazarbayev Intellectual Schools (NIS) became one of the two laureates. This is the first time Kazakhstan won the UNESCO prize in education

(UNESCO, 2019)

Winner of Wenhui Award 2019 for “Promoting University and School Partnerships in Advancing the Education 2030 Agenda”

The Prize was awarded to NIS, as an innovative Kazakhstani schools for successful partnerships between universities and schools that promote quality education and lifelong learning – in preparing children and youth for life, work and global citizenship.



Research on students' attainment at universities

Aim:

To monitor academic progress and attainment of NIS graduates who study at Kazakhstani universities under accelerated 3-year and overseas universities recognizing NIS-Programme

Objective:

- to find out to what extent NIS programme prepares students for higher educational institutions
- to explore perspectives of NIS graduates, university teachers and compare with attainment records.

Target group:

- enrolled to accelerated 3-year graduates in Kazakhstan
- enrolled to Bachelor programme
- enrolled to Nazarbayev University
- enrolled to far and near abroad universities

Period: from 2018- in progress

Key findings

Some preliminary key findings:

- NIS high school programs and first year university programs are often similar (75% respondents)
- high English language level among graduates
- Readiness and ability for self-study
- Developed skills to present projects and materials
- Critical thinking skills
- Aims to achieve high results (competitiveness)
- Responsibility and hardworking

Areas for improvement:

- Planning and time management
- Calculus and advanced math (17% of respondents)

Universities and NIS graduates feedback

The partnership between PolyU and NIS started in 2014, as PolyU began promoting our undergraduate programmes in Kazakhstan. During the time, PolyU is looking to continue diversifying our international students' bodies while aiming to reach out to more quality students. NIS, as the best school system in Kazakhstan, naturally became our target audience. Over the years, we have received many high-calibre NIS applicants, applying to our world-renowned undergraduate programmes in engineering, science, business among others. Many of them would become our entry scholarship recipients (amount ranging from 50% to 135% tuition fee waiver), and continued to excel in their PolyU's study.

PolyU

NIS students who have come to CityU are high achievers, and nearly all of them have been awarded an entrance scholarship based on their outstanding academic performances. They have proven that they can continue to excel in the university setting, and engage in various activities proactively.

CityU

Features of the educational process at NIS, where learning is conducted according to integrated educational programmes that have a high level of comparability with the internationally recognized A-level and IB Diploma programs, provide an in-depth study of subjects of the natural and mathematical cycle, which made it possible to recognize the results of graduates by our university and complete the educational programs of bachelor's degree in an accelerated mode..

Seidualieva Assel, graduate of NIS, 1-year student, Al-Farabi Kazakh National University

Reduction of length of study (min.2,5 years), Individual learning trajectory, the possibility of choosing a smaller number of disciplines per semester, convenience in choosing minor programs, early terms of academic mobility.

Jumasseitova A.K., Vice-Rector of Academic Affairs, KBTU

Recalculation of 9 disciplines. She started studying difficult disciplines, didn't waste time on the disciplines and material that was learned at school, passed internship and pre-diploma practice earlier, more time to write diploma work.

Amangeldy Ilana, graduate of NIS PhM Nur-Sultan Accelerated programme, KBTU, Faculty of Information technology, Automation and Control

Further cooperation for smooth transition in Kazakhstan

- Universities offer online courses with ECTS credit to transfer
- Providing opportunities for NIS Graduates

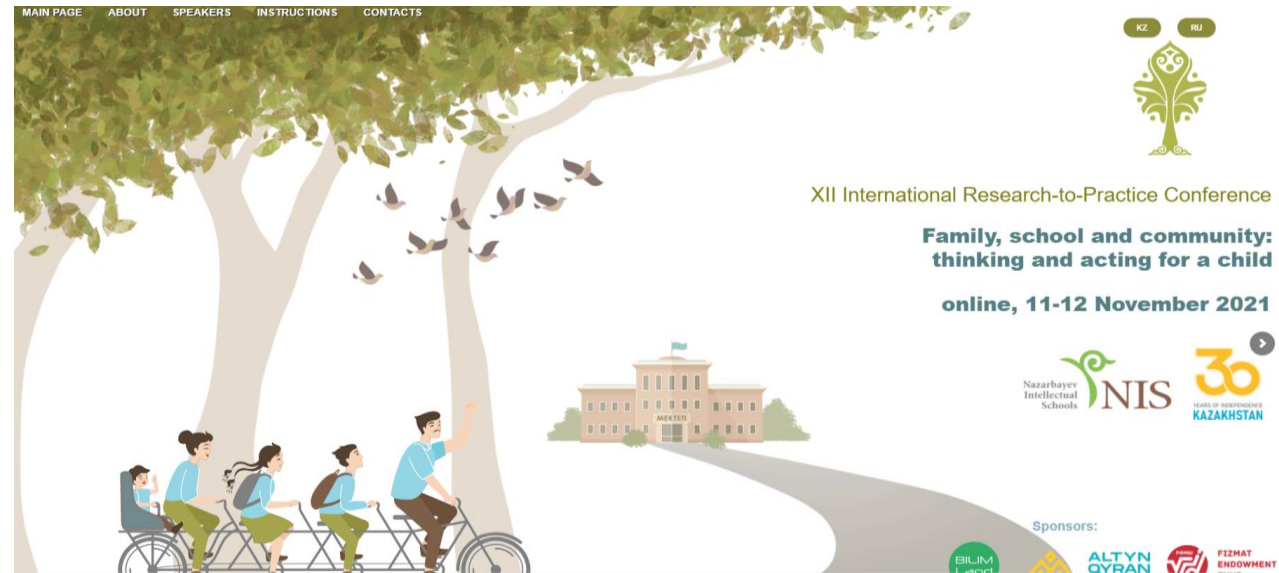
№	University	Description
1	Kazakh-British National University	30 online courses
2	International IT University	Course “Information technologies”
3	Al-Farabi Kazakh National University	11 free online courses
4	M. Narikbayev KAZGUU University	8 online course «Bachelor for high school students»
5	Astana it University	Recognition and transfer credits (Coursera, EdX и др.)
6	OpenEdu (Russia)	Online courses of leading universities in Russia



NIS International Research-to-Practice conference

- October –December 2020 – Intellectual Podcast
- 24-25 October 2019 – Teachers changing the world of schooling
- 25-26 October 2018 – Next Generation schools
- 26-27 October 2017 – Values, Wellbeing and Innovation for the Future of Education
- 27-28 October 2016 – Taking Change to Scale in Education
- 22–23 October 2015 – Education: Research and Sustainable Development
- 23-24 October 2014 – Education Policy, Practice and Research
- 3-15 November 2013 – Excellence and Leadership in Education
- 4-5 December 2012 – Professional Development of Teachers
- 15-16 November 2012 – School Leadership and Excellence
- 14 June 2012 – Secondary Education Curriculum: Traditions and Changes
- 6 December 2011 – Teacher Professional Development: Traditions and Changes

- XII International Research-to-Practice conference
- Session “Empowering graduates through recognition of educational credentials”



THANK YOU!

For further questions, please contact: www.nis.edu.kz
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